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Row Labels	JCECEB ANM GNM Set 13 – Batch 2 – 12-Dec-21
Change of Key	0
Multiple Answer	0
No Change	150
Nullified	0
Grand Total (Unique Questions Claimed)	150



1) Which of the following can be produced in nuclear fission? 1) नाभिकीय विखंडन के दौरान निम्नलिखित में से किसे उत्पादित किया जा सकता है?

A) Neutrons

B) Electrons

C) Deuterons

D) Protons

A) न्यूट्रॉन

B) इलेक्ट्रॉन

C) ड्यूट्रॉन

D) प्रोटॉन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822665

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: None of These

Final Answer: A

Explanation:

In nuclear fission neutrons get produced.

Reference Concept of physics HC Verma Volume 2nd

Conclusion:

The final answer is option A. There is no change in the answer key



2) Which of the following gases is a primary constituent of both natural gas and biogas?

- A) Oxygen
- B) Hydrogen
- C) Methane
- D) Nitrogen

2) निम्नलिखित में से कौन-सी गैस प्राकृतिक गैस और बायोगैस दोनों का प्राथमिक घटक है?

- A) ऑक्सीजन
- B) हाइड्रोजन
- C) मीथेन
- D) नाइट्रोजन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822655

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: D

Final Answer: C

Explanation:

Methane is primary constituent of both natural gas and biogas.

Reference: NCERT Science book.

Conclusion:

The final answer is option C. There is no change in the answer key

3) Which of the following types of mirror is used as rear view mirror in automobiles or vehicles?

A) Plano concave mirror

B) Convex mirror

C) Concave mirror

D) Plane mirror

3) निम्नलिखित में से किस प्रकार के दर्पण का उपयोग ऑटोमोबाइल या वाहनों में पीछे का दृश्य देखने वाले दर्पण के रूप में किया जाता है?

A) समतल-उत्तल दर्पण

B) उत्तल दर्पण

C) अवतल दर्पण

D) समतल दर्पण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822642

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation:

Convex mirror is used for rear view mirror in automobiles or vehicles.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option B. There is no change in the answer key

4) The SI derived unit of power, defined as one joule of energy per second:

- A) Watt
- B) Pascal
- C) Voltage
- D) Ampere

4) शक्ति का वह SI व्युत्पन्न मात्रक कौन-सा है जिसे प्रति सेकंड एक जूल ऊर्जा के रूप में परिभाषित किया जाता है?

- A) वाट
- B) पास्कल
- C) वोल्टता
- D) ऐम्पियर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822648

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

SI unit of power is Watt which is defined in question.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option A. There is no change in the answer key

5) The slope of V-I graph for a conductor represents its

- A) Voltage
- B) Conductance
- C) Resistivity
- D) Resistance

5) किसी चालक के लिए V-I ग्राफ का ढाल क्या प्रदर्शित करता है?

- A) वोल्टता
- B) चालन
- C) प्रतिरोधकता
- D) प्रतिरोध

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822650

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

According to ohms law $V=IR$ so V-I graph will give R.

Reference: Concept of physics volume 2nd HC Verma

Conclusion:

The final answer is option D. There is no change in the answer key

6) The phenomenon of scattering of light in gases and liquids was explained by

- A) S. Radhakrishnan
- B) C. V. Raman**
- C) J. C. Bose
- D) H. J. Bhabha

6) गैसों और द्रवों में प्रकाश के प्रकीर्णन की परिघटना को निम्नलिखित में से किसके द्वारा समझाया गया था?

- A) एस. राधाकृष्णन
- B) सी. वी. रमन**
- C) जे. सी. बोस
- D) एच. जे. भाभा

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822644

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation:

The phenomenon of scattering of light in gases and liquids was explained by C V Raman .

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option B. There is no change in the answer key

7) Two bulbs A and B rated 80 W 200 V and 50W 200V are connected in parallel across 200 V supply. Current through bulb A is

- A) 0.4 amp
B) 2.5 amp
C) 0.45 amp
D) 0.54 amp

7) 80 W 200 V और 50W 200V रेटिंग वाले दो बल्ब A और B, 200 V की आपूर्ति से समांतर क्रम संयोजन में जुड़े हुए हैं। बल्ब A के माध्यम से प्रवाहित होने वाली धारा का मान है:

- A) 0.4 amp
B) 2.5 amp
C) 0.45 amp
D) 0.54 amp

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822652

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

Resistance of any bulb with rated power and voltage can be given by $R = \frac{V^2}{P}$

$$\text{So } R_A = \frac{200^2}{80} \text{ and } I_A = \frac{V}{R_A} = \frac{200}{\frac{200^2}{80}} \times 80 = .4A$$

Reference: Concept of physics HC Verma Volume 2nd

Conclusion:

The final answer is option A. There is no change in the answer key

8) The refractive index of glass with respect to air is 2. The critical angle for the glass-air interface is

- A) 30 °
B) 45 °
C) 60 °
D) 0 °
- A) 30 °
B) 45 °
C) 60 °
D) 0 °

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822638

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

$$\theta_c = \sin^{-1} \frac{\mu_1}{\mu_2} = \sin^{-1} \frac{1}{2} = 30^\circ$$

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option A. There is no change in the answer key

- 9) A mirror always forms a virtual, erect and diminished image of a real object. It must be a
- 9) कोई दर्पण हमेशा एक वास्तविक वस्तु का आभासी, सीधा और छोटा प्रतिबिंब बनाता है। यह निम्न में से क्या होना चाहिए?
- A) concave mirror
B) plano-convex mirror
C) convex mirror
D) plane mirror
- A) अवतल दर्पण
B) समतल-उत्तल दर्पण
C) उत्तल दर्पण
D) समतल दर्पण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822640

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

Concave mirror always forms a virtual, erect and diminished image of a real object.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option A. There is no change in the answer key

10) Where will be image formed when an object is placed at infinity from a convex lens?
(Symbols and notations carry their usual meaning)

- A) between C and F
B) at F
 C) beyond C
 D) at C

10) जब किसी वस्तु को उत्तल लेंस से अनंत दूरी पर रखा जाता है तो तब उस वस्तु का प्रतिबिंब कहाँ बनेगा?
(प्रतीक और अंकन अपने सामान्य अर्थ दर्शाते हैं)

- A) C और F के बीच
B) F पर
 C) C के पीछे
 D) C पर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822662

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation:

For mirror $\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$ in case of object at infinity $u = \infty$ so $\frac{1}{v} + \frac{1}{\infty} = \frac{1}{f}$ or $f=v$

So image will be at focus.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option B. There is no change in the answer key

11) What is Snell's Law?

- A) Ratio of angle of reflection to angle of incidence
- B) Ratio of sine of angle of refraction to sine of angle of incidence
- C) Ratio of sine of angle of incidence to sine of angle of refraction
- D) Ratio of angle of incidence to angle of refraction

11) स्नेल का नियम क्या है?

- A) परावर्तन कोण और आपतन कोण का अनुपात
- B) अपवर्तन कोण की ज्या और आपतन कोण की ज्या का अनुपात
- C) आपतन कोण की ज्या और अपवर्तन कोण की ज्या का अनुपात
- D) आपतन कोण और अपवर्तन कोण का अनुपात

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822661

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: None of These

Final Answer: C

Explanation:

$\frac{\sin(i)}{\sin(r)} = \frac{\mu_1}{\mu_2}$ here i is angle of incidence and r is angle of refraction which is given by snell's law.

Reference: Concept of physics HC Verma volume 1st

Conclusion:

The final answer is option C. There is no change in the answer key

12) Which of the following is the energy efficient device for producing light? 12) निम्नलिखित में से कौन-सा उपकरण प्रकाश उत्पन्न करने के लिए एक ऊर्जा दक्ष उपकरण है?

- A) DLF
B) FCL
C) LPG
D) CFL

- A) DLF
B) FCL
C) LPG
D) CFL

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822664

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

Compact fluorescent lamp (CFL) is the energy efficient device for producing light.

Reference: Concept of physics HC Verma Volume 2nd

Conclusion:

The final answer is option D. There is no change in the answer key

13) The main cause for sparkling brilliance of diamond is

- A) refraction
- B) polarisation
- C) total internal reflection**
- D) refractive index

- 13) हीरे की चमकदार चमक का मुख्य कारण है:
- A) अपवर्तन
 - B) ध्रुवीकरण
 - C) पूर्ण आंतरिक परावर्तन**
 - D) अपवर्तनांक

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822639

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation:

The main cause for sparkling brilliance of diamond is total internal reflection.

Reference: Concept of physics HC Verma volume 1st

Conclusion:

The final answer is option C. There is no change in the answer key

14) As per Ministry of New and Renewable Energy, a Micro Hydro Project has a Station capacity of (in kW)

- A) 101 to 2000
B) 2001 to 25000
C) 25001 to 35000
D) 0- 100

14) नवीन और नवीकरणीय ऊर्जा मंत्रालय के अनुसार, एक माइक्रो हाइड्रो प्रोजेक्ट की स्टेशन क्षमता (किलोवाट(kW) में) कितनी होती है?

- A) 101 से 2000 तक
B) 2001 से 25000 तक
C) 25001 से 35000 तक
D) 0 to100 तक

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822657

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

As per Ministry of New and Renewable Energy, a Micro Hydro Project has a Station capacity of 0-100kW.

Reference: NCERT Science book.

Conclusion:

The final answer is option D. There is no change in the answer key

15) Which of the following is a chief source of geo thermal energy?

- A) Rivers
- B) Energy spot
- C) Vital spots
- D) Steam**

15) निम्नलिखित में से कौन-सा भू-तापीय ऊर्जा का मुख्य स्रोत है?

- A) नदियाँ
- B) ऊर्जा क्षेत्र
- C) महत्वपूर्ण क्षेत्र
- D) भाप**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822666

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: None of These

Final Answer: D

Explanation:

Steam is the chief source of geo thermal energy.

Reference: NCERT science book.

Conclusion:

The final answer is option D. There is no change in the answer key

16) Why the depth of bucket filled with water seems to be less than its actual depth? 16) जल से भरी बाल्टी की गहराई उसकी वास्तविक गहराई से कम क्यों प्रतीत होती है?

- A) Due to Colour of bucket
- B) Due to Colour of water
- C) Due to Reflection
- D) Due to Refraction

- A) बाल्टी के रंग के कारण
- B) जल के रंग के कारण
- C) परावर्तन के कारण
- D) अपवर्तन के कारण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822659

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

As refractive index of water is more than the air so due to refraction apparent becomes smaller than actual length.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option D. There is no change in the answer key

17) LPG (propane) is used as a fuel for many residential, commercial and agricultural heat applications, including cooking, hot water systems and heating. LPG stands for

- A) Liquid Pipe Gas
B) Low Pressure Gas
C) Liquefied Petroleum Gas
D) Liquid Pressure Gas

17) LPG (प्रोपेन) का उपयोग कई आवासीय, वाणिज्यिक और कृषि ऊष्मीय अनुप्रयोगों के लिए ईंधन के रूप में किया जाता है, जिसमें खाना पकाना, तप्त जल प्रणाली और किसी वस्तु को गर्म करना शामिल हैं। LPG का पूर्ण रूप है:

- A) लिक्विड पाइप गैस
B) लो प्रेशर गैस
C) लिक्वीफाइड पेट्रोलियम गैस
D) लिक्विड प्रेशर गैस

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822656

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

LPG stands for Liquefied petroleum gas.

Reference: NCERT Science book.

Conclusion:

The final answer is option C. There is no change in the answer key

18) In which of the following isotopes of uranium or plutonium, fission is NOT caused by low-energy (slow, or thermal) neutrons?

- A) Pu-239
- B) U-235
- C) Pu-238
- D) U-233

18) यूरेनियम या प्लूटोनियम के निम्नलिखित में से किस समस्थानिक में, विखंडन कम ऊर्जा (धीमी, या तापीय) के न्यूट्रॉनों के कारण नहीं होता है?

- A) Pu-239
- B) U-235
- C) Pu-238
- D) U-233

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822653

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation:

As Pu-238 is highly stable element so fission by low energy neutrons is not possible.

Reference: NCERT Science book.

Conclusion:

The final answer is option C. There is no change in the answer key

19) An electron of mass 8.0×10^{-31} kg is moving with a speed of 2×10^7 m/s. The kinetic energy of this electron in eV is

- A) 10^5 eV
B) 10^3 eV
 C) 10^2 eV
 D) 10^4 eV

19) 8.0×10^{-31} kg द्रव्यमान का एक इलेक्ट्रॉन 2×10^7 m/s की चाल से गति कर रहा है। eV में इस इलेक्ट्रॉन की गतिज ऊर्जा ज्ञात कीजिए।

- A) 10^5 eV
B) 10^3 eV
 C) 10^2 eV
 D) 10^4 eV

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822658

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

$$KE = \frac{1}{2}mv^2 = \frac{1}{2} \times 8.0 \times 10^{-31} \times (2.0 \times 10^7)^2$$

In eV $KE = \frac{1}{2} \times 8.0 \times 10^{-31} \times (2.0 \times 10^7)^2 / (1.6 \times 10^{-19}) = 10^3 eV$

Reference: Concept of physics HC Verma volume 1st

Conclusion:

The final answer is option B. There is no change in the answer key

20) A light ray incident at an angle of 50° on one face of the prism suffers minimum deviation of 25° . Find angle of prism.

- A) 45°
 B) 60°
 C) 55°
D) 75°

20) किसी प्रिज्म के एक फलक पर 50° के कोण से आपतित प्रकाश किरण 25° के कोण से न्यूनतम विचलित होती है। प्रिज्म का कोण ज्ञात कीजिए।

- A) 45°
 B) 60°
 C) 55°
D) 75°

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822647

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

We have $2i = A + \delta_m$ so $A = 100 - 25 = 75^\circ$

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option D. There is no change in the answer key

21) What is the function of liquid filled in the space between eye lens and retina?

- A) To provide the eye its density
 B) To provide the eye its refraction
 C) To provide the eye its beauty
D) To provide the eye its form and the shape

21) नेत्र लेंस और दृष्टिपटल के बीच में भरे द्रव का क्या कार्य है?

- A) नेत्र को उसका घनत्व प्रदान करने के लिए
 B) नेत्र को उसका अपवर्तन प्रदान करने के लिए
 C) नेत्र को उसकी सुंदरता प्रदान करने के लिए
D) नेत्र को उसका स्वरूप और आकृति प्रदान करने के लिए

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822667

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

The function of liquid filled in the space between eye lens and retina is to provide the eye its form and the shape

Reference: Concept of physics HC Verma

Conclusion:

The final answer is option D. There is no change in the answer key

22) A small current is passed through a wire of length 10 m and uniform cross section $5.0 \times 10^{-7} \text{ m}^2$, and its resistance is measured to be 2.5Ω . Resistivity of the wire is

- A) $12.5 \times 10^{-7} \Omega\text{m}$
 B) $0.125 \times 10^{-7} \Omega\text{m}$
 C) $125 \times 10^{-7} \Omega\text{m}$
 D) $1.25 \times 10^{-7} \Omega\text{m}$

22) 10 m लंबे और एकसमान अनुप्रस्थ काट $5.0 \times 10^{-7} \text{ m}^2$ वाले तार में लघु धारा को प्रवाहित किया जाता है, और 2.5Ω . तब इसका प्रतिरोध 2.5Ω मापा जाता है। तार की प्रतिरोधकता ज्ञात कीजिए।

- A) $12.5 \times 10^{-7} \Omega\text{m}$
 B) $0.125 \times 10^{-7} \Omega\text{m}$
 C) $125 \times 10^{-7} \Omega\text{m}$
 D) $1.25 \times 10^{-7} \Omega\text{m}$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822649

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

We have $R = \rho \frac{l}{A}$ putting the values from question resistivity $\rho = \frac{RA}{l} = 2.5 \times 5.0 \times \frac{10^{-7}}{10} = 1.25 \times 10^{-7} \Omega\text{m}$

Reference: Concept of physics HC Verma Volume 2nd

Conclusion:

The final answer is option D. There is no change in the answer key

23) A concave mirror has a focal length of 30 cm. 23) किसी अवतल दर्पण की फोकस दूरी 30 cm है। यदि कोई व्यक्ति दर्पण में अपना चेहरा देखना चाहता है, तो व्यक्ति को दर्पण से कितनी दूरी पर खड़ा होना चाहिए?

If a person wants to see his face in the mirror, at what distance from the mirror should the person stand?

A) 25 cm

B) 40 cm

C) 35 cm

D) 30 cm

A) 25 cm

B) 40 cm

C) 35 cm

D) 30 cm

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822641

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

The real image formed by a concave mirror is magnified if the object is placed between the focus and pole so 25 is correct.

Reference: Concept of physics HC verma Volume 1st

Conclusion:

The final answer is option A. There is no change in the answer key

24) The speed at which most medium sized wind turbines turn themselves off in winds to reduce wear and tear is

- A) 55 m/s
- B) 25 m/s**
- C) 35 m/s
- D) 45 m/s

24) वायु की वह चाल ज्ञात कीजिए जिसमें ज्यादातर मध्यम आकार की पवन टरबाइन टूट-फूट की क्षति को कम करने के लिए तेज वायु में खुद को बंद कर लेती है।

- A) 55 m/s
- B) 25 m/s**
- C) 35 m/s
- D) 45 m/s

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822654

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: D

Final Answer: B

Explanation:

The speed at which most medium sized wind turbines turn themselves off in winds to reduce wear and tear is 25m/s.

Reference: NCERT Science book.

Conclusion:

The final answer is option B. There is no change in the answer key

25) The sky looks blue on a clear sunny day because of

25) साफ धूप वाले दिनों में निम्नलिखित में से किसके कारण आकाश नीला दिखाई देता है?

- A) refraction of light
- B) scattering of light**
- C) dispersion of light
- D) reflection of light

- A) प्रकाश का अपवर्तन
- B) प्रकाश का प्रकीर्णन**
- C) प्रकाश का परिक्षेपण
- D) प्रकाश का परावर्तन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822646

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

The sky looks blue on a clear sunny day because of scattering of light.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option B. There is no change in the answer key

26) The procedure involving the fitting of a series of rigid contact lenses to reshape the cornea is called as

- A) Laser epithelial keratomileusis
- B) Laser in situ keratomileusis
- C) Photorefractive keratectomy
- D) Orthokeratology

26) कॉर्निया को पुनः आकार देने के लिए दृढ़ संपर्क लेंस की एक श्रेणी को स्थापित करने की प्रक्रिया को क्या कहा जाता है?

- A) लेजर एपिथेलियल केराटोमिलेसिस
- B) लेजर इन-सिटू केराटोमिलेसिस
- C) फोटोरिफ्रेक्टिव केराटेक्टोमी
- D) ऑर्थोकेराटोलॉजी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822643

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

The procedure involving the fitting of a series of rigid contact lenses to reshape the cornea is called orthokeratology.

Reference: NCERT Science book.

Conclusion:

The final answer is option D. There is no change in the answer key

27) What will happen when a ray of light is incident normally on a mirror? 27) क्या होगा जब प्रकाश किरण दर्पण पर अभिलंबवत आपतित होती है?

- A) It is reflected back at the angle of 45 degree A) वह 45 डिग्री के कोण पर वापस परावर्तित होता है
 B) It is reflected back at the angle 60 degree B) वह 60 डिग्री के कोण पर वापस परावर्तित होता है
 C) It is reflected back at the angle of 30 degree C) वह 30 डिग्री के कोण पर वापस परावर्तित होता है
D) It is reflected back along the same path D) वह उसी पथ के अनुदिश वापस परावर्तित होता है

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822660

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

When a ray of light is incident normally on a mirror its reflect back along the same path.

Reference: Concept of physics HC Verma volume 1st

Conclusion:

The final answer is option D. There is no change in the answer key

28) Which of the following is property of good fuels? 28) निम्नलिखित में से कौन-सा एक अच्छे ईंधन का गुणधर्म है?

- A) High calorific value and low ignition temperature
 B) Low calorific value and Medium ignition temperature
 C) High calorific value and high ignition temperature
 D) High calorific value and Medium ignition temperature
- A) उच्च ऊष्मीय मान और कम ज्वलन तापमान
 B) निम्न ऊष्मीय मान और मध्यम ज्वलन तापमान
 C) उच्च ऊष्मीय मान और उच्च ज्वलन तापमान
 D) उच्च ऊष्मीय मान और मध्यम ज्वलन तापमान

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822663

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation:

A good should have high calorific value and Medium ignition temperature.

Reference: NCERT Science book.

Conclusion:

The final answer is option D. There is no change in the answer key

29) For nearby objects, eye lens is contracted and squeezed into a more convex shape by

- A) fovea
- B) pupil
- C) ciliary muscles
- D) sclera

29) निकट की वस्तुओं के लिए, नेत्र लेंस संकुचित होता है और उसे निम्नलिखित में से किसके द्वारा अधिक उत्तल आकृति में निष्पीडित किया जाता है?

- A) गर्तिका
- B) नेत्र की पुतली
- C) पक्ष्माभी पेशियाँ
- D) श्वेतपटल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822645

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

Ciliary muscles of eye lenses adjust its focal length according to distance of an object near or far.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option C. There is no change in the answer key

30) Joules law of heating effect of current states that heat produced (H) in a conductor of resistance (R) when a current (I) flows through it for time (t) is given by

A) $H = Irt$

B) $H = IR/t$

C) $H = IR^2t$

D) $H = I^2Rt$

30) धारा के ऊष्मीय प्रभाव का जूल नियम कहता है कि प्रतिरोध (R) के चालक में उत्पन्न ऊष्मा (H) को समय (t) के लिए प्रवाहित होने वाली धारा (I) को निम्नलिखित में से किस व्यंजक द्वारा व्यक्त किया जाता है?

A) $H = Irt$

B) $H = IR/t$

C) $H = IR^2t$

D) $H = I^2Rt$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822651

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation:

The above is a well-established formula which derivation can be seen in the below reference.

Reference: Concept of physics HC Verma Volume 2nd

Conclusion:

The final answer is option D. There is no change in the answer key

31) According to the vital force theory, "Carbon compounds could be produced only under the influence of some mysterious "vital force" of unknown nature, present only in living organisms". Who proposed it?

A) Kolbe

B) Berzelius

C) Rutherford

D) Fredrick wooler

A) कोल्बे

B) बर्ज़ेलियस

C) रदरफोर्ड

D) फ्रेडरिक वूलर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822199

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Berzilius, a Swedish chemist proposed that a 'vital force' was responsible for the formation of organic compounds.

Reference- <https://ncert.nic.in/textbook/pdf/kech205.pdf> Page no-1/39

Conclusion: The final answer is option B. There is no change in the answer key

- 32) Gastric juice secreted in stomach contains 32) उदर में स्रावित जठर रस में होता है
- (i) acidic Ph (i) अम्लीय pH
- (ii) basic pH (ii) क्षारीय pH
- (iii) neutral pH (iii) उदासीन pH

Choose the CORRECT option from the options given.

- A) (iii) only
- B) (i) only**
- C) (ii) only
- D) (ii) and (iii) only

- A) केवल (iii)
- B) केवल (i)**
- C) केवल (ii)
- D) (ii) और (iii) दोनों

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822213

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation: Gastric juice contains HCl which renders the gastric juice acidic pH. pH of Gastric juice varies between 1.0-2.0.

Reference- <https://www.biologyonline.com/dictionary/gastric-juice>

Conclusion: The final answer is option B. There is no change in the answer key

33) Gasol is a mixture of

- A) Alcohol and Diesel
- B) Alcohol and Petrol**
- C) Petrol and Kerosene
- D) Alcohol and Kerosene

33) गैसोल निम्नलिखित में से किसका उदाहरण है?

- A) ऐल्केहॉल और डीजल
- B) ऐल्केहॉल और पेट्रोल**
- C) पेट्रोल और मिट्टी का तेल
- D) ऐल्केहॉल और मिट्टी का तेल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822198

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Gasol is a mixture of petrol and alcohol.

Reference- <https://www.doubtnut.com/pcmb-questions/what-is-gasol--34879>

Conclusion: The final answer is option B. There is no change in the answer key

34) The Hall-Heroult method of electrolysis is used for isolation of

- A) Aluminium
- B) Gold
- C) Copper
- D) Silver

34) विद्युत-अपघटन की हॉल-हेरॉल्ट विधि का उपयोग निम्नलिखित में से किसके पृथक्करण के लिए किया जाता है?

- A) एल्युमिनियम
- B) सोना
- C) कॉपर
- D) चाँदी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822209

Number of Claims: 2

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation: In the Hall-Héroult smelting process, a nearly pure aluminum oxide compound called alumina is dissolved at 950 °C (1,750 °F) in a molten electrolyte composed of aluminum, sodium, and fluorine; this is electrolyzed to give aluminum metal at the cathode and oxygen gas at the anode.

Reference- <https://www.britannica.com/technology/Hall-Heroult-process>

Conclusion: The final answer is option A. There is no change in the answer key

35) Methyl orange indicator gives which of the following colour in an acid solution?

- A) Pink
- B) Red**
- C) Yellow
- D) Orange

35) मेथिल ऑरेंज सूचक अम्लीय विलयन में निम्नलिखित में से कौन-सा रंग देता है?

- A) गुलाबी
- B) लाल**
- C) पीला
- D) नारंगी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822216

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Methyl orange gives red colour in acidic medium.

Reference- [https://testbook.com/question-answer/methyl-orange-indicator-gives-yellow-color-in-which--](https://testbook.com/question-answer/methyl-orange-indicator-gives-yellow-color-in-which--5f030f0765c0ee13b3c8aeb2#:~:text=Methyl%20orange%20indicator%20gives%20red,color%20in%20a%20basic%20solution.)

[5f030f0765c0ee13b3c8aeb2#:~:text=Methyl%20orange%20indicator%20gives%20red,color%20in%20a%20basic%20solution.](https://testbook.com/question-answer/methyl-orange-indicator-gives-yellow-color-in-which--5f030f0765c0ee13b3c8aeb2#:~:text=Methyl%20orange%20indicator%20gives%20red,color%20in%20a%20basic%20solution.)

Conclusion: The final answer is option B. There is no change in the answer key

36) When crystals of copper sulphate are heated it turns into

- A) blue colour
- B) white colour**
- C) pink colour
- D) green colour

36) जब कॉपर सल्फेट के क्रिस्टलों को गर्म किया जाता है, तो ये परिवर्तित हो जाते हैं

- A) नीले रंग में
- B) सफेद रंग में**
- C) गुलाबी रंग
- D) हरे रंग में

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822217

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: D

Final Answer: B

Explanation: Hydrated copper sulphate is blue coloured crystals. On heating, blue coloured copper sulphate crystals become white. Heating turns crystals of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ into anhydrous CuSO_4 crystals which are colourless.

Reference- <https://www.vedantu.com/question-answer/happens-when-copper-sulphate-crystals-are-heated-class-11-chemistry-cbse-60a343b76f51e47462f1c1a2>

Conclusion: The final answer is option B. There is no change in the answer key

37) Aspirin is prepared by using

- A) Salicylic acid
- B) Sulphuric acid
- C) Acetic acid
- D) Hydrochloric acid

37) ऐस्पिरिन को निम्नलिखित द्वारा तैयार किया जाता है

- A) सैलिसिलिक अम्ल
- B) सल्फ्यूरिक अम्ल
- C) ऐसीटिक अम्ल
- D) हाइड्रोक्लोरिक अम्ल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822218

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation: Aspirin is prepared by chemical synthesis from salicylic acid, through acetylation with acetic anhydride.

Reference- <https://www.aspirin-foundation.com/history/chemistry/>

Conclusion: The final answer is option A. There is no change in the answer key

38) Aluminosilicate minerals are composed of Aluminium, Silicon and

- A) Carbon
- B) Oxygen**
- C) Nitrogen
- D) Hydrogen

38) एल्युमिनोसिलिकेट खनिज, एल्यूमिनियम, सिलिकॉन और निम्नलिखित में से किससे बना खनिज है?

- A) कार्बन
- B) ऑक्सीजन**
- C) नाइट्रोजन
- D) हाइड्रोजन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822208

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: None of These

Final Answer: B

Explanation: A zeolite is a hydrated aluminosilicate mineral with a structure characterized by a framework of linked tetrahedra, each consisting of four oxygen atoms surrounding a silicon or aluminium cation.

Reference- <https://www.sciencedirect.com/topics/chemistry/aluminosilicate-mineral>

Conclusion: The final answer is option B. There is no change in the answer key

39) The litmus solution is extracted from a plant which is a
39) लिटमस विलयन एक पादप से प्राप्त किया जाता है, जो कि एक

- A) brown dye
B) purple dye
C) yellow dye
D) green dye

- A) भूरा रंजक है
B) बैंगनी रंजक है
C) पीला रंजक है
D) हरा रंजक है

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822211

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Litmus solution is a purple dye, which is extracted from lichens, Thallophyta. It is an indicator.

Reference- <https://testbook.com/question-answer/litmus-can-be-extracted-from--5fa3bc324e4af1ed31f41e18#:~:text=The%20correct%20answer%20is%20Lichens.&text=Litmus%20solution%20is%20a%20purple,commonly%20used%20as%20an%20indicator.>

Conclusion: The final answer is option B. There is no change in the answer key

40) Rancidity in oils and fats is due to

- A) Reduction
- B) Oxidation**
- C) Combination reaction
- D) Substitution reaction

40) तेल और वसा में विकृतगंधिता निम्नलिखित में से किसके कारण होती है?

- A) अपचयन
- B) ऑक्सीकरण**
- C) संयोजन अभिक्रिया
- D) प्रतिस्थापन अभिक्रिया

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822194

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation: Rancidity, condition produced by aerial oxidation of unsaturated fat present in foods and other products, marked by unpleasant odour or flavour.

Reference- <https://www.britannica.com/science/rancidity>

Conclusion: The final answer is option B. There is no change in the answer key

41) Identify the following statements as TRUE or FALSE. 41) निम्नलिखित कथनों की सत्य या असत्य के रूप में पहचान कीजिए।

(i)Hydrophilic means "water loving"

(i) जलरागी का अर्थ है "जल से स्नेह करने वाला"

(ii)Hydrophobic means "water hating"

(ii) जलविरागी का अर्थ है "जल से नफरत करने वाला"

(iii)Coke is obtained by destructive distillation of coal

(iii) कोयले के हानिकारक आसवन द्वारा कोक प्राप्त किया जाता है

A) (i)- TRUE; (ii) - FALSE; (iii) - TRUE

A) (i)- सत्य; (ii) - असत्य; (iii) - सत्य

B) (i)- FALSE; (ii) - TRUE; (iii) - TRUE

B) (i)- असत्य; (ii) - सत्य; (iii) - सत्य

C) (i)- TRUE; (ii) - TRUE; (iii) - FALSE

C) (i)- सत्य; (ii) - सत्य; (iii) - असत्य

D) (i)- TRUE; (ii) - TRUE; (iii) - TRUE

D) (i)- सत्य; (ii) - सत्य; (iii) - सत्य

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822202

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: Coke is obtained from destructive distillation of coal, and charcoal from destructive distillation of substance other than coal (like wood and animal bones), are both the same thing, with charcoal having higher impurity than coke. Hydrophilic means water loving and hydrophobic means water-hating.

Reference- <https://chemistry.stackexchange.com/questions/156222/are-coke-solid-fuel-from-coal-and-charcoal-same-thing-obtained-from-different>

Conclusion: The final answer is option D. There is no change in the answer key

42) Potassium ferricyanide is an example for

- A) Gel
- B) Acid
- C) Base
- D) Salt

42) पोटैशियम फेरिसायनाइड निम्नलिखित में से किसका उदाहरण है?

- A) जेल
- B) अम्ल
- C) क्षार
- D) लवण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822215

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: Potassium hexacyanoferrate(3-) is a potassium salt and a hexacyanoferrate(3-) salt.

Reference- <https://pubchem.ncbi.nlm.nih.gov/compound/Potassium-ferricyanide>

Conclusion: The final answer is option D. There is no change in the answer key

43) Pure ethanol (Rectified spirit) acts as

- A) rehydrating agent
- B) carboxylating agent
- C) decarboxylating agent
- D) dehydrating agent**

43) शुद्ध ऐथेनॉल (परिशोधित स्पिरिट) निम्नलिखित में से किसके रूप में कार्य करता है?

- A) पुनर्जलीकरण अभिकर्मक
- B) कार्बोक्जिलीकरण अभिकर्मक
- C) विकार्बोक्जिलीकरण अभिकर्मक
- D) निर्जलीकरण अभिकर्मक**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822197

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: Ethanol acts as an osmolyte or dehydrating agent that disrupts the osmotic balance across cell membranes.

Reference- <https://pubchem.ncbi.nlm.nih.gov/compound/Ethanol#section=Mechanism-of-Action>

Conclusion: The final answer is option D. There is no change in the answer key

44) Soft and pure iron can be made hard and strong by mixing of

- A) Hydrogen
- B) Helium
- C) Nitrogen
- D) Carbon

44) मृदु और शुद्ध लोहे को निम्नलिखित में से किसके मिश्रण से कठोर और सुदृढ़ बनाया जा सकता है?

- A) हाइड्रोजन
- B) हीलियम
- C) नाइट्रोजन
- D) कार्बन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822207

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: Pure iron and steel are an inherently soft materials. They are easily formed and quite ductile. The addition of carbon into the melt furnace imparts rigidity to the iron crystal structure resulting in a stronger although more brittle material.

Reference- <https://www.sciencedirect.com/topics/engineering/pure-iron>

Conclusion: The final answer is option D. There is no change in the answer key

45) If a substance or chemical loses hydrogen during reaction, then the substance is said to be 45) यदि कोई पदार्थ या रसायन अभिक्रिया के दौरान हाइड्रोजन त्याग देता है, तो तब उस पदार्थ को कहा जाता है

A) reduced

B) melted

C) sublimised

D) oxidised

A) अपचयित

B) गलित

C) ऊर्ध्वपातित

D) ऑक्सीकृत

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822191

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: The term "oxidation" is defined as the addition of oxygen/electronegative element to a substance or removal of hydrogen/ electropositive element from a substance.

Reference-<https://ncert.nic.in/textbook/pdf/kech201.pdf> Page no-2/21

Conclusion: The final answer is option D. There is no change in the answer key

46) Which of the following is NOT an allotropic form of carbon? 46) निम्नलिखित में से कौन कार्बन का अपररूप नहीं है?

- A) Graphite
- B) Diamond
- C) Lead
- D) Coal

- A) ग्रेफाइट
- B) हीरा
- C) सीसा
- D) कोयला

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822195

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: The three best-known carbon allotropes are amorphous carbon (such as coal and soot), graphite, and diamond. Lead is not an allotrope of carbon.

Reference-<https://phys.org/news/2011-04-carbon-allotrope-variety-applications.html>

Conclusion: The final answer is option C. There is no change in the answer key

47) The Sun's heat is due to which of the following reactions occurring in the interior of the sun?

- A) Nuclear fission reaction
B) Displacement reaction
C) Nuclear fusion reaction
D) Double displacement reaction

47) सूर्य की ऊष्मा सूर्य के आंतरिक भाग में होने वाली निम्नलिखित में से किस अभिक्रिया के कारण उत्पन्न होती है?

- A) नाभिकीय विखंडन अभिक्रिया
B) प्रतिस्थापन अभिक्रिया
C) नाभिकीय संलयन अभिक्रिया
D) द्वि-प्रतिस्थापन अभिक्रिया

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822192

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation: The energy from the Sun - both heat and light energy - originates from a nuclear fusion process that is occurring inside the core of the Sun. The specific type of fusion that occurs inside of the Sun is known as proton-proton fusion.

Reference- https://energyeducation.ca/encyclopedia/Nuclear_fusion_in_the_Sun

Conclusion: The final answer is option C. There is no change in the answer key

48) Allotropic form of carbon which conducts electricity is 48) कार्बन के उस अपररूप का नाम बताइए जो विद्युत का चालन करता है

- A) Graphite
- B) Diamond
- C) Charcoal
- D) Fullerene

- A) ग्रेफाइट
- B) हीरा
- C) चारकोल
- D) फुलरीन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822203

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation: Graphite is also a very good conductor of electricity because of the presence of free electrons which aids in conduction of electricity.

Reference- <https://ncert.nic.in/textbook/pdf/jesc104.pdf>

Conclusion: The final answer is option A. There is no change in the answer key

- 49) Number of carbon atoms in a heptane are 49) एक हेप्टेन में कार्बन परमाणुओं की संख्या है
- A) 5 A) 5
- B) 7** **B) 7**
- C) 6 C) 6
- D) 8 D) 8

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822200

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Heptane is a straight-chain alkane with seven carbon atoms. It has been found in Jeffrey pine (*Pinus jeffreyi*). It has a role as a non-polar solvent and a plant metabolite. It is a volatile organic compound and an alkane.

Reference- <https://pubchem.ncbi.nlm.nih.gov/compound/Heptane>

Conclusion: The final answer is option B. There is no change in the answer key

50) Soap fails to give good lather in

- A) distilled water
- B) hard water**
- C) hot water
- D) heavy water

50) साबुन निम्नलिखित में से किसमें अच्छा झाग नहीं दे पाते हैं?

- A) आसुत जल
- B) कठोर जल**
- C) गर्म जल
- D) भारी जल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822196

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation: Presence of calcium and magnesium salts in the form of hydrogen carbonate, chloride and sulphate in water makes water 'hard'. Hard water does not give lather with soap.

Reference- <https://ncert.nic.in/textbook/pdf/kech202.pdf>

Conclusion: The final answer is option B. There is no change in the answer key

51) Which among the following is a strong acid? 51) निम्नलिखित में से कौन-सा एक प्रबल अम्ल है?

- A) Tartaric acid
- B) Citric acid
- C) Acetic acid
- D) Sulphuric acid

- A) टार्टरिक अम्ल
- B) सिट्रिक अम्ल
- C) ऐसिटिक अम्ल
- D) सल्फ्यूरिक अम्ल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822220

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation: Generally inorganic acids like sulphuric acid, nitric acid, Hydrochloric acid donate proton very easily when dissolved in water whereas organic acids like citric acid, acetic acid, tartaric acid donot generate protons easily.

Reference-

[https://chem.libretexts.org/Bookshelves/Physical_and_Theoretical_Chemistry_Textbook_Maps/Supplemental_Modules_\(Physical_and_Theoretical_Chemistry\)/Equilibria/Acid-Base_Equilibria/2._Strong_and_Weak_Acids](https://chem.libretexts.org/Bookshelves/Physical_and_Theoretical_Chemistry_Textbook_Maps/Supplemental_Modules_(Physical_and_Theoretical_Chemistry)/Equilibria/Acid-Base_Equilibria/2._Strong_and_Weak_Acids)

Conclusion: The final answer is option D. There is no change in the answer key

52) An acid turns

- A) yellow litmus to blue
- B) red litmus to blue
- C) yellow litmus to red
- D) blue litmus to red**

52) अम्ल परिवर्तित कर देता है

- A) पीले लिटमस को नीले में
- B) लाल लिटमस को नीले में
- C) पीले लिटमस को लाल में
- D) नीले लिटमस को लाल में**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822210

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: Acids are sour in taste and change the colour of blue litmus to red.

Reference: <https://ncert.nic.in/textbook/pdf/jesc102.pdf>

Conclusion: The final answer is option D. There is no change in the answer key

53) Two hydrocarbons differ by $-CH_2$ in their structures are referred as

- A) Homologous series
- B) Heterogenous mixture
- C) Heterogenous series
- D) Homologous mixture

53) दो हाइड्रोकार्बन अपनी संरचनाओं में $-CH_2$ द्वारा भिन्न हैं, उन्हें कहा जाता है

- A) सजातीय श्रेणी
- B) विजातीय मिश्रण
- C) विजातीय श्रेणी
- D) सजातीय मिश्रण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822201

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation: In a Homologous series, two adjacent hydrocarbons differ by $-CH_2$ group.

Reference- <https://ncert.nic.in/textbook/pdf/jesc104.pdf> page no-9/21

Conclusion: The final answer is option A. There is no change in the answer key

54) Acid used in the removal of the unreacted silicon oxide during the extraction of amorphous silicon is

- A) Hydrochloric acid
B) Hydrofluoric acid
 C) Sulphuric acid
 D) Nitric acid

54) अक्रिस्टलीय सिलिकॉन के निष्कर्षण के दौरान निष्क्रियशील सिलिकॉन ऑक्साइड को हटाने में प्रयुक्त होने वाला अम्ल है

- A) हाइड्रोक्लोरिक अम्ल
B) हाइड्रोफ्लोरिक अम्ल
 C) सल्फ्यूरिक अम्ल
 D) नाइट्रिक अम्ल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822206

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Hydrofluoric acid (HF) and 25% CH₃COOH (60-70°C) to remove the remaining Mg₂SiO₄, unreacted SiO₂ and other metallic impurities.

Reference-

https://tspace.library.utoronto.ca/bitstream/1807/25788/3/Sadique_Sarder_E_201011_MASc_thesis.pdf

Conclusion: The final answer is option B. There is no change in the answer key

55) The smallest amino acid is

- A) Tyrosine
- B) Alanine
- C) Phenylalanine
- D) Glycine**

55) सबसे छोटा अमीनो अम्ल है

- A) थायरोसिन
- B) ऐलानाइन
- C) फेनिलऐलानाइन
- D) ग्लाइसिन**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822219

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation: Glycine is the simplest and smallest amino acid.

<https://ncert.nic.in/textbook/pdf/lech205.pdf> Page no- 10/22

Conclusion: The final answer is option D. There is no change in the answer key

56) Reaction of ethanoic acid with ethanol (in presence of acid catalyst) results in the formation of

56) ऐथेनॉल (अम्लीय उत्प्रेरक की उपस्थिति में) के साथ ऐथेनॉइक अम्ल की अभिक्रिया के परिणामस्वरूप निम्नलिखित में से किसका निर्माण होता है?

A) Ester

B) Ethane

C) Ethene

D) Methane

A) ईथर

B) ऐथेन

C) ऐथीन

D) मेथेन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822205

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation: An acid reacts with alcohol and loses water molecule to form esters.

Reference- <https://ncert.nic.in/textbook/pdf/lech203.pdf> Page no-26/32

Conclusion: The final answer is option A. There is no change in the answer key

57) Formula of carboxylic acid functional group 57) कार्बोक्सिलिक अम्ल के क्रियात्मक समूह का सूत्र है
is

A) OH

B) CO

C) CHO

D) COOH

A) OH

B) CO

C) CHO

D) COOH

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822204

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation: Functional group of carboxylic acid is -COOH

Reference- <https://ncert.nic.in/textbook/pdf/lech203.pdf> Page no-1/32

Conclusion: The final answer is option D. There is no change in the answer key

58)) Identify the following statements as TRUE or FALSE.

- (i) Boric acid is used as antiseptic in eye lotions
(ii) Hydrofluoric acid is used to prevent scurvy
(iii) Chromic acid is used for cleaning glass apparatus
(iv) Vinegar is used as preservative in pickles

- A) (i) - TRUE; (ii) - TRUE; (iii) - TRUE; (iv) - FALSE
B) (i) - TRUE; (ii) - TRUE; (iii) - TRUE; (iv) - TRUE
C) (i) - TRUE; (ii) - FALSE; (iii) - TRUE; (iv) - TRUE
D) (i) - TRUE; (ii) - FALSE; (iii) - TRUE; (iv) - FALSE

- 58) निम्नलिखित कथनों की पहचान सत्य या असत्य के रूप में कीजिए।
(i) आँखों के लोशन में बोरिक अम्ल का पूतिरोधी के रूप में प्रयोग किया जाता है।
(ii) स्कर्वी की रोकथाम के लिए हाइड्रोफ्लोरिक अम्ल का उपयोग किया जाता है।
(iii) काँच के उपकरण की सफाई के लिए क्रोमिक अम्ल का उपयोग किया जाता है।
(iv) सिरके का अचार में परिरक्षक के रूप में प्रयोग किया जाता है।

- A) (i) - सत्य; (ii) - सत्य; (iii) - सत्य; (iv) - असत्य
B) (i) - सत्य; (ii) - सत्य; (iii) - सत्य; (iv) - सत्य
C) (i) - सत्य; (ii) - असत्य; (iii) - सत्य; (iv) - सत्य
D) (i) - सत्य; (ii) - असत्य; (iii) - सत्य; (iv) - असत्य

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822214

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: Boric acid is used as an antiseptic in eye lotions.

Chromic acid used for cleaning glass apparatus.

Hydrofluoric acid is not used to prevent scurvy. Vitamin C rich foods are used to prevent scurvy.

Vinegar because of its acetic acid content is used as preservative in pickles.

Reference- <https://www.healthline.com/health/boric-acid-eye-wash#about-boric-acid>

[https://www.sciencedirect.com/topics/food-](https://www.sciencedirect.com/topics/food-science/vinegar#:~:text=Finally%2C%20because%20of%20its%20acetic,fish%20products%2C%20and%20spiced%20fruits.)

[science/vinegar#:~:text=Finally%2C%20because%20of%20its%20acetic,fish%20products%2C%20and%20spiced%20fruits.](https://www.sciencedirect.com/topics/food-science/vinegar#:~:text=Finally%2C%20because%20of%20its%20acetic,fish%20products%2C%20and%20spiced%20fruits.)

<https://dec.vermont.gov/sites/dec/files/wsm/wastewater/docs/GlassCleaning.pdf>

Conclusion: The final answer is option C. There is no change in the answer key



59) The colour of ferrous sulphate crystals is

- A) Blue
- B) Green**
- C) White
- D) Black

59) फेरस सल्फेट क्रिस्टल का रंग होता है

- A) नीला
- B) हरा**
- C) सफेद
- D) काला

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822193

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation: The color of ferrous sulphate crystals is green.

Reference- <https://ncert.nic.in/textbook/pdf/jesc101.pdf> Page no-8/16

Conclusion: The final answer is option B. There is no change in the answer key

60) If carbon dioxide is passed through lime water, lime water colour changes to

- A) brown dye
- B) black
- C) red
- D) white

60) यदि कार्बन डाइऑक्साइड को चूने के पानी में प्रवाहित किया जाता है, तो चूने के पानी का रंग किसमें परिवर्तित हो जाता है?

- A) भूरा रंजक
- B) काला
- C) लाल
- D) सफेद

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822212

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: When carbon dioxide is passed into lime water, it turns lime water milky. Basic principle used in white washing of walls.

Reference- <https://ncert.nic.in/textbook/pdf/jesc101.pdf> Page no-7/16

Conclusion: The final answer is option D. There is no change in the answer key

- 61) Phototropic movements of a plant are generally
- 61) एक पौधे की प्रकाश-प्रवर्तक गतियाँ सामान्यतः क्या होती हैं
- A)** responsive to light
B) multidirectional
C) responsive to gravity
D) responsive to chemical stimulus
- A)** प्रकाश के प्रति संवेदक
B) बहुदिशात्मक
C) गुरुत्वाकर्षण के प्रति संवेदक
D) रासायनिक उद्दीपन के प्रति संवेदक

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822083

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation: responsive to light is the correct answer,

Phototropism is the growth of an organism in response to a light stimulus., from NCERT Text Book

Conclusion:

The final answer is option A. There is no change in the answer key

62) Which of the following is considered as a chemical method of contraception?

- A) Birth control pills
- B) Using diaphragm
- C) Menstruation
- D) Grafting

62) निम्नलिखित में से किसे गर्भनिरोधक की रासायनिक विधि माना जाता है?

- A) गर्भनिरोधक गोलियाँ
- B) डायफ्राम का उपयोग करना
- C) ऋतुस्राव
- D) ग्राफ्टिंग

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822088

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: None of These

Final Answer: A

Explanation: Birth control pills (BCPs) contain man-made forms of 2 hormones called estrogen and progestin. Chemical barriers or spermicides are sperm-killing substances, available as foams, creams, gels used to kill the sperms

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key

63) In human males, the number of chromosomes are represented as: (Here A--> Autosomes and XY-->a pair of sex chromosomes)

- A) 22 pairs of A + XY
- B) 22 pairs of A
- C) 24 pairs of A + XY
- D) 23 pairs of XY

63) मानव पुरुषों में, गुणसूत्रों की संख्या को किस प्रकार दर्शाया जाता है: (यहाँ A--> अलिंग क्रोमोसोम और XY-->सेक्स गुणसूत्रों की एक जोड़ी)

- A) A + XY के 22 जोड़े
- B) A के 22 जोड़े
- C) A + XY के 24 जोड़े
- D) XY के 23 जोड़े

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822092

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation: *Human* females have two X **chromosomes** while *males* possess an XY pairing. This XY sex-determination system is found in males. Referenc is from NCERT Text Book

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key

64) What is the role of platelets in a human body?

- A) Clotting of blood
- B) Carbon dioxide transport
- C) Oxygen transport
- D) Giving immunity to the body

64) मानव शरीर में प्लेटलेट्स की क्या भूमिका है?

- A) रुधिर का थक्का जमना
- B) कार्बन डाइऑक्साइड परिवहन
- C) ऑक्सीजन परिवहन
- D) शरीर को रोग प्रतिरोधक क्षमता प्रदान करना

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822076

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: None of These

Final Answer: A

Explanation: A is correct.. Primary function of the platelet is thought to be hemostasis, thrombosis, and wound healing, which is blood clotting in humans

From NCERT book, Option A is correct

Conclusion: The final answer is option A. There is no change in the answer key

65) Which part of the flower ripens to form a fruit?

- A) Ovule
- B) Carpel
- C) Ovary**
- D) Stamen

65) फूल का कौन सा भाग पक कर फल बनता है?

- A) बीजांड
- B) अंडप
- C) अंडाशय**
- D) पुंकेसर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822084

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: A fertilized *flower* gives rise to a *fruit*. A *fruit* is defined as a *ripened* ovary. It protects the seeds which helps in its dispersal too.

Option C is correct, from NCERT

Conclusion: The final answer is option C. There is no change in the answer key

66) It is important in Grafting to ensure that both the cambium layers of scion and stock are in contact. Which of the following options is the CORRECT reason for this?

- A) The scion shouldn't get infected by plant diseases
- B) The stock doesn't slip away from the scion
- C) The cambium layer avoids unwanted vegetative growth
- D) The cambium layer in scion is responsible for growth**

66) ग्राफ्टिंग में यह सुनिश्चित करना महत्वपूर्ण है कि स्कोन और स्टॉक की दोनों कैम्बियम परतें संपर्क में हैं। निम्नलिखित में से कौन सा विकल्प इसका सही कारण है?

- A) स्कोन पौधों की बीमारियों से संक्रमित नहीं होना चाहिए
- B) स्टॉक स्कोन से फिसल न जाए
- C) कैम्बियम परत अवांछित वनस्पति विकास से बचाती है
- D) स्कोन में कैम्बियम परत विकास के लिए जिम्मेदार है**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822097

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: For successful *grafting* to take place, the vascular *cambium* tissues of the *stock* and *scion* plants leads to be successful. The cambium produces conductive tissue for the actively growing plant

Option D is correct, NCERT book

Conclusion: The final answer is option D. There is no change in the answer key

67) The released energy obtained by the oxidation of glucose is generally stored as

- A) ATP
- B) NAD+
- C) RNA
- D) DNA

67) ग्लूकोज के ऑक्सीकरण द्वारा प्राप्त मुक्त ऊर्जा को सामान्यतः किस रूप में संग्रहित किया जाता है?

- A) एटीपी
- B) एनएडी+
- C) आरएनए
- D) डीएनए

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822077

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation: ATP is the energy currency of the cell obtained by the oxidation of glucose.

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key

68) The structure which provides nutrition to the developing foetus is

- A) Fallopian Tube
- B) Seminal Vesicle
- C) Placenta**
- D) Ovary

68) विकासशील भ्रूण को पोषण प्रदान करने वाली संरचना कौन सी है

- A) डिंबवाहिनी
- B) शुक्राशय
- C) प्लेसेंटा**
- D) अंडाशय

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822090

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation: Yes, correct answer is Placenta. This structure provides oxygen and nutrients to the growing baby and removes waste products from the baby's blood.

Option C is correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key

69) Fingers in human beings are an example of

- A) inheritance
- B) speciation
- C) variation**
- D) adaptation

69) मनुष्य में उंगलियां किसका उदाहरण हैं

- A) आनुवंशिकी
- B) जाति उद्भव
- C) विभिन्नता**
- D) अनुकूलन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822093

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: A characteristic that changes gradually over a range of values shows **continuous variation**. Here Fingers is the correct answer showing variation. It is the modification in structure, form or function in an organism, deviating from other organisms of the same species or group.

Option C is correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key

70) Which of the following is NOT a part of the female reproductive system in human beings?

- A) Fallopian tube
- B) Uterus
- C) Vas deferens**
- D) Ovary

70) निम्नलिखित में से कौन सा मानव में मादा प्रजनन प्रणाली का हिस्सा नहीं है?

- A) डिंबवाहिनी
- B) गर्भाशय
- C) शुक्रवाहिका**
- D) अंडाशय

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822089

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation: Vasa deferens is the part of the male reproductive system.

Option C is correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key

- 71) Movement of food through oesophagus is due to 71) ग्रसिका के माध्यम से भोजन की गति किसके कारण होती है
- A) gravitational pull
B) enzymes
C) lubrication by saliva
D) peristalsis
- A) गुरुत्वीय खिंचाव
B) एंजाइम
C) लार द्वारा स्नेहन
D) क्रमाकुंचन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822071

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation: Yes, Peristalsis is right. Peristaltic waves occur in the esophagus, stomach, and intestines., involuntary movements of the longitudinal and circular muscles leading to the movement.

Option D is correct, NCERT

Conclusion: The final answer is option D. There is no change in the answer key

72) Most of the fat digestion occurs in the

- A) rectum
- B) duodenum
- C) small intestine**
- D) stomach

72) वसा का अधिकांश पाचन कहाँ होता है

- A) मलाशय
- B) ग्रहणी
- C) छोटी आंत**
- D) आमाशय

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822078

Number of Claims: 2

Declared Answer Key: C

Candidate Claim: None of These

Final Answer: C

Explanation: The bulk of fat digestion takes place in the small intestine with the release of bile from the gallbladder and enzymes from the pancreas which leads to emulsification of fats

Option C is correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key

73) The 'testes' that is the male reproductive organ in a human body performs which of the following functions?

- A) Production of testosterone only
 B) Production of sperms only
C) Production of both sperms and testosterone
 D) Production of both sperms and progesterone

73) मानव शरीर में पुरुष प्रजनन अंग 'वृषण' निम्नलिखित में से कौन सा कार्य करता है?

- A) केवल टेस्टोस्टेरोन का उत्पादन
 B) केवल शुक्राणुओं का उत्पादन
C) शुक्राणु और टेस्टोस्टेरोन दोनों का उत्पादन
 D) शुक्राणु और प्रोजेस्टेरोन दोनों का उत्पादन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822085

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: Yes the option is correct. The testes are responsible for making testosterone, the primary male sex hormone, and for producing sperm, which is the male gamete in males.

Option C is correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key

74) Hydra is an organism that reproduces asexually by 74) हाइड्रा एक जीव, अलैंगिक रूप से प्रजनन कैसे करता है

- A) Vegetative propagation
B) Multiple fission
C) Binary fission
D) Budding

- A) कायिक प्रवर्धन
B) बहुखंडन
C) द्विखंडन
D) मुकुलन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822086

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation: Yes Hydra produces asexual reproduction by budding.. Budding is the reproduction technique which produces new young hydra from the small part of the parent body seen in this organism.

Option D correct, NCERT

Conclusion: The final answer is option D. There is no change in the answer key

75) Renal cortex contains cup like structures termed as:

- A) Renal capsule
- B) Glomerulus capsule
- C) Loop of Henle
- D) Bowman's capsule**

75) वृक्क वल्कुट में कप जैसी संरचनाएं होती हैं उन्हें क्या कहा जाता है:

- A) वृक्क कैप्सूल
- B) ग्लोमेरुलस कैप्सूल
- C) हेनले लूप
- D) बोमन कैप्सूल**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822073

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation: Bowman's capsule, Bowman capsule, glomerular capsule, renal corpuscular capsule, or capsular glomeruli, double-walled cuplike structure that makes up part of the nephron and renal cortex contains this structure.

Option D is correct, NCERT

Conclusion: The final answer is option D. There is no change in the answer key

76) Chlamydia is related with

- A) urethra
- B) gonorrhoea
- C) syphilis
- D) HIV

76) क्लैमाइडियोसिस किसके साथ संबंधित है

- A) मूत्रमार्ग
- B) गोनोरिया
- C) सिफलिस
- D) एचआईवी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822091

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation: Chlamydia is a common sexually transmitted disease in both men woman It is caused by bacteria called Chlamydia trachomatis.. Women can get chlamydia in the cervix, rectum and vagina.

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key

77) A gland which is a dual gland that has both exocrine and endocrine functions is:

- A) Thymus gland
- B) Pancreas**
- C) Adrenal
- D) Pineal gland

77) एक ग्रंथि जो एक दोहरी ग्रंथि है जिसमें बहिःस्रावी और अंतःस्रावी दोनों कार्य होते हैं, इनमें से कौन सी है:

- A) थाइमस ग्रंथि
- B) अग्न्याशय**
- C) अधिवृक्क
- D) पिनियल ग्रंथि

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822080

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation: Pancreas is a dual gland. The pancreas is a mixed or heterocrine gland. It has both an endocrine and a digestive exocrine function. 99% of the pancreas is exocrine and 1% is endocrine. Pancreas located in the abdomen behind the stomach and functions as a gland.

Option B is correct, NCERT

Conclusion: The final answer is option B. There is no change in the answer key

78) Which of the following statements is FALSE with reference to characteristic features of root hairs?

- A) They are always unbranched
- B) They are heavily cutinised**
- C) They are generally unicellular
- D) They are short lived

78) मूल रोमों की विशिष्ट विशेषताओं के संदर्भ में निम्नलिखित में से कौन सा कथन गलत है?

- A) वे हमेशा अशाखित होते हैं
- B) वे भारी क्यूटिनमय होते हैं**
- C) वे आम तौर पर एककोशिकीय होते हैं
- D) वे अल्पकालिक हैं

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822094

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: D

Final Answer: B

Explanation: Option B correct. Root hairs are tubular outgrowths of epiblema cells, and are not cutinised.

Option B, NCERT

Conclusion: The final answer is option B. There is no change in the answer key

79) The term juvenile phase of a plant represents which phase among the following?

- A) Birth
- B) Stationary
- C) Lag
- D) Death

79) पौधे का किशोर चरण शब्द निम्नलिखित में से किस चरण का प्रतिनिधित्व करता है?

- A) जन्म
- B) स्थिर
- C) पिछड़ना
- D) मृत्यु

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822087

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation: Yes, Juvenile phase is the first phase of the 3 phases, and the birth phase of the plant

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key

80) Which of the following is a part of the brain that controls thinking?

- A) Forebrain
- B) Midbrain
- C) Spinal cord
- D) Hindbrain

80) निम्नलिखित में से कौन-सा मस्तिष्क का वह भाग है जो सोच को नियंत्रित करता है?

- A) अग्र मस्तिष्क
- B) मध्य मस्तिष्क
- C) मेरुरज्जु
- D) पश्च मस्तिष्क

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822082

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation: The cerebrum is the *thinking part of the brain* and it *controls* your voluntary muscles and it is in the forebrain

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key

81) The structure associated with both, the nervous system and endocrine system is

- A) Hypothalamus
- B) Spinal cord
- C) Cerebellum
- D) Pons

81) तंत्रिका तंत्र और अंतःस्रावी तंत्र दोनों से जुड़ी संरचना कौन सी है

- A) हाइपोथैलेमस
- B) मेरुरज्जु
- C) अनुमस्तिष्क
- D) पॉस

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822079

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation: Hypothalamus of the nervous system is integrated with endocrine system via the pituitary gland. So associated with both nervous system and endocrine system. It has autonomic nerves which has direct control over the gland

A option correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key

82) This is an autoimmune disease that occurs when the adrenal cortex is damaged and fails to produce enough of the steroid hormones cortisol and aldosterone. Identify the disease.

- A) Graves' disease
B) Addison's disease
 C) Cushing's syndrome
 D) AIDS

82) यह एक स्वप्रतिरक्षा रोग है जो तब होता है जब अधिवृक्क वल्कुट क्षतिग्रस्त हो जाता है और पर्याप्त स्टेरॉयड हार्मोन कोर्टिसोल और एल्डोस्टेरोन का उत्पादन करने में विफल रहता है। रोग की पहचान करें।

- A) ग्रीव्स रोग
B) एडिसन का रोग
 C) कुशिंग सिंड्रोम
 D) एड्स

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822095

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation: Option B. This is called an autoimmune disorder. Addison's disease can develop if the immune system attacks the adrenal glands and severely damages the adrenal cortex

Option B, NCERT

Conclusion: The final answer is option B. There is no change in the answer key

83) Which of the following secretes Testosterone?

- A) Granulosa cells
- B) Leydig cells**
- C) Gonadotropic cells
- D) Sertoli cells

83) निम्नलिखित में से कौन टेस्टोस्टेरोन का स्राव करता है?

- A) ग्रेनुलोसा कोशिकाएँ
- B) लीडिग कोशिकाएँ**
- C) गोनैडोट्रोपिक कोशिकाएँ
- D) सर्टोली कोशिकाएँ

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822100

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation: Testosterone secretes Leydig cells. Testosterone is secreted by cells that lie between the seminiferous tubules, called Leydig or interstitial cells

Option B correct, NCERT

Conclusion: The final answer is option B. There is no change in the answer key

84) Why do some animals not respond to moving or approaching vehicles on the road? 84) कुछ जानवर सड़क पर चलने या आने वाले वाहनों पर प्रतिक्रिया क्यों नहीं करते हैं?

- A)** Reflex arcs are not evolved
 B) Poor eye sight
 C) Undeveloped autonomic nervous system
 D) Complex impulse co-ordination

- A)** प्रतिवर्ती चाप विकसित नहीं हुए हैं
 B) खराब दृष्टि
 C) अविकसित स्वायत्त तंत्रिका तंत्र
 D) जटिल आवेग समन्वय

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822096

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

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Some animals do not respond to moving or approaching vehicles on the road because their reflex arcs have not evolved and hence the thinking process of the brain is not fast enough.

https://books.google.co.in/books?id=I0JdWAAQBAJ&pg=PA101&lpg=PA101&dq=some+animals+do+not+respond+to+moving+or+approaching+vehicles+on+the+road&source=bl&ots=ziO-F0eKRR&sig=ACfU3U0SEJDTURyDBoatn_xBddRIYfyo3A&hl=en&sa=X&ved=2ahUKEwj1xZri-e7nAhWg6XMBHXgOCPMQ6AEwCnoECAwQAQ#v=onepage&q=some%20animals%20do%20not%20respond%20to%20moving%20or%20approaching%20vehicles%20on%20the%20road&f=false
https://books.google.co.in/books?id=fj0_DAAAQBAJ&pg=SL6-PA112&lpg=SL6-PA112&dq=some+animals+do+not+respond+to+moving+or+approaching+vehicles+on+the+road&source=bl&ots=CkrYjbZzhG&sig=ACfU3U304vO9KhdvH8EDdAGoLrZuKg6bSA&hl=en&sa=X&ved=2ahUKEwj1xZri-e7nAhWg6XMBHXgOCPMQ6AEwAHoECAgQAQ#v=onepage&q=some%20animals%20do%20not%20respond%20to%20moving%20or%20approaching%20vehicles%20on%20the%20road&f=false

Option A is correct

Conclusion: The final answer is option A. There is no change in the answer key

85) Why are Detritus feeders necessary for long-term survival of any ecosystem?

- A) To accumulate dead organisms and waste products
- B) To recycle important elements such as potassium, nitrogen and phosphorus present in dead organisms**
- C) To provide food and oxygen to all the organisms present in the different trophic levels of an ecosystem
- D) To stop release of more inorganic molecules and mineral salts

85) किसी भी पारिस्थितिक तंत्र के दीर्घकालिक अस्तित्व के लिए अपरद फीडर क्यों आवश्यक हैं?

- A) मृत जीवों और अपशिष्ट उत्पादों को जमा करने के लिए
- B) मृत जीवों में मौजूद पोटैशियम, नाइट्रोजन और फास्फोरस जैसे महत्वपूर्ण तत्वों का पुनर्चक्रण करने के लिए**
- C) पारिस्थितिक तंत्र के विभिन्न पोषी स्तरों में मौजूद सभी जीवों को भोजन और ऑक्सीजन प्रदान करने के लिए
- D) अधिक अकार्बनिक अणुओं और खनिज लवणों के निकास को रोकने के लिए

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822099

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: None of These

Final Answer: B

Explanation: Option B correct. Detritus feeders or detritus eaters are heterotrophs that obtain nutrients by consuming detritus (decomposing plant and animal parts including feces). By doing so, all these detritivores contribute to decomposition and the nutrient cycles like Potassium, nitrogen, carbon etc.

B correct, NCERT

Conclusion: The final answer is option B. There is no change in the answer key

86) Haemoglobin is associated with which of the following metals?

- A) Calcium
- B) Aluminium
- C) Iron**
- D) Potassium

86) हीमोग्लोबिन निम्नलिखित में से किस धातु से संबंधित है?

- A) कैल्शियम
- B) अल्युमीनियम
- C) लोहा**
- D) पोटैशियम

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822075

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation: Yes. Haemoglobin is associated with Iron for carrying oxygen to RBC. Iron is an essential element for blood production. Hemoglobin is essential for transferring oxygen in your blood from the lungs to the tissues.

Option C, NCERT

Conclusion: The final answer is option C. There is no change in the answer key

87) Which of the following options are the recessive traits obtained by Mendel, in F2 segregating progenies in pea?

- A) White seed coat colour and Yellow pod colour
- B) Green Pod colour and Axial flower position
- C) Inflated pod form and Dwarf stem length
- D) Round seed and Yellow cotyledon colour

87) निम्नलिखित में से कौन से विकल्प मेंडल द्वारा, F2 में मटर में संततियों को अलग करने में प्राप्त किए गए अप्रभावी लक्षण हैं?

- A) सफेद बीज कोट रंग और पीला फली रंग
- B) हरा फली का रंग और अक्षीय फूल की स्थिति
- C) फूली हुई फली का रूप और तने की बौनी लंबाई
- D) गोल बीज और पीला बीजपत्र रंग

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822098

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation: Mendel exhibited this F2 generation and found that White seed coat and yellow pod colour were recessive traits in his experiment on *Pisum sativum*. Monohybrid cross between two pure breeding varieties always obtained hybrid progeny exhibiting one parental trait while the opposite trait was never expressed in the F1 generation. F2 hybrid follows law of independent assortment.

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key

88) The action of the bile can be termed as.

- A) esterification
- B) hydrogenation
- C) emulsification**
- D) oxidation

88) पित्त की क्रिया को क्या कहा जा सकता है.

- A) एस्टरीकरण
- B) हाइड्रोजनीकरण
- C) पायसीकरण**
- D) ऑक्सीकरण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822074

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: Yes. Bile is secreted by the liver, its salts namely sodium glycocholate and sodium taurocholate, reduces the surface tension of large fat droplets and break them into many small ones. This process is called **emulsification**, as it produces a fine emulsion of fats in the aqueous intestinal contents.

Option C , NCERT

Conclusion: The final answer is option C. There is no change in the answer key

89) Pituitary gland, pineal gland and hypothalamus are located in which part of the human body?

- A) Thoracic cavity
- B) Kidney
- C) Brain**
- D) Neck

89) पीयूष ग्रंथि, पिनियल ग्रंथि और हाइपोथैलेमस मानव शरीर के किस भाग में स्थित होते हैं?

- A) वक्ष गुहा
- B) वृक्क
- C) मस्तिष्क**
- D) गर्दन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822081

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation: Yes, The hypothalamus is located on the undersurface of the brain. It lies just below the thalamus and above the pituitary gland, to which it is attached by a stalk..Pineal gland located in the midline of the brain.

Option C correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key

90) Which of the following enzymes is present in the salivary glands of human beings?

- A) Amylase
- B) Trypsin
- C) Pepsin
- D) Lipase

90) निम्नलिखित में से कौन सा एंजाइम मनुष्य की लार ग्रंथियों में मौजूद होता है?

- A) एमाइलेस
- B) ट्रिप्सिन
- C) पेप्सिन
- D) लाइपेज

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822072

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation: Yes. Saliva is produced in and secreted from salivary glands. Secretory units of salivary glands are clusters of cells called an acini. These cells secrete a fluid that contains water, electrolytes, mucus and enzymes. Which act on starch.

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key

91) A person buys a circular plot of land for ₹ 4,92,800/- at the rate of ₹ 3,200/- per square meter. The radius of the plot is

- A) 7 meters
B) 12 meters
C) 9 meters
D) 6 meters

91) एक व्यक्ति ₹ 3,200/- प्रति वर्ग मीटर की दर से ₹ 4,92,800/- में एक वृत्ताकार भूखंड खरीदता है। भूखंड की त्रिज्या है

- A) 7 मीटर
B) 12 मीटर
C) 9 मीटर
D) 6 मीटर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822417

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

area of plot = $492800/3200 = 154$. $\pi r^2 = 154, r = 7$

Total area of the plot = $4,92,800/3,200 = 154$ square meters.

$(22/7) \times R^2 = 154$. Thus $R = 7$ meters.

Conclusion: The final answer is option A. There is no change in the answer key

92) The slant height of a cone whose base radius is 5cms and height is 12 cms is

- A) 12 cms
- B) 15 cms
- C) 11 cms
- D) 13 cms

92) उस शंकु की तिर्यक ऊँचाई ज्ञात कीजिए, जिसकी आधार त्रिज्या 5 सेमी और ऊँचाई 12 सेमी है।

- A) 12 सेमी
- B) 15 सेमी
- C) 11 सेमी
- D) 13 सेमी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822414

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

$$\text{slant height} = \sqrt{25 + 144} = 13$$

$$\text{The slant height} = \sqrt{144 + 25} = 13$$

Conclusion: The final answer is option D. There is no change in the answer key

93) If one root of the equation $5x^2-8x+3=0$ is $3/5$, the other root is
 93) यदि समीकरण $5x^2-8x+3=0$ का एक मूल $3/5$ है, तो फिर उसका दूसरा मूल है

A) $2/5$ **B) 1**C) $1/5$

D) -1

A) $2/5$ **B) 1**C) $1/5$

D) -1

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822402

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation: $5x^2-8x+3=0$, $(5x-3)(x-1)=0$, $x=3/5$, 1Product of the roots= $(c/a)=3/5$. If one of the roots is $3/5$, then the other root will be 1.**Conclusion:** The final answer is option B. There is no change in the answer key

94) The value of $(1/\sin^2A)+(1/\cos^2A)$ is

- A) $\sec A \operatorname{cosec} A$
B) $\sec^2 A \operatorname{cosec}^2 A$
 C) $\sin^2 A \cos^2 A$
 D) $\sin A \cos A$

94) $(1/\sin^2A)+(1/\cos^2A)$ का मान है

- A) $\sec A \operatorname{cosec} A$
B) $\sec^2 A \operatorname{cosec}^2 A$
 C) $\sin^2 A \cos^2 A$
 D) $\sin A \cos A$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822408

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation:

$(1/\sin^2A)+(1/\cos^2A)=1/\sin^2A \cos^2A$ =required answer

After simplification, we get $(1/\sin^2A) \times (1/\cos^2A)=\sec^2A \times \operatorname{cosec}^2A$

Conclusion: The final answer is option B. There is no change in the answer key

95) If $3^x/27=1$ then $x=$

- A) 3
- B) -3
- C) 2
- D) -2

95) यदि $3^x/27=1$ है, तब $x=$

- A) 3
- B) -3
- C) 2
- D) -2

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822398

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

$$3^x=27, 3^x=3^3, x=3$$

$$: 3^x=27=3^3$$

Conclusion: The final answer is option A. There is no change in the answer key

96) A rectangular field is 160 meters by 80 meters. It has a footpath 3 meters wide all round it on the inside. The area of the footpath is

A) 1756 sq mts

B) 1404 sq mts

C) 1825 sq mts

D) 1865 sq mts

96) एक आयताकार मैदान की माप 160 मीटर x 80 मीटर है। इसके अंदर से चारों ओर 3 मीटर चौड़ा एक फुटपाथ बनाया है। फुटपाथ का क्षेत्रफल होगा

A) 1756 वर्ग मीटर

B) 1404 वर्ग मीटर

C) 1825 वर्ग मीटर

D) 1865 वर्ग मीटर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822411

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

The area of the footpath will be (12800-11396) sq.meters.

Conclusion: The final answer is option B. There is no change in the answer key

97) If the equation $x^2+2x-3=0$ and $x^2+3x-k=0$ 97) यदि समीकरण $x^2+2x-3=0$ तथा $x^2+3x-k=0$ का have a common root, then the non zero value of एक उभयनिष्ठ मूल है, तो फिर k का शून्येत्तर मान है k is

- A) 2
B) 1
C) 3
D) 4
- A) 2
B) 1
C) 3
D) 4

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822404

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

The equation $x^2+2x-3=0$ has two roots which are -3 and 1. For 1 to be the root of 2nd equation, the value of K has to be 4.

Conclusion: The final answer is option D. There is no change in the answer key

98) If $A+B+C=\pi$ then the value of $\sin(A+B) + \sin C$ is

A) $\cos A$

B) $2\cos C$

C) $\sin 2C$

D) $2 \sin C$

A) $\cos A$

B) $2\cos C$

C) $\sin 2C$

D) $2 \sin C$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822409

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

$\sin(\pi - C) = \sin C$

Thus the sum is $2 \sin C$

Conclusion: The final answer is option D. There is no change in the answer key

99) The value of k for which the roots p,q of the equation $x^2 - 7x + k = 0$ satisfy the relation $5p+3q=25$ is

- A) -6
B) 8
C) 6
D) 10

99) k का वह मान ज्ञात कीजिए जिसके लिए समीकरण $x^2 - 7x + k = 0$ के मूल p,q संबंध $5p+3q=25$ को संतुष्ट करते हैं।

- A) -6
B) 8
C) 6
D) 10

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822403

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

From the equation, we can deduce that $p+q=7$ and $pq=k$

$3p+3q+2p=25$. Thus $21+2p=25$. $p=2$ and $q=5$. Thus pq will be 10.

Conclusion: The final answer is option D. There is no change in the answer key

100) If 1 cm³ of silver weights 12 grams and 6 grams of silver cost ₹ 40, then the cost of silver cube of edge 6cm is

- A) ₹ 17,280
B) ₹ 17,820
C) ₹ 17,028
D) ₹ 17,500

100) यदि 1 cm³ चाँदी का भार 12 ग्राम और 6 ग्राम चाँदी की कीमत ₹ 40 है, तो फिर 6 सेमी किनारे वाली चाँदी के घन की कीमत है

- A) ₹ 17,280
B) ₹ 17,820
C) ₹ 17,028
D) ₹ 17,500

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822415

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

The total volume=216 cm³.

The price of that silver is (216 x 12 x 40)/6=17,280

Conclusion: The final answer is option A. There is no change in the answer key

101) If A and B are mutually exclusive events such that $P(A)=0.4$ and $P(B)=0.6$ then $P(A \cup B)=$

101) यदि A और B परस्पर अपवर्जी घटनाएँ हैं और $P(A)=0.4$ तथा $P(B)=0.6$ है, तो फिर $P(A \cup B)=$

A) 1

B) 1.2

C) 0.8

D) 0.6

A) 1

B) 1.2

C) 0.8

D) 0.6

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822424

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

$$P(A \cup B) = 0.4 + 0.6 = 1$$

If the events are mutually exclusive their their union is certainly 1

Conclusion: The final answer is option A. There is no change in the answer key

102) In a rhombus, whose area is 169 sq cm, one of the diagonals is twice as long as the other. The length of its diagonals are

- A) 13 cms and 26 cms
B) 12 cms and 24 cms
C) 11 cms and 22 cms
D) 15 cms and 30 cms

102) एक समचतुर्भुज में, जिसका क्षेत्रफल 169 वर्ग सेमी है, एक विकर्ण की लंबाई दूसरे की दोगुनी है। इसके विकर्णों की लंबाई हैं

- A) 13 सेमी और 26 सेमी
B) 12 सेमी और 24 सेमी
C) 11 सेमी और 22 सेमी
D) 15 सेमी और 30 सेमी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822416

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

$(1/2)(x)(2x)=169$, $x=13$, thus diagonals are 13 and 26

Let the diagonals be x and $2x$

$(1/2) x X x 2X=169$. Thus $x=13$ and $2x=26$

Conclusion: The final answer is option A. There is no change in the answer key

103) The diameter of a wheel is 35 cms . The distance travelled by the wheel, if it makes 50 revolutions is

A) 52 metres

B) 55 metres

C) 58 metres

D) 43 metres

A) 52 मीटर

B) 55 मीटर

C) 58 मीटर

D) 43 मीटर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822413

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

distance covered in one revolution $= (22/7)(35) = 110\text{cms}$. Distance covered in 50 revolutions is $(110 \times 50) / 100 = 55$ meters

Distance travelled by the wheel when it makes 50 revolutions is $2 \times (22/7) \times 17.5 \times 50 = 55$ metres.

Conclusion: The final answer is option B. There is no change in the answer key

104) In a simultaneous throw of three coins, the probability of getting at least two tails is

- A) $2/3$
 B) $3/4$
C) $1/2$
 D) $1/3$

104) तीन सिक्कों को एक साथ उछालने पर कम-से-कम दो पट आने की प्रायिकता है

- A) $2/3$
 B) $3/4$
C) $1/2$
 D) $1/3$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822421

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

$S = \{HHH, HHT, HTH, THH, TTH, THT, HTT, TTT\}$ $E = \{TTH, THT, HTT, TTT\}$ $P(E) = 4/8 = 1/2$

There are 8 possibilities out of which 4 are favourable. Thus the probability is $1/2$.

Conclusion: The final answer is option C. There is no change in the answer key

105) The equation whose roots are 8 and -5 is 105) वह समीकरण ज्ञात कीजिए, जिसके मूल 8 और -5 हैं।

A) $x^2-3x-40=0$

B) $x^2-3x+40=0$

C) $x^2+3x+40=0$

D) $x^2+3x-40=0$

A) $x^2-3x-40=0$

B) $x^2-3x+40=0$

C) $x^2+3x+40=0$

D) $x^2+3x-40=0$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822401

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

$(x-8)(x+5)=0$, $x^2-3x-40=0$

The equation is $(x-8)(x+5)=(x^2-3x-40)$

Conclusion: The final answer is option A. There is no change in the answer key

106) The GCD of x^2-x-2 and x^2+6x+5 is

- A) $x+5$
 B) $x-2$
C) $x+1$
 D) $(x+1)(x-2)(x+5)$

106) x^2-x-2 और x^2+6x+5 का महत्तम समापवर्तक है

- A) $x+5$
 B) $x-2$
C) $x+1$
 D) $(x+1)(x-2)(x+5)$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822399

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

$x^2-x-2=(x+1)(x-2)$, $x^2+6x+5=(x+1)(x+5)$. Thus GCD is $x+1$

The factors of x^2-x-2 are $(x+1)$ and $(x-2)$

The factors of x^2+6x+5 are $(x+1)$ and $(x+5)$

The GCD is $(x+1)$

Conclusion: The final answer is option C. There is no change in the answer key

107) If $\tan A = 3/4$, A is acute, then $\sin 2A =$

- A) 12/25
- B) 21/25
- C) 4/25
- D) 24/25

107) यदि $\tan A = 3/4$ है, और A न्यूनकोण है, तो तब $\sin 2A =$

- A) 12/25
- B) 21/25
- C) 4/25
- D) 24/25

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822407

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

$$\sin 2A = 2 \sin A \cos A = 2 \left(\frac{3}{5}\right) \left(\frac{4}{5}\right) = \frac{24}{25}$$

$$\sin 2A = 2 \sin A \cos A = 2 \times \left(\frac{4}{5}\right) \times \left(\frac{3}{5}\right) = \frac{24}{25}$$

Conclusion: The final answer is option D. There is no change in the answer key

108) The solution set of the equation $5^{(x+3)} + 5^{(x+2)} = 150$ is
 108) समीकरण $5^{(x+3)} + 5^{(x+2)} = 150$ का हल
 $5^{(x+2)} = 150$ है समुच्चय है

A) {0,1}

A) {0,1}

B) {0}**B) {0}**

C) {0,-1}

C) {0,-1}

D) {0,1,2}

D) {0,1,2}

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822405

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

$$5^x(125+25)=150, 5^x=1, x=0$$

$$5^x[125+25]=150$$

Thus $5^x=1$. The value of $x=0$.**Conclusion:** The final answer is option B. There is no change in the answer key

109) The circumference of the base of a cylindrical hollow pipe is 65 cm and length is 12 mts. The surface area of the pipe is

- A) 7.5 sq.mts
 B) 7.2 sq. mts
 C) 7.8 sq.mts
 D) 6.4 sq. mts
- A) 7.5 वर्ग मीटर
 B) 7.2 वर्ग मीटर
 C) 7.8 वर्ग मीटर
 D) 6.4 वर्ग मीटर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822418

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

$2\pi r = 65\text{cms}, h = 1200\text{ cms. LSA} = 65 \times 1200 = 78000\text{sq cms} = 7.8\text{ mts}$

The surface area of the pipe is $0.65 \times 12 = 7.8\text{ sq.mts}$

Conclusion: The final answer is option C. There is no change in the answer key

110) Four circular pieces, each of radius 14 cms are placed in such a way that each piece touches two other pieces. The area of the space enclosed by the four pieces is

A) 174 cm²

B) 168 cm²

C) 156 cm²

D) 162 cm²

110) चार वृत्ताकार टुकड़े जिनमें से प्रत्येक की त्रिज्या 14 cms है, को इस प्रकार रखा गया है कि जिसका प्रत्येक टुकड़ा दो अन्य टुकड़ों को स्पर्श करता है। चारों टुकड़ों से घिरे हुए स्थान का क्षेत्रफल है

A) 174 cm²

B) 168 cm²

C) 156 cm²

D) 162 cm²

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822420

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation:

required area = $[(28 \times 28) - 4 \times \left(\frac{1}{4}\right) (22/7) (14) (14)] = 168 \text{ cm}^2$

The area enclosed by four circular pieces is $28^2 - (22/7) \times 14 \times 14 = 784 - 616 = 168 \text{ cm}^2$.

Conclusion: The final answer is option B. There is no change in the answer key

111) If $\tan A = 12/5$, A is acute, then the value of $\sin A \sec A + \cos A \operatorname{cosec} A$ is

- A) 165/75
B) 144/75
C) 169/60
D) 75/245

111) यदि $\tan A = 12/5$ है, और A न्यूनकोण है, तो फिर $\sin A \sec A + \cos A \operatorname{cosec} A$ का मान है

- A) 165/75
B) 144/75
C) 169/60
D) 75/245

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822406

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

$$\sin A \sec A + \cos A \operatorname{cosec} A = (12/13)(13/5) + (5/13)(13/12) = 169/60$$

$$\sin A \sec A + \cos A \operatorname{cosec} A = (12/5) + (5/12) = 169/60$$

Conclusion: The final answer is option C. There is no change in the answer key

112) The probability of a certain event is

- A) 0.5
- B) 1**
- C) 0
- D) 0.3

112) किसी निश्चित घटना की प्रायिकता है

- A) 0.5
- B) 1**
- C) 0
- D) 0.3

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822426

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

$P(\text{certain event})=1$

Certain event is definitely going to happen . Thus it's probability is 1.

Conclusion: The final answer is option B. There is no change in the answer key

113) The length of a rectangle is thrice its width. 113) किसी आयत की लंबाई उसकी चौड़ाई की तीन गुनी है।
If the length of its diagonal is $4\sqrt{10}$ cms, the यदि इसके विकर्ण की लंबाई $4\sqrt{10}$ सेमी है, तो फिर इसके
perimeter of the rectangle is आयत का परिमाण है

A) 36 cms

A) 36 सेमी

B) 42 cms

B) 42 सेमी

C) 32 cmsC) 32 सेमी

D) 45 cms

D) 45 सेमी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822412

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

length=12, width =4, thus perimeter=32

let width be "x" and length be "3x".

 $\text{Sqrt}(x^2+9x^2)=4\sqrt{10}$. Thus $x=4$ cms. Perimeter= $8 \times 4=32$ cms.Conclusion: The final answer is option C. There is no change in the answer key

114) A bag contains 5 red balls, 8 black balls and 10 white balls. One ball is drawn at random. What is the probability that the ball drawn is not white ?

A) 12/13

B) 3/8

C) 13/23

D) 1/2

114) एक थैले में 5 लाल गेंदें, 8 काली गेंदें और 10 सफेद गेंदें हैं। इसमें से एक गेंद यादृच्छिक रूप से निकाली जाती है। इस बात की क्या प्रायिकता है कि निकाली गई गेंद सफेद न हो?

A) 12/13

B) 3/8

C) 13/23

D) 1/2

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822423

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

$$P(\text{white}) = 10/(5+8+10) = 10/23$$

$$P(\text{not white}) = 1 - (10/23) = 13/23$$

There are 13 balls out of 23 balls which are not white. Thus the probability of picking a non white ball is 13/23.

Conclusion: The final answer is option C. There is no change in the answer key

115) If the lateral surface area of a cylinder is 1232 sq cms and radius is 14 cms, then the height of the cylinder is

- A) 13 cms
B) 15 cms
C) 14 cms
D) 12 cms

115) यदि किसी बेलन का पार्श्व पृष्ठीय क्षेत्रफल 1232 वर्ग सेमी और त्रिज्या 14 सेमी है, तो फिर उस बेलन की ऊँचाई है

- A) 13 सेमी
B) 15 सेमी
C) 14 सेमी
D) 12 सेमी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822419

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

$$LS=2(22/7)(14)h=1232. \quad h=14$$

$$2 \times (22/7) \times R \times H=1232$$

Here R=14 cms.

Thus H=14 cms.

Conclusion: The final answer is option C. There is no change in the answer key

116) Two dices are thrown simulataeously. The probability of getting the sum as odd number is

A) 2/3

B) 3/4

C) 1/3

D) 1/2

116) दो पासे एक साथ फेंके जाते हैं। ऐसे में आने वाली संख्याओं के योग का एक विषम संख्या होने की प्रायिकता है

A) 2/3

B) 3/4

C) 1/3

D) 1/2

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822422

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation: $n(S)=36, n(E)=18, P(E)=1/2$

the probability of getting the sum as odd number is same as the probability of getting the sum as even=1/2

Conclusion: The final answer is option D. There is no change in the answer key

117) What must be subtracted from $4x^2-7x+9$ to get x^2+5x-4 117) x^2+5x-4 प्राप्त करने के लिए $4x^2-7x+9$ में से क्या घटाया जाना चाहिए?

A) $3x^2+12x +13$

B) $3x^2-12x-13$

C) $3x^2- 12x +13$

D) $3x^2+12x -13$

A) $3x^2+12x +13$

B) $3x^2-12x-13$

C) $3x^2- 12x +13$

D) $3x^2+12x -13$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822400

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

$$(4x^2-7x+9)-(x^2+5x-4)=3x^2-12x+13$$

Conclusion: The final answer is option C. There is no change in the answer key

118) A box has 3 red and 5 white balls. 2 balls are drawn one after one from the box. What is the probability that the 2 balls drawn are red if the ball drawn first is returned to the box before the second ball is drawn?

- A) $3/86$
 B) $9/64$
 C) $6/65$
 D) $3/8$

118) एक बॉक्स में 3 लाल और 5 सफेद गेंदें हैं। बॉक्स से एक के बाद एक 2 गेंदें निकाली जाती हैं। इसकी क्या प्रायिकता है कि निकाली गई 2 गेंदें लाल होंगी यदि दूसरी गेंद के निकाले जाने से पहले, पहली गेंद को बॉक्स में वापस रख दिया जाता है?

- A) $3/86$
 B) $9/64$
 C) $6/65$
 D) $3/8$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822427

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation:

The probability that the two balls drawn would be red= $(3/8) \times (3/8)=9/64$

Conclusion: The final answer is option B. There is no change in the answer key

119) A group of children has 4 boys and 2 girls, group B has 5 boys and 3 girls, group C has 3 boys and 6 girls. One child is selected from each of these three groups. What is the probability that all the three selected children are girls?

119) बच्चों के एक समूह A में 4 लड़के और 2 लड़कियाँ हैं, समूह B में 5 लड़के और 3 लड़कियाँ हैं, समूह C में 3 लड़के और 6 लड़कियाँ हैं। इन तीनों समूहों में से प्रत्येक से एक बच्चे का चयन किया जाता है। इस बात की क्या प्रायिकता है कि चुने गए सभी तीन बच्चे लड़कियाँ होंगी?

A) 1/12

B) 1/6

C) 1/4

D) 5/12

A) 1/12

B) 1/6

C) 1/4

D) 5/12

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822425

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

The probability that a girl is selected from all the three groups is $(2/6) \times (3/8) \times (6/9) = 1/12$

Conclusion: The final answer is option A. There is no change in the answer key

120) If triangle ABC is a right angled triangle, where angle C = 90 degrees then the value of $\cot A + \cot B$ is

- 120) यदि त्रिभुज ABC एक समकोण त्रिभुज है, जहाँ कोण C = 90 डिग्री है, तो तब $\cot A + \cot B$ का मान है
- A) $(a-b)/(a+b)$
 B) a^2-b^2
C) $(a^2+b^2)/(ab)$
 D) 1

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822410

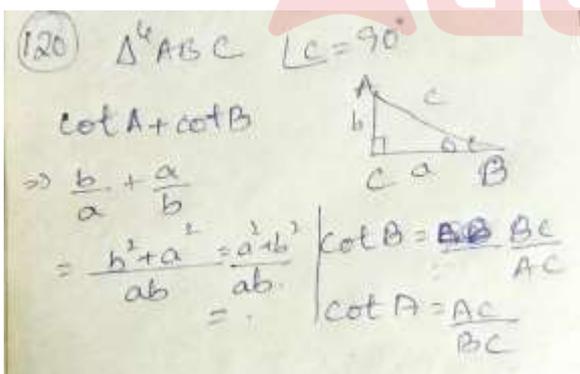
Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:



Conclusion: The final answer is option C. There is no change in the answer key

121) Choose the correct verb to fill in the blank:

By this time next year, I _____ for ten years at this company.

- A) shall have been working
- B) worked
- C) have worked
- D) will be working

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819305

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

Option B is incorrect because it is in past tense. The sentence requires to be filled with a verb in future continuous tense. Option C is incorrect because the subject 'I' does not agree with the plural verb 'have worked' Option D is wrong because the preposition 'for' which denotes a period needs to be collocated with a verb in the perfect tense. 'Will be working' in future continuous tense is incorrect. The correct option is A

The future perfect continuous is composed of two elements

the future perfect of the verb "to be" (will have been) + the present participle of the main verb (base + ing) Like the future perfect simple, this form is used to project ourselves forward in time and to look back. It refers to events or actions that are currently unfinished but will be finished at some future time. It is most often used with a time expression.

Reference:

<https://www.ef.com/wwen/english-resources/english-test/>

Conclusion:

The final answer is option A. There is no change in the answer key.



122) Fill in the blanks with the correct relative clause.:

The greengrocers are the shop -----

- you can buy fruits and vegetables

- A) Which you can buy fruits and vegetables
- B) Where you can buy fruits and vegetables**
- C) When you can buy fruits and vegetables
- D) Why you can buy fruits and vegetables

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819325

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: None of These

Final Answer: B

Explanation:

The blank needs to be filled using an adverb clause of place. Adverbial clauses of place often provide information about where something occurs. Use this type of adverb clause when you're trying to explain the location of something so that you're being very clear on the exact place. Therefore, option B is correct. Option A is an adjective clause. It is incorrect. The adverbial clauses answer the question when. We use this type of adverb clause when we are discussing time. Option c is incorrect. The adverb clauses that answer the question why are used when you're providing an explanation of the cause or purpose for something, both of which provide explanations or justifications for the outcome. So Option D is incorrect.

An adverb clause is a group of words that function as an adverb in a sentence. Adverb clauses can be used to add explanatory detail to your writing and explain how or why things happen. To

identify adverb clauses, you'll need to understand what an adverb does as well as how a clause is formed.

Reference: <https://grammar.yourdictionary.com/parts-of-speech/adverbs/adverb-clauses.html>

Conclusion:

The final answer is option B. There is no change in the answer key.



123) Fill in the blanks with the correct form of the verb:

The thieves ----- from the place leaving the stolen car at the mall itself.

- A) Fleeing
- B) Flees
- C) Flee
- D) Fled

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819319

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

The blank needs to be filled with a verb in the simple past tense form so as to balance the tense indicated in the sentence. Option A is a present participle. It is incorrect. Option b is incorrect because there is no subject-verb agreement between the plural noun 'thieves' and the singular verb 'flees' Option C is in correct because the verb is in the simple present tense. Option d is the correct option.

Reference: Dictionary.com

Conclusion:

The final answer is option D. There is no change in the answer key.

124) Fill in the blanks with the correct option:

She is _____ in whatever she says so, she is
----- from all of you.

- A) discrete, discrete
- B) discreet, discrete**
- C) discrete, discreet
- D) discreet, discreet

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819303

Number of Claims: 2

Declared Answer Key: B

Candidate Claim: A,C

Final Answer: B

Explanation:

Discreet and discrete are **homophones**. They sound the same but they have different definitions.

Discreet means careful or intentionally unobtrusive. Discrete means distinct or unconnected.

Refernce:

[When To Use Discrete vs Discreet | Merriam-Webster](https://www.merriam-webster.com/words-at-play/discrete-vs-discreet)

[https://www.merriam-webster.com › words-at-play › dis.](https://www.merriam-webster.com/words-at-play/discrete-vs-discreet)

Conclusion:

The final answer is option B. There is no change in the answer key.

125) Which of the following are parts of an essay?

- A) Salutation, title, address
- B) Date, heading, subscription
- C) Paragraphs, topic sentence, complimentary close
- D) Introduction, body and conclusion

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819315

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: None of These

Final Answer: D

Explanation:

The main parts (or sections) to an essay are **the intro, body, and conclusion**. In a standard short essay, five paragraphs can provide the reader with enough information in a short amount of space.

Reference:

Components of a Good Essay

<https://www.evansville.edu › downloads › parts>

Conclusion:

The final answer is option D. There is no change in the answer key.

126) Identify the sentence that is correctly punctuated.

- A) The servant said to the master, "Pardon my fault, Sir".
- B) The servant said to the master pardon my fault sir.
- C) The servant said to the master, Pardon my fault, sir.
- D) the servant said to the master "Pardon my fault,sir".

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819309

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

The framing of the question and the answer options is appropriate to arrive at the correct answer. Since, there is no discrepancy found between the claimed answer option and the declared answer key, there is no change in the answer key.

Conclusion:

The final answer is option A. There is no change in the answer key.

127) Fill in the blanks with the correct form of the verb:

The dog ----- to death in the highway accident.

- A) Bleeds
- B) Bled**
- C) Bleeding
- D) Bleed

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819320

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation:

The option B in the simple past tense is the correct verb that can fill the given blank. Option A and D are the simple present tense forms so are incorrect. Option C is in the continuous form.

Conclusion:

The final answer is option B. There is no change in the answer key.

128) Identify the meaning of the underlined phrase:

Ravi's mother turns a blind eye to his habit of stealing.

- A) becomes angry
- B) secretly supports
- C) looks like a blind person
- D) pretends not to notice**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819299

Number of Claims: 2

Declared Answer Key: D

Candidate Claim: A,B

Final Answer: D

Explanation:

You use the term 'Turn a Blind Eye' to refer to the act of ignoring or failing to acknowledge something you know to be real. Example of use: "She knows he's lying to her, but she's choosing to turn a blind eye to the situation."

Reference:

[Turn a Blind Eye | Phrase Definition, Origin & Examples](https://www.gingersoftware.com/content/turn-a-blind-...)

[https://www.gingersoftware.com > content > turn-a-blind-...](https://www.gingersoftware.com/content/turn-a-blind-...)

Conclusion:

The final answer is option D. There is no change in the answer key.

129) Identify the sentence that is correctly punctuated.

- A) It was a Doctors conference attended by Physicians', Surgeons' who had master's degree like M.S and M.D in various fields.
- B) It was a doctor's conference attended by Physicians, Surgeons who had masters degree like MS and MD in various fields.
- C) It was a Doctor's conference attended by Physicians, Surgeons who had master's degree like M.S and M.D in various fields.**
- D) It was a Doctors conference attended by Physicians, Surgeons who had masters degree like M.S and M.D in various fields.

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819324

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

Only option C is correctly punctuated. Option A is incorrect because of 'Physicians', wrong usage of apostrophe. Option B is incorrect because of 'doctor's' in lower case. Option D is incorrect because 'masters; without an apostrophe is incorrect.

Reference;

dictionary.com

Conclusion: The final answer is option C. There is no change in the answer key.

130) Fill in the blanks with the correct articles:

French is _____language of _____people of France.

- A) an; the
- B) a; the
- C) the; the
- D) the: a

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819311

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

Both the blanks need to be filled using the definite article. The definite article is **used before singular and plural nouns when the noun is specific or particular**. The signals that the noun is definite, that it refers to a particular member of a group. For example: "The dog that bit me ran away." Here, we're talking about a specific dog, the dog that bit me.

Reference:

[Purdue Online Writing Lab](#)

<https://owl.purdue.edu> > owl > grammar > using_articles

Conclusion:

The final answer is option C. There is no change in the answer key.

131) Fill in the blank with the correct pronoun:

He likes you more than _____.

- A) it
- B) me**
- C) you
- D) she

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819300

Number of Claims: 4

Declared Answer Key: B

Candidate Claim: A,B

Final Answer: B

Explanation:

Use the pronoun "I" when the person speaking is doing the action, either alone or with someone else. Use the pronoun "me" **when the person speaking is receiving the action of the verb in some way**, either directly or indirectly.

Reference:

[When should I use "me" and when should I use "I"? - Learner's ...](#)

<https://www.learnersdictionary.com › When-to-Use-Me-a...>

Conclusion:

The final answer is option B. There is no change in the answer key.

132) Fill in the blanks with the correct articles:

____ little girl was eating _____ice-cream.

- A) A; an
- B) An;a
- C) The: the
- D) The;an

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819310

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

The first blank needs to be filled using 'The' a definite article. The definite article is used before singular and plural nouns when the noun is specific or particular. The signals that the noun is definite, that it refers to a particular member of a group. For example: "The dog that bit me ran away." Here, we're talking about a specific dog, the dog that bit me.

The second blank needs to be filled with an indefinite article The definite article is used before singular and plural nouns when the noun is specific or particular. The signals that the noun is definite, that it refers to a particular member of a group. For example: "The dog that bit me ran away." Here, we're talking about a specific dog, the dog that bit me.

Reference:

Indefinite article Definition & Meaning - Merriam-Webster

<https://www.merriam-webster.com › dictionary › indefinit.>

Conclusion:

The final answer is option D. There is no change in the answer key.

133) Choose the correct verb to fill in the blanks:

The examination _____ at 9 a.m. tomorrow.

- A) will begin
- B) had begun
- C) has begun
- D) began

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819304

Number of Claims: 2

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

The framing of the question and the answer options is appropriate to arrive at the correct answer. Since, there is no discrepancy found between the claimed answer option and the declared answer key, there is no change in the answer key.

Conclusion:

The final answer is option A. There is no change in the answer key.

134) Choose the correct word to complete the sentence:

Meera has a passion _____ music.

- A) for
- B) of
- C) into
- D) with

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819312

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: D

Final Answer: A

Explanation:

The noun 'Passion' collocates with the preposition 'for'.

Reference:

<https://www.freecollocation.com/search?word=passion>

Conclusion:

The final answer is option A. There is no change in the answer key.

135) Identify the sentence that is correctly punctuated.

- A) One by one a flock of sheep, scrambled down into the roadway.
- B) One by one, a flock of sheep,scrambled down, into the roadway.
- C) one by one a flock of sheep scrambled down into the roadway.
- D) One by one, a flock of sheep scrambled down into the roadway.

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819308

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

In option the comma is missing after the phrase 'one by one'. In option B a comma is include incorrectly after the adverb 'down'. Option C is incorrect because of the use of lower case with the first word of the sentence.

Conclusion:

The final answer is option D. There is no change in the answer key.

136) Choose the correct word to complete the sentence:

It is believed that the cashier _____ have stolen the money.

- A) should
- B) would
- C) might**
- D) may

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819313

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

We use might when we are not sure about something **in the present** or future: I might see you tomorrow. It looks nice, but it might be very expensive. It's quite bright. It might not rain today.

Reference:

'may' and 'might' | - | LearnEnglish - British Council

<https://learnenglish.britishcouncil.org > grammar > may-a...>

Conclusion:

The final answer is option C. There is no change in the answer key.

137) Fill in the blanks with the correct option:

We ----- the project by the end of this year.

- A) would finish
- B) will have been finishing
- C) have finished
- D) will finish

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819328

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation:

The framing of the question and the answer options is appropriate to arrive at the correct answer. Since, there is no discrepancy found between the claimed answer option and the declared answer key, there is no change in the answer key.

Conclusion:

The final answer is option D. There is no change in the answer key.

138) Who is the audience of the following prompt: You want to go on an educational trip. Write a letter requesting for an educational trip.

- A) The Chief Minister
- B) Your Teacher**
- C) Students
- D) Administrator

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819316

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation:

Since it is an educational trip the letter has to be written to the teacher.

Conclusion:

The final answer is option B. There is no change in the answer key.

139) Identify the meaning of the underlined phrase:

She looks down upon her poor neighbours.

- A) despises
- B) shows animosity towards
- C) watches from an elevated position
- D) behaves rudely with

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819298

Number of Claims: 8

Declared Answer Key: D

Candidate Claim: A,B,C, None of These

Final Answer: D

Explanation:

(look down on someone/something) **to think that you are better or more important than someone else**, or to think that something is not good enough for you. She looks down on anyone who hasn't had a university education.

Reference:

[Look-down-upon Meaning - YourDictionary](#)

<https://www.yourdictionary.com › look-down-upon>

Conclusion:

The final answer is option D. There is no change in the answer key.

140) Fill in the blank with the correct pronoun:

Please listen to _____ he says.

- A) what
- B) which
- C) that
- D) them

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819301

Number of Claims: 3

Declared Answer Key: A

Candidate Claim: C,D

Final Answer: A

Explanation:

The blank needs to be filled with the relative pronoun 'what'. You use what when you are asking for information about something. You can use what as a pronoun or a determiner. When you use what as a pronoun, it can be the subject, object, or complement of a verb

Reference:

What - definition of what by The Free Dictionary

<https://www.thefreedictionary.com › what>

Conclusion:

The final answer is option A. There is no change in the answer key.

141) Fill in the blanks with the correct option:

The children ----- outside in the garden.

- A) is playing
- B) play
- C) will play
- D) are playing

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819327

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

The blank needs to be filled using the present continuous form of the verb Since the subject is in the plural the verb needs to be in plural form. The present continuous is made from the present tense of the verb be and the -ing form of a verb: We use the present continuous to talk about:

- activities at the moment of speaking:

*I'm just **leaving** work. I'll be home in an hour.*

*Please be quiet. The children **are sleeping**.*

Reference:

<https://learnenglish.britishcouncil.org/grammar/english-grammar-reference/present-continuous>

Conclusion: The final answer is option D. There is no change in the answer key.

142) Fill in the blanks with the correct option:

Our ----- advised us that dedication should be the _____ on which we must work.

- A) principle,principal
- B) principal,principle**
- C) principal,principal
- D) principle,principle

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819302

Number of Claims: 2

Declared Answer Key: B

Candidate Claim: B,C

Final Answer: B

Explanation:

Principle vs. ... A principle is a rule, a law, a guideline, or a fact. A principal is the headmaster of a school or a person who's in charge of certain things in a company. Principal is also an adjective that means original, first, or most important.

Reference

[Principle vs Principal - Learn The Difference | IELTS Australia](#)

<https://ielts.com.au> › Articles › Preparation

Conclusion:

The final answer is option B. There is no change in the answer key.

143) Identify the kind of clause underlined in the sentence:

I am very disappointed that you could not come to the wedding.

- A) Noun clause
- B) Adverb clause of manner
- C) Adjective clause
- D) Adverb clause of reason

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819307

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

A noun clause is a **dependent clause that takes the place of any noun in the sentence**, whether they are subjects, objects, or subject complements. For example: She was saddened by what she had read. Simply put, a noun clause is a **dependent clause** that takes the place of a noun in the sentence. A dependent clause is a phrase that can't stand on its own as a complete sentence. If a dependent clause can stand in for a person, place, or thing, then it's a noun clause.

Conclusion:

The final answer is option A. There is no change in the answer key.

144) Identify the kind of clause underlined in the sentence:

He could not come to school because he was ill.

- A) Adverb clause of reason
- B) Noun Clause
- C) Adverb clause of manner
- D) Adjective clause

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819306

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation:

An adverbial clause of reason is **directly connected to the main clause of the sentence**. It explains and gives reason for the main idea. ... An adverbial clause of reason usually starts with the following subordinators: because, since, as, in case, for, seeing (that), as long as, with, what with, in that and while

Reference:

[Adverb clauses of cause or reason - English Grammar](#)

<https://www.englishgrammar.org> › Adverbs

Conclusion: The final answer is option A. There is no change in the answer key.

145) Identify the Independent clause in the sentence:

Ann ate a bucket of ice cream, after she finished her exam

- A) Icecream after she finished her exam
- B) Bucket ice cream after she finished her exam
- C) After she finished her exam
- D) Ann ate a bucket ice cream

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819326

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

A clause that can form a complete sentence standing alone, having a subject and a predicate.

"the more important of the two ideas is placed in the independent clause"

In this context in the given sentence the independent clause is "Ann ate a bucket of ice cream"

Reference: Dictionary.com

Conclusion:

The final answer is option D. There is no change in the answer key.

146) Identify the sentence that is correctly punctuated.

- A) Anna is everyone's favourite though she is quiet and shy natured.
- B) Anna is everyones favourite though she quiet and shy natured.
- C) Anna is everyone's favourite, though she is quiet and shy natured.
- D) Anna is everyones favourite, though she is quiet and shy natured.

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819323

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation:

The framing of the question and the answer options is appropriate to arrive at the correct answer. Since, there is no discrepancy found between the claimed answer option and the declared answer key, there is no change in the answer key.

Conclusion:

The final answer is option C. There is no change in the answer key.

147) Fill in the blanks with the correct form of the verb:
It ----- since last night.

- A) Has been raining
- B) Is Raining
- C) Rain
- D) Rains

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819318

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation:

We use *for* with a period of time in the past, present or future.

We use *since* with a point in time in the past.

When *since* is used for talking about time, the verb in the main clause of the sentence is usually in **the present perfect or past perfect tense**: It hasn't rained since the end of July. He had been composing music since he was ten years old.

Reference:

[For or since ? - English Grammar Today - Cambridge Dictionary](#)

<https://dictionary.cambridge.org › british-grammar › for-...>

Conclusion: The final answer is option A. There is no change in the answer key.

148) Fill in the blanks with the appropriate option:

I got ----- umbrella to take if it rains, but forgot to take ----- same, when it actually rained.

- A) The, A
- B) A, An
- C) The, The
- D) An, The

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819322

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: None of These

Final Answer: D

Explanation:

In English there are three articles: *a*, *an*, and *the*. Articles are used before nouns or noun equivalents and are a type of adjective. The definite article (*the*) is used before a noun to indicate that the identity of the noun is known to the reader. The indefinite article (*a*, *an*) is used before a noun that is general or when its identity is not known. There are certain situations in which a noun takes no article.

Reference:

<http://www.butte.edu/departments/cas/tipsheets/grammar/articles.html>

Conclusion: The final answer is option D. There is no change in the answer key.

149) Fill in the blanks with the appropriate options:

----- University of Delhi released a controversial statement gainst students' rights.

- A) an
- B) a
- C) No article required
- D) The,

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819321

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

In English there are three articles: *a*, *an*, and *the*. Articles are used before nouns or noun equivalents and are a type of adjective. The definite article (*the*) is used before a noun to indicate that the identity of the noun is known to the reader. The indefinite article (*a*, *an*) is used before a noun that is general or when its identity is not known. There are certain situations in which a noun takes no article.

Reference:

<http://www.butte.edu/departments/cas/tipsheets/grammar/articles.html>

Conclusion:

The final answer is option D. There is no change in the answer key.

150) Identify the sentence which is correct.

- A) The poor flower-seller entreated us to buy some flowers.
- B) The poor flower-seller said to us to buy some flowers.
- C) The poor flower-seller told buy some flowers to us.
- D) The poor flower-seller said buy some flowers to us.

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819314

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation:

Only Option A maintains the subject+ Verb+ object structure correctly. All the other sentences are incorrectly structure.

Conclusion:

The final answer is option A. There is no change in the answer key.