

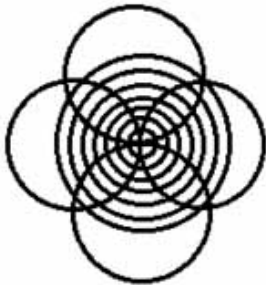


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Delhi Subordinate Services Selection Board  
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Participant ID	
Participant Name	
Test Center Name	iON Digital Zone iDZ 1 GT Karnal Road
Test Date	07/09/2021
Test Time	12:30 PM - 2:30 PM
Subject	TGT Natural Science-(Male)

Section : General Ability

Q.1 Find the number of circles in the given figure.



- Years  1. 11  
 2. 10  
 3. 12  
 4. 13

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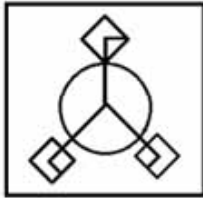
Question ID : 753229625

Q.2 From the given alternatives, select the figure in which the question figure is contained/hidden?



Years

✗ 1.



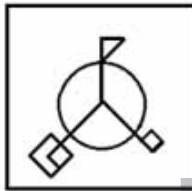
✓ 2.



✗ 3.



✗ 4.



Question ID : 753229623

Q.3 Aman is 12th from the beginning in a row. Raman is 24th from the end and there are 25 boys between Aman and Raman, then how many boys are there in total?

Years ✓ 1. 61

✗ 2. 60

✗ 3. 62

✗ 4. 63

Question ID : 753229612

Q.4 In the following question, select the related number from the given alternatives. .

21 : 3 :: 574 : ?

- Years
- 1. 113
  - 2. 82
  - 3. 23
  - 4. 97

Question ID : 753229617

Q.5 In the following question three statements are given followed by three conclusions numbered I, II and III You have to take these statements to be true even if they seem to be at variance from commonly known facts. Which of the given conclusions logically follows from the given statement.

Statements:

Some questions are answers.  
All answers are wrong.  
Some wrong are right.

Conclusions:

(I) Some wrong questions are there.  
(II) Some are true and false.  
(III) Some answers are wrong.

- Years
- 1. Only conclusion III follows
  - 2. Everyone Follows
  - 3. Only conclusion II follows
  - 4. Only conclusion I follows

Question ID : 753229616

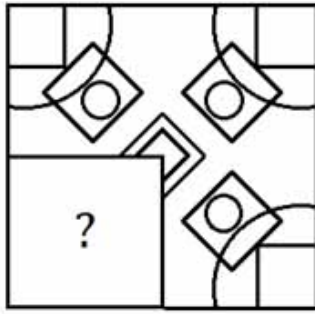
Q.6 Five friends Aman, Chintu, Rahul, Gautam and Pintu are sitting in a row at different places. . Aman is sitting on the left end while Pintu is sitting second from the right end. Rahul is not an immediate neighbor of Aman and Gautam. Only one friend sits between Pintu and Gautam.

Who is sitting in the middle of the row?

- Years
- 1. Aman
  - 2. Gautam
  - 3. Pintu
  - 4. Chintu

Question ID : 753229613

Q.7 From the given alternatives, select the one that will complete the question figure.



Years

✗ 1.



✓ 2.



✗ 3.



✗ 4.



Question ID : 753229626

Q.8 In the following question, select the missing term from the given series.

72000, 36000, 12000, 3000, 600, ?

Years ✗ 1. 150

✗ 2. 160

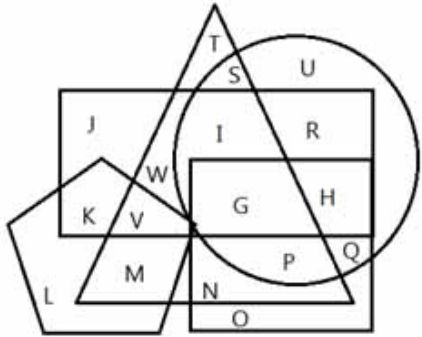
✓ 3. 100

✗ 4. 180

Question ID : 753229619

Q.9 In the following diagram, triangle represents gardener, circle represents money plant, pentagon represents lily, rectangle represents rose and square represents sunflower.

What does the letter 'G' represent?

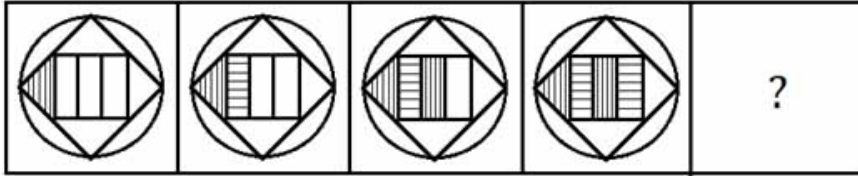


- Years
- 1. Gardener who grows sunflower, rose and lily but not money plant.
  - 2. Gardener who grows moneyplant, rose and lily but not sunflower.
  - 3. Gardener who grows moneyplant, rose and sunflower but not lily
  - 4. Gardener who grows sunflower, money plant and lily but not rose.

Question ID : 753229620

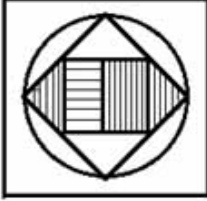
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Q.10 Select the figure that will replace the question mark (?) in the following figure series.

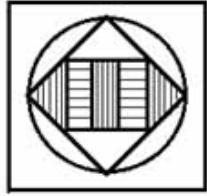


Years

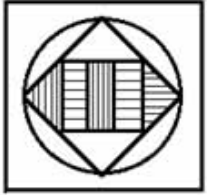
✗ 1.



✓ 2.



✗ 3.



✗ 4.



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Question ID : 753229622

Q.11 Select the related letters from the given alternatives :

MIGRANT : LHFQZMS :: ? : FDKBV

Years ✗ 1. GSRHE

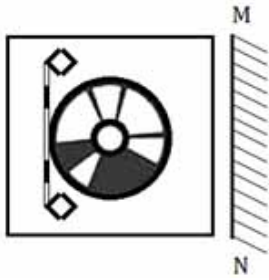
✗ 2. DSRGF

✓ 3. GELCW

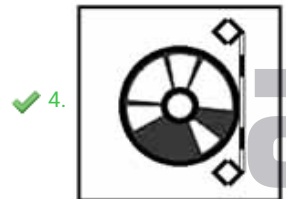
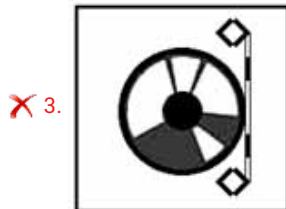
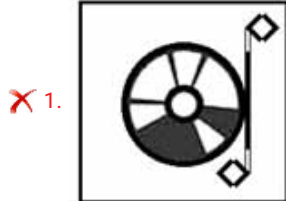
✗ 4. DSGEW

Question ID : 753229609

Q.12 From the given alternatives, select the figure which is the mirror image of the given question figure.



Years



Question ID : 753229624

Q.13 In the question given below, on the basis of the statement two conclusions are drawn. Study the conclusion and select the correct option as the answer.

Statements

$$Y = M < N < B = D; M > Z; N < J$$

Conclusion

I.  $Z < J$

II.  $D > J$

Years ✗ 1. Only follows

✓ 2. Only follows

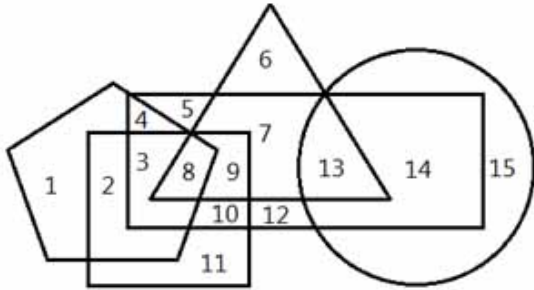
✗ 3. . And. both follow

✗ 4. Either. Or . follows

Question ID : 753229618

Q.14 In the following diagram, triangle represents chef, circle represents cafe, pentagon represents assistant chef, rectangle represents restaurant and square represents hotel.

What does the letter '8' represent ?



- Years
- 1. Chefs who run hotels with their assistant chefs but do not run restaurants and cafes
  - 2. Chefs who run single-handed restaurants, hotels and cafes
  - 3. Chefs who run cafes, hotels but not restaurants with their assistant chefs
  - 4. Chefs who run restaurants, hotels but not cafes with their assistant chefs.

Question ID : 753229621

Q.15 In the following question two statements are given followed by two conclusions numbered I and II You have to take these statements to be true even if they seem to be at variance from commonly known facts. Which of the given conclusions logically follows from the given statement.

Statements:  
All the families are happy.  
Some happy are healthy.

Conclusions:  
(I) Some healthy are families.  
(II) There is no healthy family.

- Years
- 1. Neither conclusion I nor conclusion II follows
  - 2. Only conclusion I follows
  - 3. Either conclusion I or conclusion II follows
  - 4. Only conclusion II follows

Question ID : 753229614

Q.16 In a certain code language, "STOCK" is coded as "NPLAJ". What will be the code for "PRICE" in the same language?

- Years
- 1. KNFAD
  - 2. NPGAC
  - 3. OQHBD
  - 4. NKDAF

Question ID : 753229611



Q.17 In the following question three statements are given followed by two conclusions numbered I and II You have to take these statements to be true even if they seem to be at variance from commonly known facts. Which of the given conclusions logically follows from the given statement.

Statements:

Some buses are cycles.

Some cycles are cars.

No car is scooter.

Conclusions:

(I) Some cars are buses.

(II) Some cars are cycles.

- Years
- 1. Neither conclusion I nor conclusion II follows
  - 2. Both conclusions I and II follow
  - 3. Only conclusion II follows
  - 4. Only conclusion I follows

Question ID : 753229615

Q.18 Find out the wrong term in the following alphabetical series:

REMT, AMVB, JUEJ, SDNR, BKWZ

- Years
- 1. SDNR
  - 2. BKWZ
  - 3. JUEJ
  - 4. AMVB

Question ID : 753229607

Q.19 Find out the odd word from the given alternatives?

- Years
- 1. decibel
  - 2. seconds
  - 3. Hour
  - 4 minutes

Question ID : 753229610

Q.20 Find the missing term in the following letter-group series:

P16HI, ?, B2VW, H8CD, N14JK

- Years
- 1. V22OP
  - 2. V22PO
  - 3. V15OP
  - 4. V8PO

Question ID : 753229608

Q.1 Pattachitra style of painting is one of the oldest and most popular art forms of

\_\_\_\_\_.

- Years
- 1. Chhattisgarh
  - 2. Madhya Pradesh
  - 3. Orissa
  - 4. Maharashtra

Question ID : 753229628

Q.2 What does GDP stand for?

- Years
- 1. Gross Domestic Price
  - 2. Gross Domestic Product
  - 3. Gross Development Product
  - 4. Gross Development Price

Question ID : 753229643

Q.3 \_\_\_\_\_ is situated at top a hill called Nilachal Parvat or Kamagiri in the city of Guwahati.

- Years
- 1. Konark Temple
  - 2. Kamakhya Temple
  - 3. Lingaraja Temple
  - 4. Lotus Temple

Question ID : 753229627

Q.4 In case of emergency in the country, which of the following can suspend the Fundamental Rights?

- Years
- 1. Prime Minister
  - 2. President
  - 3. High Court
  - 4. Supreme Court

Question ID : 753229644

Q.5 No force acts on a current carrying conductor when it is placed \_\_\_\_\_.

- Years
- 1. parallel to the magnetic field
  - 2. perpendicular to the magnetic field
  - 3. far away from the magnetic field
  - 4. inside a magnetic field

Question ID : 753229639

Q.6 In which state is Jelep La Pass located?

- Years  1. Sikkim  
 2. Uttarakhand  
 3. Jammu and Kashmir  
 4. Himachal Pradesh

Question ID : 753229637

Q.7 Khurram was the son of which of the following Mughal emperors?

- Years  1. Aurangzeb  
 2. Humayun  
 3. Babur  
 4. Jahangir

Question ID : 753229632

Q.8 How many banks were nationalized in 1980?

- Years  1. 4  
 2. 11  
 3. 6  
 4. 9

Question ID : 753229642

Q.9 Abdul Hameed is the President of which of the following country?

- Years  1. Bangladesh  
 2. Iraq  
 3. Afghanistan  
 4. Iran

Question ID : 753229635

Q.10 Which of the following is a Rabi crop?

- Years  1. Wheat  
 2. Cotton  
 3. Tides  
 4. Chili

Question ID : 753229638

Q.11 The Bahujan Samaj Party was formed in 1984 under the leadership of \_\_\_\_\_.

- Years  1. Shyama Prasad Mukherjee  
 2. Sunderlal Bahuguna  
 3. Mulayam Singh Yadav  
 4. Kanshi Ram

Question ID : 753229645

Q.12 \_\_\_\_\_ is a dance form that originated from Andhra Pradesh.

- Years
- 1. Kathakali
  - 2. Kuchipudi
  - 3. Kathak
  - 4. Bharata Natyam

Question ID : 753229629

Q.13 When was the Cabinet Mission sent to India?

- Years
- 1. April 1946
  - 2. March 1946
  - 3. May 1946
  - 4. June 1946

Question ID : 753229631

Q.14 Durand Cup is related to which sport?

- Years
- 1. Kabaddi
  - 2. Cricket
  - 3. Football
  - 4. Table-tennis

Question ID : 753229641

Q.15 Where is glycogen stored in the human body?

- Years
- 1. Liver
  - 2. Gallbladder
  - 3. Belly
  - 4. Kidney

Question ID : 753229636

Q.16 Where is Somsila Dam located?

- Years
- 1. Uttar Pradesh
  - 2. Andhra Pradesh
  - 3. Himachal Pradesh
  - 4. Madhya Pradesh

Question ID : 753229646

Q.17 \_\_\_\_\_, Hiuen Tsang, came to India during the reign of Harshavardhana.

- Years
- 1. Francis Traveler
  - 2. Portuguese Travelers
  - 3. Chinese Traveler
  - 4. Russian Traveler

Question ID : 753229630

Q.18 The Nobel Prizes are not awarded for which of the following?

- Years
- 1. Literature
  - 2. Peace
  - 3. Physics
  - 4. Arts

Question ID : 753229640

Q.19 'Be an Exporter Mission' is related to which of the following state?

- Years
- 1. Madhya Pradesh
  - 2. Rajasthan
  - 3. Assam
  - 4. Chhattisgarh

Question ID : 753229634

Q.20 Alfred Nobel belongs to which of the following country?

- Years
- 1. Denmark
  - 2. Sweden
  - 3. Switzerland
  - 4. England

Question ID : 753229633

Section : Arithmetic Ability

Q.1 650 grams of sugar solution contains 55 percent sugar. How much sugar should be added to the mixture so that the amount of sugar becomes 75% of the total mixture?

- Years
- 1. 600 grams
  - 2. 520 grams
  - 3. 540 grams
  - 4. 360 grams

Question ID : 753229657

Q.2 A group of children has 120 chocolates in total. Eight of them each ate 7 chocolates. In the rest, each eats 1 chocolate less than the average number of chocolates eaten by all. What is the maximum number of children that can be in the group?

- Years
- 1. 30
  - 2. 40
  - 3. 60
  - 4. 24

Question ID : 753229651

Q.3 What will come in place of question mark (?) in the following question?

$$\sqrt{324} \times 65 \div 26 + 54 = ?$$

- Years
- 1. 89
  - 2. 98
  - 3. 99
  - 4. 92

Question ID : 753229648

Q.4 P and Q are two numbers such that if P increases by 20 percent and Q decreases by 40 percent, their sum remains the same. P is what percent more than Q?

- Years
- 1. 75 percent
  - 2. 100 percent
  - 3. 50 percent
  - 4. 200 percent

Question ID : 753229652

Q.5 A person makes a profit of 20% by selling an article for Rs.840. If the ratio of marked price and cost price of the article is 10 : 7 respectively, then find the discount percentage given by the person.

- Years
- 1. 12 percent
  - 2. 18 percent
  - 3. 20 percent
  - 4. 16 percent

Question ID : 753229654

Q.6 Find the greatest number by which dividing 34, 58 and 94 gives the same remainder.

- Years
- 1. 12
  - 2. 9
  - 3. 6
  - 4. 8

Question ID : 753229650

Q.7 What is the compound interest on Rs.10,000 in a year at 6 percent per annum if it is compounded half-yearly?

- Years  1. Rs.609  
 2. Rs.600  
 3. Rs.1236  
 4. Rs.703

Question ID : 753229658

Q.8 The ratio of male workers to female workers in factory A is 3 : 4 and in factory B is 5 : 4. The percentage of women who get salary increase in factory A is 70 percent and in factory B is 85 percent. If 12 women in factory A did not get increment and 68 women in factory B got increment, then what can be the ratio of total workers in factory A to total workers in factory B?

- Years  1. 7 : 18  
 2. 5 : 9  
 3. 1 : 2  
 4. 7 : 19

Question ID : 753229656

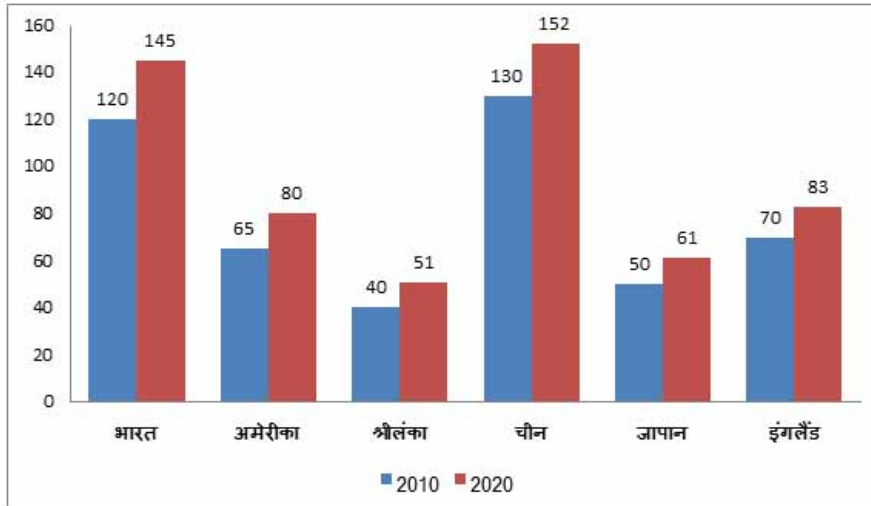
Q.9 A man traveling at three-fourth of his original speed covers a certain distance in two hours more than the time taken by him to cover this distance by walking at his original speed. The time taken by him to cover the distance at his original speed is:

- Years  1. 4.5 hours  
 2. 25 hours  
 3. 6 hours  
 4. 5.5 hours

Question ID : 753229659

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Q.10 The following bar graph shows the population (in millions) of six countries in 2010 and 2020.



What is the range of percentage increase in population in all countries from 2010 to 2020?

- Years
- 1. 15 percent - 26.5 percent
  - 2. 16.92 percent - 27.5 percent
  - 3. 18.33 percent - 30 percent
  - 4. 16.66 percent - 27 percent

Question ID : 753229666

Q.11 If it is known that  $27a^3 - 8b^3 + c^3 = -18abc$ , then-

- Years
- 1.  $2a = b + c$
  - 2.  $3a + c = 2b$
  - 3.  $3b + c = 2a$
  - 4.  $3a = b + c$

Question ID : 753229647

Q.12 The following table shows the average speed (in km/h) of two cars. For example, the average speed of car P and car Q is 50 km/h.

कार	P	Q	R	S	T
P	—	50	52.5	42.5	47.5
Q	50	—	62.5	52.5	57.5
R	52.5	62.5	—	55	60
S	42.5	52.5	55	—	50
T	47.5	57.5	60	50	—

What is the speed of car T?

- Years
- 1. 55 km/h
  - 2. 50 km/h
  - 3. 65 km/h
  - 4. 45 km/h

Question ID : 753229665



Q.13 What will come in place of question mark (?) in the following question?

$$\sqrt{\frac{(1)^2+(9)^2+18}{16}}=?$$

- Years
- 1. 4.0
  - 2. 3.5
  - 3. 2.0
  - 4. 2.5

Question ID : 753229649

Q.14 If the price of rice per kg is reduced by 15 per cent, then a person can buy 1 kg more rice for Rs 85. What quantity of rice can a person buy for Rs 120 as per the initial price of rice?

- Years
- 1. 10 kg
  - 2. 7.5 kg
  - 3. 5.5 kg
  - 4. 8 kg

Question ID : 753229653

Q.15 56 men can complete a piece of work in 24 days. In how many days can 42 men complete the same work?

- Years
- 1. 18 days
  - 2. 98 days
  - 3. 48 days
  - 4. 32 days

Question ID : 753229662

Q.16 A woman makes tea for her family members and herself in a cylindrical vessel of radius 10.5 cm and height 10 cm. The volume of tea is 40 percent of the volume of the vessel. If the family of each member of 49 cm<sup>3</sup> do drink tea, do not know the total number of members in the family.

- Years
- 1. 7
  - 2. 9
  - 3. 6
  - 4. 8

Question ID : 753229664

Q.17 Find the area (in sq cm) of a rhombus whose side is 24 cm and one diagonal is 44 cm?

- Years
- 1.  $88\sqrt{23}$
  - 2.  $45\sqrt{23}$
  - 3.  $807\sqrt{23}$
  - 4.  $90\sqrt{23}$

Question ID : 753229663

Q.18 On selling 144 oranges, there is a loss equal to the selling price of 6 oranges. Calculate the loss percent age.

- Years
- 1. 1.2 percent
  - 2. 3 percent
  - 3. 4 percent
  - 4. 5 percent

Question ID : 753229655

Q.19 A and B together can complete the work in 8 days while B and C together can complete the work in 12 days. A worked for 4 days, B worked for 6 days and C completed the remaining work in 11 days. In how many days can C alone complete the work?

- Years
- 1. 27 days
  - 2. 18 days
  - 3. 17 days
  - 4. 11 days

Question ID : 753229661

Q.20 A certain distance is covered in a certain amount of time. If 60 percent more distance is covered in 35 percent less time, then find the ratio of speed in both the cases.

- Years
- 1. 12 : 17
  - 2. 13 : 32
  - 3. 35 : 16
  - 4. 15 : 22

Question ID : 753229660

Section : General English

Q.1 Select the CORRECTLY spelt word.

- Years  1. Tropical  
 2. Trapical  
 3. Tropicol  
 4. Tropical

Question ID : 753229678

Q.2 Select the most appropriate option to fill in the blanks.

"It is clear that each of these draft \_\_\_\_\_ is part of a larger plan that \_\_\_\_\_ against the ethos and interests of the islands and islanders.

- Years  1. regulations, is  
 2. regulation, is  
 3. regulations, are  
 4. regulation, are

Question ID : 753229673

Q.3 Select the most appropriate option to substitute the bracketed part in the given sentence. If there is no need to substitute the bracketed part, select 'No improvement'.

(As I did not think it was proper to) acquaint her yet with what had happened, I made an excuse.

- Years  1. As I did not think properly to  
 2. No Improvement.  
 3. As I did not think it being proper to  
 4. As I did not properly think to

Question ID : 753229670

Q.4 In the following question, there are six sentences marked S1, S6, P, Q, R, and S. The positions of S1 and S6 are fixed. You are required to choose one of the four alternatives which would be the most logical sequence of the sentence in the passage.

S1. Although fruits can no longer grow once picked,  
P. taking in oxygen and  
Q. they continue to respire for some time,  
R. giving off carbon dioxide,  
S. just as human beings do  
S6. when they breathe.

- Years  1. PRSQ  
 2. RPQS  
 3. QPRS  
 4. SQPR

Question ID : 753229674

Q.5 Select the most appropriate antonym for the given word.

Squander

- Years
- 1. Persecute
  - 2. Posit
  - 3. Confine
  - 4. Save

Question ID : 753229676

Q.6 Select the most appropriate option to fill in the blank.

Rumours spread that he \_\_\_\_\_ soon order the army to open fire.

- Years
- 1. will
  - 2. will be
  - 3. would have
  - 4. would be

Question ID : 753229671

Q.7 Select the INCORRECTLY spelt word.

- Years
- 1. Canine
  - 2. Bolster
  - 3. Compile
  - 4. Leatherette

Question ID : 753229677

Q.8 Select the most appropriate option to fill in the blanks.

Dharmendra is going \_\_\_\_\_ the knife next month to try to \_\_\_\_\_ his knee problems.

- Years
- 1. above, solve
  - 2. under, solve
  - 3. above, solved
  - 4. under, solving

Question ID : 753229672

Q.9 Select the word which means the same as the group of the words given.

One who wants to destroy the government.

- Years
- 1. Amphibian
  - 2. Anarchist
  - 3. Criminal
  - 4. Vandals

Question ID : 753229681

Q.10 Select the most appropriate synonym for the given word.

**Benevolent**

- Years  1. Gracious  
 2. Barbaric  
 3. Cruel  
 4. Savage

Question ID : 753229675

Q.11 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute the underlined segment, select 'No improvement'.

Our meals usually have at least one item make of some kinds of grain.

- Years  1. makes of kind  
 2. making of any kinds  
 3. made of some kind  
 4. No substitution required

Question ID : 753229669

Q.12 One part of the sentence below may contain an error. Identify the part. If there is no error, choose 'No error'.

My father identified the person who has won a beautiful car in the lottery yesterday.

- Years  1. My father identified the person  
 2. in the lottery yesterday.  
 3. No mistake.  
 4. who has won a beautiful car

Question ID : 753229668

Q.13 In the following question, out of the four given options, select the one which best expresses the meaning of the idiom/phrase.

**Play it by ear.**

- Years  1. To focus on one thing.  
 2. Last try before giving up.  
 3. A fleeting moment.  
 4. Act without preparation.

Question ID : 753229679

Q.14 One part of the sentence below may contain an error. Identify the part. If there is no error, choose 'No error'.

The World Health Organisation's experts says that immunising children against the coronavirus "is not a high priority" given the extremely limited global supply of vaccines.

- Years
- 1. given the extremely limited global supply of vaccines.
  - 2. children against the coronavirus "is not a high priority"
  - 3. No mistake.
  - 4. The World Health Organisation's experts says that immunising

Question ID : 753229667

Q.15 In the following question, out of the four given options, select the one which best expresses the meaning of the idiom/phrase.

Get the axe.

- Years
- 1. Lose the job.
  - 2. Examining a group of people and deciding their suitability.
  - 3. Examining something carefully to not miss out any details.
  - 4. Proving the effectiveness of something.

Question ID : 753229680



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### Comprehension:

Read the following passage and answer the questions below.

Arthur Wellesley, 1st Duke of Wellington, KG, GCB, GCH, PC, FRS, was an Anglo-Irish soldier and a Tory statesman who was one of the leading military and political figures of 19th-century Britain, serving twice as the prime minister. He ended the Napoleonic Wars when he defeated Napoleon at the Battle of Waterloo in 1815.

Wellesley was born in Dublin into the Protestant Ascendancy in Ireland. He was commissioned as an ensign in the British Army in 1787, serving in Ireland as aide-de-camp to two successive lords lieutenant of Ireland. He was also elected as a Member of Parliament in the Irish House of Commons. He was a colonel by 1796 and saw action in the Netherlands and in India, where he fought in the Fourth Anglo-Mysore War at the Battle of Seringapatam. He was appointed governor of Seringapatam and Mysore in 1799 and, as a newly appointed major-general, won a decisive victory over the Maratha Confederacy at the Battle of Assaye in 1803.

Wellesley rose to prominence as a general during the Peninsular campaign of the Napoleonic Wars and was promoted to the rank of field marshal after leading the allied forces to victory against the French Empire at the Battle of Vitoria in 1813. Following Napoleon's exile in 1814, he served as the ambassador to France and was granted a dukedom. During the Hundred Days in 1815, he commanded the allied army, which, together with a Prussian Army under Blücher, defeated Napoleon at Waterloo. Wellington's battle record is exemplary; he ultimately participated in some 60 battles during his military career. Wellington is famous for his adaptive defensive style of warfare, resulting in several victories against numerically superior forces while minimising his losses. He is regarded as one of the greatest defensive commanders of all time, and many of his tactics and battle plans are still studied in military academies around the world. After the end of his active military career, he returned to politics. He was twice British prime minister as a member of the Tory party from 1828 to 1830 and for a little less than a month in 1834.

#### SubQuestion No : 16

Q.16 As a newly appointed Major-General, Arthur Wellesley won a decisive victory at

- Years -----
- 1. Many places in England.
  - 2. Battle of Waterloo.
  - 3. Battle of Assaye.
  - 4. Battle of Seringapatam.

Question ID : 753229683

adda247

### Comprehension:

Read the following passage and answer the questions below.

Arthur Wellesley, 1st Duke of Wellington, KG, GCB, GCH, PC, FRS, was an Anglo-Irish soldier and a Tory statesman who was one of the leading military and political figures of 19th-century Britain, serving twice as the prime minister. He ended the Napoleonic Wars when he defeated Napoleon at the Battle of Waterloo in 1815.

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#### SubQuestion No : 17

Q.17 What does the word 'exemplary' mean in the given passage?

- Years
- 1. Lacking
  - 2. Dishonorable
  - 3. Disparaging
  - 4. Commendable

Question ID : 753229686

adda247



### Comprehension:

Read the following passage and answer the questions below.

Arthur Wellesley, 1st Duke of Wellington, KG, GCB, GCH, PC, FRS, was an Anglo-Irish soldier and a Tory statesman who was one of the leading military and political figures of 19th-century Britain, serving twice as the prime minister. He ended the Napoleonic Wars when he defeated Napoleon at the Battle of Waterloo in 1815.

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#### SubQuestion No : 18

Q.18 Which of the following statements is not correct?

Years  1. Wellesley had never been a colonel.

2. Following Napoleon's exile, Wellesley served as the ambassador to France.

3. Wellington is famous for his adaptive defensive style of warfare.

4. Wellesley rose to prominence as a general during the Peninsular campaign of the Napoleonic Wars.

Question ID : 753229685

adda247

### Comprehension:

Read the following passage and answer the questions below.

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#### SubQuestion No : 19

Q.19 After the end of his active military career, Arthur Wellesley went into \_\_\_\_\_.

- Years
- 1. Poetry
  - 2. Training of young soldiers
  - 3. Politics
  - 4. Adaptive defensive style of warfare

Question ID : 753229687

adda247

### Comprehension:

Read the following passage and answer the questions below.

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#### SubQuestion No : 20

**Q.20 Arthur Wellesley ended the Napoleonic Wars when he defeated Napoleon. Where was Napoleon defeated?**

- Years
- 1. Waterloo
  - 2. Wellington
  - 3. Tory
  - 4. Dublin

Question ID : 753229684

Section: General No.

**Q.1 Select the corresponding word from the following-**

- Years
- 1. Chitera
  - 2. Chatika
  - 3. Fourth
  - 4. Cham

Question ID : 753229689

**Q.2 Which of the following sentences is not spelled incorrectly?**

- Years
- 1. The Mahabharata continued for eighteen days.
  - 2. Today the disciple is also cutting the ear of the Guru.
  - 3. He had tea with us.
  - 4. This is my brother. He lives with me.

Question ID : 753229698

Q.3 Which of the following is the antonym of "disarmament"?

- Years
- 1. Select
  - 2. Unintentional
  - 3. Disarmament
  - 4. inferior

Question ID : 753229694

Q.4 Select a word for the given phrase- joining the different elements into one

- Years
- 1. shakt
  - 2. extraterrestrial
  - 3. Sweated
  - 4. Synthesis

Question ID : 753229695

Q.5 Which of the following symbols is used "for instruction in a play or a single"?

- Years
- 1. semicolon
  - 2. Colon sign
  - 3. comma
  - 4. Cosmic symbols

Question ID : 753229702

Q.6 Which of the following words is an example of a possessive noun?

- Years
- 1. youth
  - 2. Iron
  - 3. Stack
  - 4. Team

Question ID : 753229691

Q.7 What is the meaning of the phrase "leprosy in leprosy"?

- Years
- 1. Have faith in anything.
  - 2. Having more income.
  - 3. Having one sorrow on another.
  - 4. To be very happy.

Question ID : 753229700

Q.8 Select the misspelled word from the following-

- Years
- 1. oldest
  - 2. Ignite
  - 3. Kanhaiya
  - 4. Motherland

Question ID : 753229693

Q.9 Which of the following sentences is an example of which tense?

The construction work of Taj Mahal was going on.

- Years
- 1. Cause-Hetumad Future Tense
  - 2. imminent past
  - 3. cause-hetumad past tense
  - 4. imperfect past tense

Question ID : 753229696

Q.10 Which of the following words is formed using suffixes?

- Years
- 1. Consulting
  - 2. Kinship
  - 3. nuisance
  - 4. everyday

Question ID : 753229690

Q.11 Which of the following words is an example of a disjunction?

- Years
- 1. Poetry
  - 2. bad character
  - 3. Introduction
  - 4. Manic

Question ID : 753229688

Q.12 What is the meaning of the following proverb "what is in the handi will come in the plate"?

- Years
- 1. Only one who suffers can understand the suffering of others.
  - 2. Whatever is in the mind will manifest itself.
  - 3. The criminal is always suspicious.
  - 4. Speaking loudly of small people.

Question ID : 753229701

Q.13 Which of the following is a synonym for "rainbow"?

Years  1. Surcheep

2. Manorath

3. Bacher

4. speed

Question ID : 753229692

Q.14 Which factor is used in the sentence given below?

Chief Minister Shivraj Singh Chouhan distributed food grains for the flood victims.

Years  1. Extinguishing factor

2. tax factor

3. causative agent

4. Delivery factor

Question ID : 753229697

Q.15 Choose the type of speech from the following -

Nehru renounced all amenities for his country.

Years  1. कर्तृवाच्य?? य

2. verb

3. Emotions

4. Karmavachnya

Question ID : 753229699

adda247

**Comprehension:**

Study the following passage carefully and answer the questions-

The individual is the unit of the society and education enables the individual to experience Sat, Chit and Ananda. Education means the art of learning to live. So we live in society. Society is the primary source of education. Thus there is a close relationship between education and society. Education and educational institutions have a special place in the society because it is from here that future citizens get molded. Today, special emphasis is being given to the question of moral education to refine the basic form of society. The need has been felt that our beliefs are being eroded. The root cause of the immorality which is increasing day by day in social life is the lack of moral education. Today we have made material progress as the sole aim, we are becoming more materialistic than materialistic and that is why failures are blocking our path. Today the importance of education is only bookish knowledge which is getting molded in books. This educational process does not become synonymous with mechanization and the nature of practical good education should be developed, for this it is necessary that education of moral values should be given, otherwise there will be no change in society. The crime trend will continue to increase. If we want to establish harmony in life, then along with material progress, it is necessary to keep conscious of spiritual progress. Lack of mental and spiritual discipline is the main reason for the indiscipline, frustration and discouragement prevailing among the students today. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education. The main reason for despair and discouragement is the lack of mental and spiritual discipline. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education. The main reason for despair and discouragement is the lack of mental and spiritual discipline. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education.

**SubQuestion No : 16**

**Q.16** According to the above passage, today we have made material progress as the sole aim, we are becoming \_\_\_\_\_ from materialistic and that is why failures are blocking our path.

- Years
- 1. Materialism
  - 2. Materialism and Materialism
  - 3. Materialism
  - 4. Materialist

adda247

Question ID : 753229708

**Comprehension:**

Study the following passage carefully and answer the questions-

The individual is the unit of the society and education enables the individual to experience Sat, Chit and Ananda. Education means the art of learning to live. So we live in society. Society is the primary source of education. Thus there is a close relationship between education and society. Education and educational institutions have a special place in the society because it is from here that future citizens get molded. Today, special emphasis is being given to the question of moral education to refine the basic form of society. The need has been felt that our beliefs are being eroded. The root cause of the immorality which is increasing day by day in social life is the lack of moral education. Today we have made material progress as the sole aim, we are becoming more materialistic than materialistic and that is why failures are blocking our path. Today the importance of education is only bookish knowledge which is getting molded in books. This educational process does not become synonymous with mechanization and the nature of practical good education should be developed, for this it is necessary that education of moral values should be given, otherwise there will be no change in society. The crime trend will continue to increase. If we want to establish harmony in life, then along with material progress, it is necessary to keep conscious of spiritual progress. Lack of mental and spiritual discipline is the main reason for the indiscipline, frustration and discouragement prevailing among the students today. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education. The main reason for despair and discouragement is the lack of mental and spiritual discipline. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education.

**SubQuestion No : 17**

**Q.17 Which of the following is the proper title of the above passage?**

- Years  1. The utility of moral education.
2. Man's practice of indiscipline.
3. The highest unit of society: the individual.
4. Spiritual progress of man.

Question ID : 753229704

adda247



**Comprehension:**

Study the following passage carefully and answer the questions-

The individual is the unit of the society and education enables the individual to experience Sat, Chit and Ananda. Education means the art of learning to live. So we live in society. Society is the primary source of education. Thus there is a close relationship between education and society. Education and educational institutions have a special place in the society because it is from here that future citizens get molded. Today, special emphasis is being given to the question of moral education to refine the basic form of society. The need has been felt that our beliefs are being eroded. The root cause of the immorality which is increasing day by day in social life is the lack of moral education. Today we have made material progress as the sole aim, we are becoming more materialistic than materialistic and that is why failures are blocking our path. Today the importance of education is only bookish knowledge which is getting molded in books. This educational process does not become synonymous with mechanization and the nature of practical good education should be developed, for this it is necessary that education of moral values should be given, otherwise there will be no change in society. The crime trend will continue to increase. If we want to establish harmony in life, then along with material progress, it is necessary to keep conscious of spiritual progress. Lack of mental and spiritual discipline is the main reason for the indiscipline, frustration and discouragement prevailing among the students today. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education. The main reason for despair and discouragement is the lack of mental and spiritual discipline. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education.

**SubQuestion No : 18**

**Q.18** According to the above passage, the main reasons for the indiscipline, frustration and discouragement prevailing among the students today are mental and \_\_\_\_\_.

Years

- 1. Lack of spiritual discipline.
- 2. Abundance of spiritual discipline.
- 3. Lack of prehistoric discipline
- 4. The abundance of prehistoric discipline.

Question ID : 753229707

adda247

**Comprehension:**

Study the following passage carefully and answer the questions-

The individual is the unit of the society and education enables the individual to experience Sat, Chit and Ananda. Education means the art of learning to live. So we live in society. Society is the primary source of education. Thus there is a close relationship between education and society. Education and educational institutions have a special place in the society because it is from here that future citizens get molded. Today, special emphasis is being given to the question of moral education to refine the basic form of society. The need has been felt that our beliefs are being eroded. The root cause of the immorality which is increasing day by day in social life is the lack of moral education. Today we have made material progress as the sole aim, we are becoming more materialistic than materialistic and that is why failures are blocking our path. Today the importance of education is only bookish knowledge which is getting molded in books. This educational process does not become synonymous with mechanization and the nature of practical good education should be developed, for this it is necessary that education of moral values should be given, otherwise there will be no change in society. The crime trend will continue to increase. If we want to establish harmony in life, then along with material progress, it is necessary to keep conscious of spiritual progress. Lack of mental and spiritual discipline is the main reason for the indiscipline, frustration and discouragement prevailing among the students today. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education. The main reason for despair and discouragement is the lack of mental and spiritual discipline. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education. The main reason for despair and discouragement is the lack of mental and spiritual discipline. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education.

**SubQuestion No : 19**

**Q.19 According to the above passage, what is the meaning of education?**

- Years  1. Making only high profit.
2. The art of learning to live.
3. Earning profit of educational institutions through education.
4. Earning dividends by gaining a lot of knowledge.

Question ID : 753229705

adda247

**Comprehension:**

Study the following passage carefully and answer the questions-

The individual is the unit of the society and education enables the individual to experience Sat, Chit and Ananda. Education means the art of learning to live. So we live in society. Society is the primary source of education. Thus there is a close relationship between education and society. Education and educational institutions have a special place in the society because it is from here that future citizens get molded. Today, special emphasis is being given to the question of moral education to refine the basic form of society. The need has been felt that our beliefs are being eroded. The root cause of the immorality which is increasing day by day in social life is the lack of moral education. Today we have made material progress as the sole aim, we are becoming more materialistic than materialistic and that is why failures are blocking our path. Today the importance of education is only bookish knowledge which is getting molded in books. This educational process does not become synonymous with mechanization and the nature of practical good education should be developed, for this it is necessary that education of moral values should be given, otherwise there will be no change in society. The crime trend will continue to increase. If we want to establish harmony in life, then along with material progress, it is necessary to keep conscious of spiritual progress. Lack of mental and spiritual discipline is the main reason for the indiscipline, frustration and discouragement prevailing among the students today. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education. The main reason for despair and discouragement is the lack of mental and spiritual discipline. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education. The main reason for despair and discouragement is the lack of mental and spiritual discipline. Therefore, it is very important to give moral education to inculcate strong values in the students from the very beginning to build character and to inculcate the feeling of patriotism. It is impossible to imagine a healthy society without moral education.

**SubQuestion No : 20**

**Q.20 Which statement is not correct in the context of the above passage?**

- Years  1. There is a close relationship between education and society.
2. The root cause of the immorality which is increasing day by day in social life is the lack of moral education.
3. It is possible to imagine a healthy society even without moral education.
4. Today the importance of education is only bookish knowledge which is getting molded in books.

Question ID : 753229706

Section : Discipline1

**Q.1 A ball is thrown up with a speed of 2m/s. If  $g = 10\text{m/s}^2$ , then find the maximum height of the ball?**

- Years  1. 0.40 m
2. 0.80 m
3. 0.20 m
4. 0.10 m

Question ID : 753229711

Q.2 A man walks at 8 km/h for 2 km and at 9 km/h for 3 km. What is the average speed for 5 km?

- Years  1. 8.75 km/h  
 2. 6.25 km/h  
 3. 9.75 km/h  
 4. 8 km/h

Question ID : 753229717

Q.3 A typical cell develops a voltage of 0.5–1 V and can produce about \_\_\_\_\_ of electricity when exposed to the Sun.

- Years  1. 0.3 W  
 2. 0.7 W  
 3. 3 W  
 4. 5 W

Question ID : 753229728

Q.4 In the case of a concave mirror, if we place the object between the center of curvature and focus of the mirror, what will be the position of the image?

- Years  1. Between focus and center of curvature  
 2. beyond the center of curvature  
 3. at the center of curvature  
 4. Focus on

Question ID : 753229723

Q.5 Nucleus contains about \_\_\_\_\_ percent of the mass of the atom.

- Years  1. 99.98  
 2. 75  
 3. 92  
 4. 88.9

Question ID : 753229715

Q.6 What is the absolute refractive index of kerosene?

- Years  1. 1.31  
 2. 1.46  
 3. 1.44  
 4. 1.47

Question ID : 753229724

Q.7 If a projectile is fired with a speed  $u$  of an angle  $\theta$  with the horizontal, then what will be its speed ( $v$ ) when its direction of motion makes an angle  $\alpha$  with the horizontal?

- Years
- 1.  $v = u \cos \alpha \sec \theta$
  - 2.  $v = u^2 \cos \alpha \sec \theta$
  - 3.  $v^2 = u \cos \theta \sec \alpha$
  - 4.  $v = u \cos \theta \sec \alpha$

Question ID : 753229714

Q.8 What is the position of an object in front of a concave mirror so that the magnification produced by the mirror is 1?

- Years
- 1. Beyond centre of curvature
  - 2. At the focus
  - 3. At pole
  - 4. At the centre of curvature

Question ID : 753229722

Q.9 In an ideal spring, the spring force  $F_s$  is proportional to  $x$  where  $x$  is the displacement of the block from the equilibrium position. The displacement could be either positive or negative. This force law for the spring is called Hooke's law and is mathematically stated as:

- Years
- 1.  $F_s = kx$
  - 2.  $F_s = k/x$
  - 3.  $F_s = -kx$
  - 4.  $F_s = k + x$

Question ID : 753229719

Q.10 Which one of the following is not associated with a good source of energy?

- Years
- 1. It gives minimum amount of work per unit volume or mass.
  - 2. Easy to store and transport
  - 3. Simply accessible
  - 4. Moderate price rate

Question ID : 753229726

Q.11 If a particle travels a distance ' $s$ ' in time  $t_1$  to  $t_2$ , the average speed  $V_{av}$  is \_\_\_\_\_.

- Years
- 1.  $\frac{s}{2(t_2 - t_1)}$
  - 2.  $s(t_2 - t_1)$
  - 3.  $\frac{2s}{t_2 - t_1}$
  - 4.  $\frac{s}{t_2 - t_1}$

Question ID : 753229710

Q.12 \_\_\_\_\_ is/are called fluid/s.

1. Liquid
2. Gas

- Years
- 1. 1 only
  - 2. Both 1 and 2
  - 3. Neither 1 nor 2
  - 4. 2 only

Question ID : 753229720

Q.13 Which of the following is/are type/s of forces in nature?

1. Gravitational
2. Electromagnetic
3. Nuclear
4. Weak

Choose the correct one.

- Years
- 1. 1, 2, 3 and 4 only
  - 2. 1, 3 and 4 only
  - 3. 1, 2 and 3 only
  - 4. 1 and 2 only

Question ID : 753229713

Q.14 Where does the centre of curvature of a concave mirror lie?

- Years
- 1. In the back of mirror
  - 2. On the mirror
  - 3. In front of the mirror
  - 4. On the aperture of the mirror

Question ID : 753229721

Q.15 According to sign convention, the focal length of a convex mirror is \_\_\_\_\_.

- A. Positive
- B. Negative

- Years
- 1. Only B
  - 2. Both A and B
  - 3. Only A
  - 4. Either A or B

Question ID : 753229725

Q.16 Projectile motion is an example of motion in a plane with \_\_\_\_\_ acceleration.

- Years
- 1. Increasing
  - 2. Constant
  - 3. Decreasing
  - 4. Zero

Question ID : 753229712

Q.17 Which of the following statements is/are true?

1. If a body changes its position with time it is said to be moving
2. Nothing is in absolute rest or in absolute motion

- Years
- 1. Both 1 and 2
  - 2. Neither 1 nor 2
  - 3. 1 only
  - 4. 2 only

Question ID : 753229709

Q.18 Which of the following equation is also a special case of the work-energy (WE) theorem?  
(where  $a$  is acceleration,  $u$  and  $v$  are the initial and final speeds and  $s$  the distance traversed.)

- Years
- 1.  $v^2 + u^2 = 2as$
  - 2.  $v^2 \cdot u^2 = 2as$
  - 3.  $v^2 \cdot u = 2as$
  - 4.  $v^2 - u^2 = 2as$

Question ID : 753229718

Q.19 Which of the following statement is correct about action and reaction?

- Years
- 1. Both act on the same object
  - 2. Both Have same direction
  - 3. Both may or may not have equal magnitude
  - 4. Both act along the line joining the bodies

Question ID : 753229716

Q.20 Up to what percentage of methane is contained by biogas?

- Years
- 1. 85 percent
  - 2. 95 percent
  - 3. 75 percent
  - 4. 65 percent

Question ID : 753229727

Section : Discipline2

Q.1 \_\_\_\_\_ is the boiling point of  $\text{CaCl}_2$ .

- Years
- 1. 1600 K
  - 2. 1708 K
  - 3. 1738 K
  - 4. 1900 K

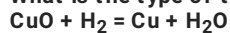
Question ID : 753229741

Q.2 Which statement is true for a solenoid?

- Years  1. A strong magnetic field is produced inside a solenoid.
2. Inside a solenoid electric field is zero.
3. A solenoid is made up of magnet.
4. A solenoid does not behave like a magnet.

Question ID : 753229732

Q.3 What is the type of the following reaction?



- Years  1. Redox
2. Oxidation
3. Reduction
4. Displacement

Question ID : 753229738

Q.4 Which one of the following is the general formula of Alkenes?

- Years  1.  $\text{C}_n\text{H}_{2n}$
2.  $\text{C}_n\text{H}_n$
3.  $\text{C}_n\text{H}_{2n+2}$
4.  $\text{C}_n\text{H}_{2n+1}$

Question ID : 753229743

Q.5 In vinegar, what is the percentage of acetic acid dissolved in water?

- Years  1. 8 – 10 percent
2. 3 – 5 percent
3. 7 – 9 percent
4. 5 – 8 percent

Question ID : 753229745

Q.6 What is the radius of a hydrogen atom?

- Years  1. 97 pm
2. 57 pm
3. 37 pm
4. 102 pm

Question ID : 753229747



Q.7 What is the colour of the flame when alkenes are burnt?

- Years
- 1. White
  - 2. Yellow
  - 3. Blue
  - 4. Grey

Question ID : 753229744

Q.8 Which one of the following is known as Slaked Lime?

- Years
- 1. Calcium carbonate
  - 2. Calcium hydroxide
  - 3. Calcium chloride
  - 4. Calcium oxide

Question ID : 753229736

Q.9 A man picks up a bag of weight of 15 kg from the ground and puts it on his head 1.5 m above the ground. What is the work done by him on the bag?

- Years
- 1. 125 J
  - 2. 175 J
  - 3. 225 J
  - 4. 200 J

Question ID : 753229735

Q.10 What are the properties of the image formed by the plane mirror?

- A. Virtual and inverted
- B. Virtual and erect

- Years
- 1. B is true
  - 2. Both are true
  - 3. A and B both are false
  - 4. A is true

Question ID : 753229731

Q.11 What is the relation between Volt (V) and Joule (J)?

- Years
- 1.  $1 \text{ J} = \frac{1 \text{ V}}{1 \text{ C}}$
  - 2.  $1 \text{ J} = 1 \text{ V} - 1 \text{ C}$
  - 3.  $1 \text{ V} = \frac{1 \text{ J}}{1 \text{ C}}$
  - 4.  $1 \text{ V} = 1 \text{ J} \times 1 \text{ C}$

Question ID : 753229730

Q.12 Why did Rutherford select a gold foil for his experiment of finding the model of an atom?

- Years
- 1. As it is lustrous
  - 2. As it is ductile
  - 3. As it is a noble metal
  - 4. As it is thin

Question ID : 753229748

Q.13 Which of the following is not used as food preservatives?

- 1. Sodium Benzoate
- 2. Salts of sorbic acid

- Years
- 1. 2 only
  - 2. 1 only
  - 3. Neither 1 nor 2
  - 4. Both 1 and 2

Question ID : 753229742

Q.14 When preparing systematic diagram of hydro power plant which of the following is not a component of it?

- 1. Generator
- 2. Turbine

- Years
- 1. 2 only
  - 2. 1 only
  - 3. Both 1 and 2
  - 4. Neither 1 nor 2

Question ID : 753229734

Q.15 A galvanometer behaves like an ammeter when shunt resistance of very small value is added in \_\_\_\_\_.

- A. Parallel
- B. Series

- Years
- 1. Only A
  - 2. Either A or B
  - 3. Only B
  - 4. Both A and B

Question ID : 753229733

Q.16 What number of elements existed in nature was assumed by Newlands?

- Years
- 1. 55
  - 2. 56
  - 3. 53
  - 4. 54

Question ID : 753229746

Q.17 What is the colour of the white silver chloride when it is placed in direct sunlight?

- Years
- 1. Green
  - 2. Black
  - 3. Grey
  - 4. Brown

Question ID : 753229737

Q.18 \_\_\_\_\_ is one of the chemical used to produce Ocean Thermal Energy.

- Years
- 1.  $\text{NH}_3$
  - 2. HCl
  - 3.  $\text{N}_2$
  - 4.  $\text{H}_2$

Question ID : 753229729

Q.19 Which one of the following is an example of Amphoteric Oxide?

- Years
- 1. Sodium Oxide
  - 2. Mercuric Oxide
  - 3. Zinc Oxide
  - 4. Copper Oxide

Question ID : 753229740

Q.20 Which one of the following is the best conductor of heat?

- Years
- 1. Copper
  - 2. Iron
  - 3. Gold
  - 4. Carbon

Question ID : 753229739

Section : Discipline3

Q.1 Which of the following fungi is responsible for ringworm which is one of the most common infectious disease in humans?

- Years
- 1. Tricophyton
  - 2. Candida
  - 3. Fusarium
  - 4. Aspergillus

Question ID : 753229766

**Q.2 The primary and secondary immune responses are carried out with the help of two special types of lymphocytes present in our blood which are:**

- Years
- 1. A-lymphocytes and F-lymphocytes
  - 2. B-lymphocytes and P-lymphocytes
  - 3. B-lymphocytes and T-lymphocytes
  - 4. M-lymphocytes and I-lymphocytes

Question ID : 753229765

**Q.3 What is the mass of 0.5 mole of calcium atom? (AMU of calcium is 40)**

- Years
- 1. 20 g
  - 2. 40.5 g
  - 3. 2 g
  - 4. 39.5 g

Question ID : 753229756

**Q.4 Which of the following is a property of an isobar?**

- Years
- 1. They have same chemical property
  - 2. They have same mass number
  - 3. They have same neutron number
  - 4. They have same atomic number

Question ID : 753229751

**Q.5 \_\_\_\_\_ is the change of solid state directly to gaseous state without going through liquid state.**

- Years
- 1. Deposition
  - 2. Sublimation
  - 3. Boiling
  - 4. Evaporation

Question ID : 753229753

**Q.6 Nitrogen gas occurs in \_\_\_\_\_ in our atmosphere.**

- Years
- 1. 85-90 percent
  - 2. 90-95 percent
  - 3. 80-85 percent
  - 4. 75-80 percent

Question ID : 753229767

**Q.7 Washing soda is used in:**  
1. Removing permanent hardness of water  
2. Glass, Soap and paper industries

- Years  1. Only 1  
 2. Both 1 and 2  
 3. Only 2  
 4. Either 1 or 2

Question ID : 753229761

**Q.8 Which one of the following is dispersing medium for Emulsion?**  
A. Gas  
B. Liquid  
C. Solid

- Years  1. A and C only  
 2. Only B  
 3. B and C only  
 4. Only A

Question ID : 753229754

**Q.9 How many electrons are present in the outermost shell of Silicon?**

- Years  1. 2  
 2. 4  
 3. 3  
 4. 1

Question ID : 753229749

**Q.10 What is the pH of the mouth when tooth decay starts?**

- Years  1. Lower than 4.8  
 2. Lower than 6  
 3. Lower than 5  
 4. Lower than 5.5

Question ID : 753229759

**Q.11 Single-celled organisms can produce two equal daughter-cells by -**

- Years  1. Budding  
 2. Binary fission  
 3. Encystation  
 4. Sporulation

Question ID : 753229764

Q.12 \_\_\_\_\_ water molecules are present in one formula unit of Washing Soda.

Years  1. 10

2. 2

3. 6

4. 5

Question ID : 753229760

Q.13 Synthetic detergents are classified into how many categories?

Years  1. 3

2. 5

3. 2

4. 4

Question ID : 753229763

Q.14 Calcium sulphate hemihydrate is another name of:

Years  1. Baking Soda

2. Washing Soda

3. Bleaching Soda

4. Plaster of Paris

Question ID : 753229762

Q.15 What is the original colour of Litmus solution?

Years  1. Purple

2. Blue

3. Pink

4. Red

Question ID : 753229757

Q.16 Which one of the following state consists a super energetic and super excited particle?

A. Plasma State

B. Bose-Einstein Condensate

Years  1. Only A

2. Neither A nor B

3. Both A and B

4. Only B

Question ID : 753229752

Q.17 Which gas is formed when metal hydrogen carbonates react with acids?

- Years
- 1. CO
  - 2. H<sub>2</sub>
  - 3. CO<sub>2</sub>
  - 4. O<sub>2</sub>

Question ID : 753229758

Q.18 What is the number of valence electron present in Al<sup>+</sup> ion?

- Years
- 1. 3
  - 2. 1
  - 3. 2
  - 4. 0

Question ID : 753229750

Q.19 Calculate the number of moles present in 120 g of Mg. (AMU of Mg is 24)

- Years
- 1. 2
  - 2. 3
  - 3. 4
  - 4. 5

Question ID : 753229755

Q.20 Which of the following is present at the growing tips of stems and roots and increases the length of the stem and the root?

- Years
- 1. Intercalary meristem
  - 2. Vacuoles
  - 3. Apical meristem
  - 4. Cambium

Question ID : 753229768

Section : Discipline4

Q.1 When the terminal phosphate linkage in ATP is broken using water, the energy released is equivalent to \_\_\_\_\_.

- Years
- 1. 111 kJ / mol
  - 2. 89 kJ / mol
  - 3. 1.8 kJ / mol
  - 4. 30.5 kJ / mol

Question ID : 753229777

Q.2 The change in the \_\_\_\_\_ of the eye lens can thus change its focal length.

Years  1. Curvature

2. Opacity

3. Fluidity

4. Musculature

Question ID : 753229774

Q.3 Which of the following primates were found 15 mya and was more man-like?

1. Dryopithecus

2. Ramapithecus

Choose the correct code-

Years  1. Both 1 and 2

2. Neither 1 nor 2

3. Only 2

4. Only 1

Question ID : 753229782

Q.4 Which of the following hormones promote cell division and are present in greater concentration in areas of rapid cell division, such as in fruits and seeds?

Years  1. Cytokinins

2. Ascorbic Acid

3. Gibberellins

4. Insulin

Question ID : 753229779

Q.5 Which of the following movement originated in the early 1970s from an incident in a village named 'Reni' of Garhwal in the high mountain range of Himalayas?

Years  1. Chipko Movement

2. Narmada Bachao Andolan

3. Namami Gange Movement

4. Year Defense Movement

Question ID : 753229783

Q.6 Which of the following animals are also bilaterally symmetrical and triploblastic, but in addition they have a true body cavity?

Years  1. Annelida

2. Echinodermata

3. Platyhelminthes

4. Coelenterata

Question ID : 753229771



Q.7 Which of the following organisms can fix atmospheric nitrogen?

- Years
- 1. A few algae
  - 2. A few fungi
  - 3. A few viruses
  - 4. A few bacteria

Question ID : 753229787

Q.8 Which plants were introduced into India for their lovely flowers, but later they caused havoc by their excessive growth by causing blocks in our waterways?

- Years
- 1. Pistia Stratiotes
  - 2. Neochetina eichhorniae
  - 3. Eichhornia crassipes
  - 4. Pontederia Azurea

Question ID : 753229784

Q.9 Which of the following is/are key concepts of Darwinian Theory of Evolution?

1. Branching descent
  2. Natural selection
- Choose the correct code-

- Years
- 1. Only 1
  - 2. Only 2
  - 3. Neither 1 nor 2
  - 4. Both 1 and 2

Question ID : 753229780

Q.10 For a young adult with normal vision, the near point is approximately \_\_\_\_\_.

- Years
- 1. 25 cm
  - 2. 35 meters
  - 3. 40mm
  - 4. 40 cm

Question ID : 753229773

Q.11 Which of the following hormones regulate carbohydrate, protein and fat metabolism in the body so as to provide the best balance for growth?

- Years
- 1. Endorphin
  - 2. Oxytocin
  - 3. Thyroxin
  - 4. Epinephrine

Question ID : 753229778

Q.12 A person with \_\_\_\_\_ can see distant objects clearly but cannot see nearby objects distinctly.

- Years
- 1. Myopia
  - 2. Hypermetropia
  - 3. Presbyopia
  - 4. Hypopetropia

Question ID : 753229775

Q.13 Which of the following organisms engulfs food to form food vacuoles?

- Years
- 1. Plasmodium merozoite
  - 2. Paramecium
  - 3. Plasmodium sporozoite
  - 4. Amoeba

Question ID : 753229776

Q.14 Which of the following approach is based on the idea that organisms which are more distantly related will accumulate a greater number of differences in their DNA?

- Years
- 1. Atomic phylogeny
  - 2. Isotopic phylogeny
  - 3. Molecular phylogeny
  - 4. Genome sequencing phylogeny

Question ID : 753229781

Q.15 \_\_\_\_\_ tissue is composed of dead cells.

- Years
- 1. Collenchymatous
  - 2. Aerenchymatous
  - 3. Parenchymatous
  - 4. Sclerenchymatous

Question ID : 753229789

Q.16 Which of the following statements is incorrect?

- Years
- 1. Formation of water-vapours can be influenced by the activities of human-beings.
  - 2. The combustion of fossil fuels increases the amount of suspended particles in air.
  - 3. The fossil fuels like coal and petroleum contain very large amounts of nitrogen and sulphur.
  - 4. In coastal areas the direction of wind changes from day to night.

Question ID : 753229786

Q.17 Consider the following features of a particular gas -  
1. It is a reddish-brown gas with pungent smell.  
2. It indirectly causes acid-rain.

Which of the following gases is being talked about?

- Years
- 1. SO<sub>3</sub>
  - 2. SO<sub>2</sub>
  - 3. NO<sub>2</sub>
  - 4. CFC

Question ID : 753229785

Q.18 Which of the following organisms do not have a defined nucleus or organelles, nor do any of them show multi-cellular body designs?

- Years
- 1. Monera
  - 2. Protists
  - 3. Fungi
  - 4. Animalia

Question ID : 753229770

Q.19 For what purpose do many marine animals generally use the dissolved carbonates in sea-water?

- Years
- 1. For underwater photosynthesis
  - 2. Respiration
  - 3. For digestion of food
  - 4. To make their shells

Question ID : 753229788

Q.20 The diameter of the pupil in a human eye is controlled by the \_\_\_\_\_.

- Years
- 1. Cornea
  - 2. Optic nerve
  - 3. Iris
  - 4. Retina

Question ID : 753229772

Section : Discipline5

Q.1 The levels of which vitamins are kept high in the poultry feeds?

- Years
- 1. Vitamins A and B
  - 2. Vitamins E and K
  - 3. Vitamins A and K
  - 4. Vitamins C and D

Question ID : 753229792

Q.2 Which of the following is a macronutrient for plants?

- Years
- 1. Molybdenum
  - 2. Magnesium
  - 3. Zinc
  - 4. Copper

Question ID : 753229790

Q.3 Xanthium and Cyperinus rotundus are examples of -

- Years
- 1. Crop-eating birds
  - 2. Weeds
  - 3. Crop-damaging insects
  - 4. Nitrogen fixing micro-organisms

Question ID : 753229791

Q.4 The credit for Green Revolution in India goes to-

- Years
- 1. Dr. RS Exhibition
  - 2. Dr. P A Sanchez
  - 3. Dr. M. S. Swaminathan
  - 4. Dr. Verghese Kurien

Question ID : 753229793

Q.5 Which of the following is termed "The True Friends of the farmers' or 'The Natural ploughers'?

- Years
- 1. Bulls
  - 2. Bees
  - 3. Earthworms
  - 4. Rabbits

Question ID : 753229794

Q.6 Apis cerana indica is a type of \_\_\_\_\_.

- Years
- 1. Cow
  - 2. Hen
  - 3. Bee
  - 4. Horse

Question ID : 753229798

**Q.7 Which of the following can NOT be classified as a group of activities that can give a good yield?**

- Years
- 1. Crop protection improvement
  - 2. Crop production improvement
  - 3. Crop variety improvement
  - 4. Crop efficiency improvement

Question ID : 753229789

**Q.8 Which of the following is considered to be the purest form of natural water (distilled water) free from impurities?**

- Years
- 1. River water
  - 2. Rain water
  - 3. Well water
  - 4. Spring water

Question ID : 753229796

**Q.9 What are the hens called which are reared for eggs?**

- Years
- 1. Brailers
  - 2. Eggers
  - 3. Layers
  - 4. Broilers

Question ID : 753229795

**Q.10 What is the density of water at 4°C?**

- Years
- 1. 2 g/m<sup>3</sup>
  - 2. 3 g/m<sup>3</sup>
  - 3. 4 g/m<sup>3</sup>
  - 4. 1g/m<sup>3</sup>

Question ID : 753229797

Section : Teaching Methodology

**Q.1 Who is of the view "There is no such thing as a philosophy-free science, there is only science whose philosophical baggage is taken on board without examination"?**

- Years
- 1. Daniel Dennett
  - 2. Richard Dawkins
  - 3. Sam Harris
  - 4. David Chalmers

Question ID : 753229806

**Q.2 According to the 2011 Census what is the sex-ratio in our country?**

- Years
- 1. 929
  - 2. 951
  - 3. 935
  - 4. 940

Question ID : 753229808

**Q.3 What is the full-form of TLM for teachers?**

- Years
- 1. Training and Learning Method
  - 2. Teacher Language Mechanism
  - 3. Teaching Learning Mechanism
  - 4. Teaching Learning Materials

Question ID : 753229802

**Q.4 How many dimensions of science education was identified in the 'Science Education for First Ten Years of Schooling - Guidelines for Upper Primary and Secondary Classes'?**

- Years
- 1. 6
  - 2. 8
  - 3. 5
  - 4. 7

Question ID : 753229805

**Q.5 Which of the following is not a characteristic of learning process?**

- Years
- 1. Learning is non-transferable.
  - 2. Learning is intentional.
  - 3. Learning is individualistic.
  - 4. Learning is the outcome of the interaction of the individual with the environment

Question ID : 753229800

**Q.6 Which age range is associated with later childhood?**

- Years
- 1. 12-18 years
  - 2. 6-12 years
  - 3. 5-10 years
  - 4. 10-15 years

Question ID : 753229807

Q.7 In which year 10+2+3 pattern of education was introduced in India?

- Years
- 1. 1974
  - 2. 1973
  - 3. 1972
  - 4. 1975

Question ID : 753229804

Q.8 Which out of the following statements is incorrect?

- Years
- 1. Henry Cavendish[1731] discovered Hydrogen
  - 2. Joseph Priestley [ 1733] is known for his discovery of Liquid Nitrogen
  - 3. Robert Hook [1636] discovered Microscope
  - 4. Antony Van Leeuwenhoek [1632] discovered Microorganisms

Question ID : 753229803

Q.9 Which of the following chapters of the Right to Education Act, 2009 provides for the responsibilities of schools and teachers?

- Years
- 1. V
  - 2. II
  - 3. IV
  - 4. III

Question ID : 753229801

Q.10 In which of the following teaching strategies does the student acquire the knowledge himself/herself by discovering the facts himself/herself supported by the guidance of the teacher?

- Years
- 1. Heuristic method
  - 2. Discussion method
  - 3. Lecture method
  - 4. Demonstration method

Question ID : 753229799