

AAI Junior Assistant

**Previous Year Paper
(Fire Service) 15 Nov 2022**



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AAI SR 2022 15th November 2022

Participant ID	
Participant Name	
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Test Date	15/11/2022
Test Time	8:30 AM - 10:30 AM
Subject	Junior Assistant (Fire Service) NE 4

Section : Domain section

Q.1 Which of the following have non-terminating decimal expansions?

- (a) $\frac{987}{3150}$ (b) $\frac{54}{1125}$ (c) $\frac{133}{1680}$ (d) $\frac{19}{3125}$

- Ans

☒ 1. (b) and (d)

☒ 2. (a) and (d)

☒ 3. (a) and (c)

☒ 4. (a) and (b)

Question ID : 75322920009

Status : Answered

Chosen Option : 2

Q.2 The radii of the top and bottom circular faces of a bucket in the shape of a frustum of a cone are 35 cm and 28 cm, respectively. Its capacity is 187.88 litres. What is the height of the bucket? (Take $\pi = \frac{22}{7}$)

- Ans

☒ 1. 45 cm

☒ 2. 50 cm

☒ 3. 60 cm

☒ 4. 80 cm

Question ID : 75322920020

Status : Answered

Chosen Option : 2

Q.3 The value of $\frac{(\sec\theta + \tan\theta)(1 - \sin\theta)}{\cot\theta(1 + \tan\theta + \sec\theta)(1 + \cot\theta - \operatorname{cosec}\theta)}$, $0^\circ < \theta < 90^\circ$, is equal to:

- Ans
- ✗ 1. $2 \sin\theta$
 - ✗ 2. $\cos\theta$
 - ✓ 3. $\frac{1}{2} \sin\theta$
 - ✗ 4. $\frac{1}{2} \cos\theta$

Question ID : 75322920016
Status : Answered
Chosen Option : 2

Q.4 Water is flowing at the rate of 1.68 km/h through a cylindrical pipe into a cylindrical tank, whose diameter of the base is 60 cm. If the water level in the tank rises by 2.1 m in 30 minutes, the internal radius of the pipe is (assuming no overflow):

- Ans
- ✓ 1. 1.5 cm
 - ✗ 2. 1.6 cm
 - ✗ 3. 1.2 cm
 - ✗ 4. 1.8 cm

Question ID : 75322920019
Status : Answered
Chosen Option : 2

Q.5 The weights (in g) of packets received in a post office in one day are given below. If the modal weight of the packets is 31.6 g, then what is the value of x?

Weight (in g)	16-22	22-28	28-34	34-40	40-46
Number of packets	13	16	25	x	20

- Ans
- ✓ 1. 19
 - ✗ 2. 21
 - ✗ 3. 17
 - ✗ 4. 18

Question ID : 75322920018
Status : Answered
Chosen Option : 3

Q.6 Let $\triangle ABC \sim \triangle QPR$ and $\frac{\text{area of } \triangle ABC}{\text{area of } \triangle PQR} = \frac{64}{25}$. If $QP = 12$ cm, $PR = 10$ cm and $AC = 15$ cm, then the length of AB is:

- Ans
- ☐ 1. 12.8 cm
 - ☐ 2. 24 cm
 - ☐ 3. 16 cm
 - ☒ 4. 19.2 cm

Question ID : 75322920023

Status : Answered

Chosen Option : 3

Q.7 The LCM of two numbers is 240 times their HCF, and the sum of their LCM and HCF is 17593. One of these two numbers, when divided by 125, the quotient is 8 and the remainder is 95. The other number is:

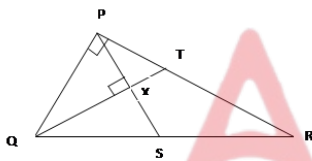
- Ans
- ☐ 1. 1241
 - ☐ 2. 1095
 - ☐ 3. 1314
 - ☒ 4. 1168

Question ID : 75322920010

Status : Answered

Chosen Option : 2

Q.8 In the given figure, in $\triangle PQR$, $PQ = 8$ cm, $\angle P = 90^\circ$ and median PS is perpendicular to median QT at X . What is the length of QT ?



- Ans
- ☐ 1. $6\sqrt{6}$ cm
 - ☐ 2. $8\sqrt{3}$ cm
 - ☒ 3. $4\sqrt{6}$ cm
 - ☐ 4. $6\sqrt{3}$ cm

Question ID : 75322920024

Status : Answered

Chosen Option : 3

Q.9 If the ratio of the sums of the first 9 terms to the first 15 terms of an arithmetic progression is 9:25, then the ratio of the 9th term to the 15th term is:

- Ans
- ☒ 1. 3:5
 - ☒ 2. 19:31
 - ☒ 3. 17:29
 - ☒ 4. 14:19

Question ID : 75322920014
Status : Answered
Chosen Option : 3

Q.10 If α and β , $\alpha > \beta$, are the zeroes of the polynomial $p(x) = 2x^2 - 5x + k$ such that $\alpha - \beta = -\frac{7}{2}$, then k is a zero of which of the following polynomials?

- Ans
- ☒ 1. $x^2 - 2x + 3$
 - ☒ 2. $x^2 + 3x - 2$
 - ☒ 3. $x^2 + 2x - 3$
 - ☒ 4. $x^2 - 3x + 2$

Question ID : 75322920011
Status : Answered
Chosen Option : 2

Q.11 The cost of 3 pens and 5 pencils is ₹74. The cost of 5 pens and 7 pencils exceeds the cost of 4 pens and 3 pencils by ₹34. What is the cost of 2 pens and 9 pencils?

- Ans
- ☒ 1. ₹50
 - ☒ 2. ₹65
 - ☒ 3. ₹70
 - ☒ 4. ₹72

Question ID : 75322920012
Status : Answered
Chosen Option : 2

Q.12 In $\triangle ABC$, $AB = 12$ cm, $BC = 16$ cm and $AC = 20$ cm. A circle is inscribed inside the triangle. What is the radius (in cm) of the circle?

- Ans
- ☒ 1. 3
 - ☒ 2. 4
 - ☒ 3. 5
 - ☒ 4. 6

Question ID : 75322920021
Status : Answered
Chosen Option : 3

Q.13 ABCD is a cyclic quadrilateral such that $\angle B = 112^\circ$. The tangents at A and C meet at a point P. What is the measure of $\angle APC$?

- Ans
- ✓ 1. 44°
 - ✗ 2. 68°
 - ✗ 3. 38°
 - ✗ 4. 42°

Question ID : 75322920022
Status : Answered
Chosen Option : 2

Q.14 If the points P (−2, 1), Q (α , β) and R (4, −1) are collinear and $\alpha - \beta = -3$, then the value of ($\alpha + \beta$) is:

- Ans
- ✗ 1. 2
 - ✓ 2. −1
 - ✗ 3. 1
 - ✗ 4. 0

Question ID : 75322920017
Status : Answered
Chosen Option : 2

Q.15 If $\sqrt{7} \sin \theta = 3 \cos \theta$, $0^\circ < \theta < 90^\circ$, then the value of $\sqrt{9 \operatorname{cosec}^2 \theta + 7 \sec^2 \theta}$ is:

- Ans
- ✓ 1. $4\sqrt{2}$
 - ✗ 2. 4
 - ✗ 3. $2\sqrt{2}$
 - ✗ 4. 2

Question ID : 75322920015
Status : Answered
Chosen Option : 2

Q.16 In $\triangle ABC$, $\angle B = 135^\circ$, $AB = 10\sqrt{2}$ cm and $BC = 14$ cm. What is the length of AC?

- Ans
- ✗ 1. $20\sqrt{2}$ cm
 - ✗ 2. 28 cm
 - ✓ 3. 26 cm
 - ✗ 4. $24\sqrt{2}$ cm

Question ID : 75322920025
Status : Answered
Chosen Option : 2

Q.17 The sum of the first 6 terms of an arithmetic progression is 0 and its 4th term is 2. If the sum of its first n terms is 1440, then the value of n is:

- Ans
- ☒ 1. 36
 - ☒ 2. 30
 - ☒ 3. 28
 - ☒ 4. 32

Question ID : 75322920013

Status : Answered

Chosen Option : 2

Q.18 An object is placed at 15 cm in front of a concave mirror with a focal length of 20 cm. Following the new Cartesian sign convention, the image formed at v = _____.

- Ans
- ☒ 1. -60 cm
 - ☒ 2. $-(\frac{60}{7})$ cm
 - ☒ 3. $+(\frac{60}{7})$ cm
 - ☒ 4. +60 cm

Question ID : 75322920038

Status : Answered

Chosen Option : 2

Q.19 The atom of an element has 3 electrons in the M-shell. What is the atomic number of this element?

- Ans
- ☒ 1. 10
 - ☒ 2. 5
 - ☒ 3. 3
 - ☒ 4. 13

Question ID : 75322920032

Status : Answered

Chosen Option : 2

Q.20 In the modern periodic table, element 'X' belongs to a period for which $n = 4$ and element 'Y' belongs to a period for which $n = 2$, but both the elements belong to the same group. Which of the following statements is true about these elements?

- Ans
- ☒ 1. 'Y' is more metallic than 'X'.
 - ☒ 2. 'X' and 'Y' are equally non-metallic.
 - ☒ 3. 'X' is more metallic than 'Y'.
 - ☒ 4. 'X' and 'Y' are equally metallic.

Question ID : 75322920034

Status : Answered

Chosen Option : 2

Q.21 The pH values of two solutions 'I' and 'II' are 8 and 10, respectively. Which of the following statements is true about these solutions?

- Ans
- ☒ 1. 'II' is more acidic than 'I'.
 - ☒ 2. 'I' is basic and 'II' is acidic.
 - ☒ 3. 'II' is more basic than 'I'.
 - ☒ 4. 'I' is more basic than 'II'.

Question ID : 75322920033

Status : Answered

Chosen Option : 3

Q.22 Which of the following pairs of compounds are members of the same homologous series?

- Ans
- ☒ 1. C_9H_{20} and C_7H_{16}
 - ☒ 2. C_9H_{16} and C_7H_{16}
 - ☒ 3. C_9H_{18} and C_7H_{16}
 - ☒ 4. C_9H_{20} and C_7H_{14}

Question ID : 75322920036

Status : Answered

Chosen Option : 3

Q.23 Two resistors, each of $10\ \Omega$ are connected in parallel. The combination is connected in series to a third resistor of $10\ \Omega$. The equivalent resistance of this arrangement is:

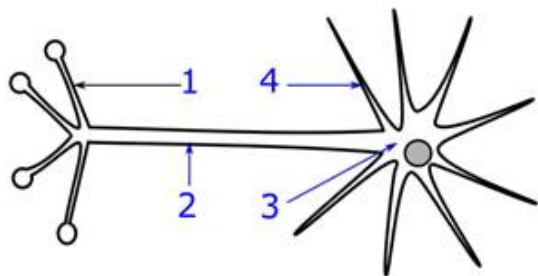
- Ans
- ☒ 1. $\left[\frac{20}{3}\right]\ \Omega$
 - ☒ 2. $30\ \Omega$
 - ☒ 3. $15\ \Omega$
 - ☒ 4. $\left[\frac{10}{3}\right]\ \Omega$

Question ID : 75322920041

Status : Answered

Chosen Option : 1

Q.24 In the following figure, which label points to a dendrite?



- Ans
- ✓ 1. Arrow 4
 - ✗ 2. Arrow 3
 - ✗ 3. Arrow 1
 - ✗ 4. Arrow 2

Question ID : 75322920026

Status : Answered

Chosen Option : 3

Q.25 Consider the following statements about magnetic field at a point due to a current carrying straight conductor.

- (a) It increases as the current in the conductor increases.
- (b) It decreases as the distance of the point from the conductor increases.
- (c) Its direction can be determined by 'Right-hand Thumb rule'.

Which of the statement(s) is/are correct?

- Ans
- ✗ 1. Both (a) and (b)
 - ✗ 2. Only (a)
 - ✗ 3. Only (b)
 - ✓ 4. All (a), (b) and (c)

Question ID : 75322920042

Status : Answered

Chosen Option : 4

Q.26 An element 'X', when burnt in oxygen, forms a compound 'Z'. Solution of compound 'Z' in water turns blue litmus red.

Which of the following is correct about 'X' and 'Z'?

- Ans
- ✗ 1. 'X' is a metal and 'Z' is acidic in nature.
 - ✗ 2. 'X' is a metal and 'Z' is basic in nature.
 - ✗ 3. 'X' is a non-metal and 'Z' is basic in nature.
 - ✓ 4. 'X' is a non-metal and 'Z' is acidic in nature.

Question ID : 75322920035

Status : Answered

Chosen Option : 2

Q.27 How can we know if two organs are homologous?

- Ans
- ☐ 1. By comparing their functions
 - ☐ 2. By comparing the size
 - ☒ 3. By comparing the anatomy
 - ☐ 4. By comparing the appearance

Question ID : 75322920029

Status : Answered

Chosen Option : 1

Q.28 A ray of light passes from the air (refractive index 1.00) to water (refractive index 1.33). The ratio (v_1/v_2) of the speed of light in the air (v_1) to that in water (v_2) is _____ and the ray bends _____ the normal after refraction.

- Ans
- ☐ 1. 0.75; towards
 - ☐ 2. 1.33; away from
 - ☒ 3. 1.33; towards
 - ☐ 4. 0.75; away from

Question ID : 75322920039

Status : Answered

Chosen Option : 2

Q.29 Which of the following practices is an example of 'Reuse' to protect and preserve our environment?

- Ans
- ☒ 1. Using cloth bags instead of paper bags
 - ☐ 2. Using mud cups instead of metal cups
 - ☐ 3. Using paper straws for drinks instead of plastic straws
 - ☐ 4. Using metal lunch box instead of plastic lunch box

Question ID : 75322920031

Status : Answered

Chosen Option : 3

Q.30 In an angiospermic flower, going from outside to inside, which of the following organs do we find in sequence?

- Ans
- ☐ 1. Petals – Stamens – Sepals – Pistils
 - ☐ 2. Leaves – Petals – Pistils – Stamens
 - ☐ 3. Petals – Sepals – Stamens – Pistils
 - ☒ 4. Sepals – Petals – Stamens – Pistils

Question ID : 75322920028

Status : Answered

Chosen Option : 3

Q.31 A beam of white light passes through a glass prism and a spectrum is observed. The _____ light bends the least.

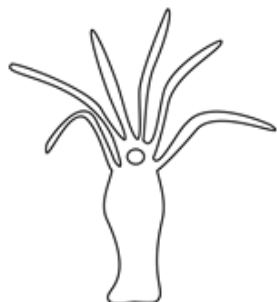
- Ans
- ☒ 1. blue
 - ☒ 2. yellow
 - ☒ 3. red
 - ☒ 4. violet

Question ID : 75322920040

Status : Answered

Chosen Option : 4

Q.32 How does the following organism reproduce?



- Ans
- ☒ 1. Binary fission
 - ☒ 2. Multiple fission
 - ☒ 3. Budding
 - ☒ 4. Sporulation

Question ID : 75322920027

Status : Answered

Chosen Option : 1

Q.33 Identify the true statement.

- Ans
- ☒ 1.
An oxygen molecule is split by UV radiation, which then generates ozone molecules.
 - ☒ 2.
Oxygen and ozone can both absorb UV radiation to protect us from cancer.
 - ☒ 3.
An ozone molecule is split by UV radiation, which then generates oxygen molecules.
 - ☒ 4.
Oxygen and ozone are both colourless and hence do not absorb any radiation.

Question ID : 75322920030

Status : Answered

Chosen Option : 2

Q.34 How many moles of CO₂ are present in a gas jar containing 1.506×10^{23} molecules of carbon dioxide?

- Ans
- ☒

1. 0.5
- ☐

2. 1
- ☐

3. 2
- ☒

4. 0.25

Question ID : 75322920037

Status : Answered

Chosen Option : 1

Q.35 Select the most appropriate synonym of the given word.

Arrogant

- Ans
- ☒

1. Haughty
- ☐

2. Humble
- ☐

3. Hungry
- ☐

4. Hasty

Question ID : 75322920050

Status : Answered

Chosen Option : 2

Q.36 Select the most appropriate meaning of the given idiom.

Give it a shot

- Ans
- ☒

1. Try to do something
- ☐

2. Shoot someone
- ☐

3. Give a chance to someone
- ☐

4. Give orders

Question ID : 75322920052

Status : Answered

Chosen Option : 3

Q.37 Select the most appropriate meaning of the given idiom.

To take after

- Ans
- ☐

1. Follow someone
- ☐

2. Wait for something
- ☒

3. Resemble someone
- ☐

4. Borrow something

Question ID : 75322920051

Status : Answered

Chosen Option : 3

Q.38 Select the most appropriate option to fill in the blank.

We need a _____ ladder than this one to reach the top.

- Ans
- ☒ 1. long
 - ☒ 2. longer
 - ☒ 3. longest
 - ☒ 4. more long

Question ID : 75322920043
Status : Answered
Chosen Option : 4

Q.39 Select the most appropriate ANTONYM of the given word.

Caution

- Ans
- ☒ 1. Watchfulness
 - ☒ 2. Rashness
 - ☒ 3. Restraint
 - ☒ 4. Attention

Question ID : 75322920049
Status : Answered
Chosen Option : 4

Q.40 Select the option that can be used as a one-word substitute for the given group of words.

People who work together in an organisation.

- Ans
- ☒ 1. Companions
 - ☒ 2. Comperes
 - ☒ 3. Collaborators
 - ☒ 4. Colleagues

Question ID : 75322920053
Status : Answered
Chosen Option : 4

Q.41 Select the most appropriate article to fill in the blank.

She is _____ only student in the class who can speak five languages.

- Ans
- ☒ 1. the
 - ☒ 2. No article
 - ☒ 3. a
 - ☒ 4. an

Question ID : 75322920047
Status : Answered
Chosen Option : 1

Q.42 Select the most appropriate article to fill in the blank.

This seems to be _____ futile exercise.

- Ans
- ☒ 1. an
 - ☒ 2. No article
 - ☒ 3. a
 - ☒ 4. the

Question ID : 75322920048
Status : Answered
Chosen Option : 3

Q.43 Select the most appropriate option to fill in the blank.

He _____ a picture of the Buddha in his living room.

- Ans
- ☒ 1. had hanged
 - ☒ 2. hang
 - ☒ 3. hung
 - ☒ 4. hanged

Question ID : 75322920046
Status : Answered
Chosen Option : 1

Q.44 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. He runs away to live with his friends to escape the tyranny of his guardian.
- B. The novel had a strong autobiographical element.
- C. It tells the story of an orphaned Anglo-Indian teenager.
- D. Ruskin bond started writing his first novel at the age of 17.

- Ans
- ☒ 1. DBCA
 - ☒ 2. CADB
 - ☒ 3. DCBA
 - ☒ 4. BCDA

Question ID : 75322920055
Status : Answered
Chosen Option : 1

Q.45 Select the most appropriate option to fill in the blank.

He usually _____ to his office.


- Ans
- ☒ 1. drive
 - ☒ 2. drove
 - ☒ 3. is driving
 - ☒ 4. drives


Question ID : 75322920045
Status : Answered
Chosen Option : 1


Q.46 Select the most appropriate option to fill in the blank.


Chew your food _____ for proper digestion.

- Ans

 1. noisily

 2. strongly

 3. softly

 4. slowly

Question ID : 75322920044

Status : Answered

Chosen Option : 4

Q.47 Select the option that can be used as a one-word substitute for the given group of words.

A doctor who attends to bone problems.

- Ans

 1. Orthopaedist

 2. Ophthalmologist

 3. Obstetrician

 4. Orthodontist

Question ID : 75322920054

Status : Answered

Chosen Option : 1

Comprehension:

Read the given passage and answer the questions that follow.


The worst days of any summer are the rainy ones. We spend all year looking forward to nice weather and long, hot days. All of winter, with its dreary grey days and bitter cold, we dream of those endless days at the beach, laying on the sand and soaking in the bright and burning sun. And then, summer comes, and it rains.


As a child, I would wake up to rainy summer days and come close to crying. It wasn't fair. We suffered through months of school and miserable weather for those scant ten weeks of freedom and balmy weather. Any day that I could not spend at the beach or playing ball with my friends seemed like a punishment for something I didn't even do. On those rainy summer days, I had nothing to do and could only sit inside, staring out at the rain like a Dickensian orphan. I was an only child, so there was no one else to play with. My father worked from home, so I was not truly alone, but he could not actively play with me since he was technically at work. It was those days that I would resign myself to whatever was on television or any books that I could find lying around. I'd crawl through the day and pray each night that the rain would not be there the next day.


SubQuestion No : 48


Q.48 Which of the following statements is NOT true?

- Ans

 1. The pleasant weather lasts for only ten days, according to the narrator.

 2. Rain plays the spoilsport on summer days.

 3. The narrator prayed for a clear day with no rain.

 4. The narrator passed his time watching TV or reading when it was raining outside.

Question ID : 75322920058

Status : Answered

Chosen Option : 1

Comprehension:

Read the given passage and answer the questions that follow.

The worst days of any summer are the rainy ones. We spend all year looking forward to nice weather and long, hot days. All of winter, with its dreary grey days and bitter cold, we dream of those endless days at the beach, laying on the sand and soaking in the bright and burning sun. And then, summer comes, and it rains.

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SubQuestion No : 49

Q.49 '... staring out at the rain like a Dickensian orphan'. What feelings of the narrator are conveyed by this comparison?

- Ans
- ☒ 1. Misery
 - ☐ 2. Curiosity
 - ☐ 3. Fear
 - ☐ 4. Anger

Question ID : 75322920059

Status : Answered

Chosen Option : 1

Comprehension:

Read the given passage and answer the questions that follow.

The worst days of any summer are the rainy ones. We spend all year looking forward to nice weather and long, hot days. All of winter, with its dreary grey days and bitter cold, we dream of those endless days at the beach, laying on the sand and soaking in the bright and burning sun. And then, summer comes, and it rains.

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SubQuestion No : 50

Q.50 Why does the narrator look forward to summer?

- Ans
1. To enjoy at the beach

2. To relax indoors

3. To walk in scorching heat

4. To soak in the rain

Question ID : 75322920057

Status : Answered

Chosen Option : 1

Section : General Knowledge & General intelligence & General Aptitude & English etc.

Q.1 Which of the following technologies was invented by Jaap Haartsen?

- Ans
1. 4G

2. 3G

3. WiMAX

4. Bluetooth

Question ID : 75322920060

Status : Answered

Chosen Option : 3

Q.2 Sayyid dynasty ruled in India between:

- Ans
1. 1380 AD and 1440 AD

2. 1414 AD and 1451 AD

3. 1390 AD and 1406 AD

4. 1406 AD and 1490 AD

Question ID : 75322920065

Status : Answered

Chosen Option : 3

Q.3 In which of the following years did the Ministry of Environment and Forests, Government of India, constitute a Committee on ‘Prevention of Illegal Trade in Wildlife and Wildlife Products’?

- Ans

☒ 1. 1996

☒ 2. 1995

☒ 3. 1997

☒ 4. 1994

Question ID : 75322920061

Status : Answered

Chosen Option : 3

Q.4 Ancient city Harappa is located in which of the following provinces of Pakistan?

- Ans

☒ 1. Balochistan

☒ 2. Khyber Pakhtunkhwa

☒ 3. Sindh

☒ 4. Punjab

Question ID : 75322920066

Status : Answered

Chosen Option : 3

Q.5 Slave dynasty ruled in India between:

- Ans

☒ 1. 1206 AD and 1290 AD

☒ 2. 1201 AD and 1304 AD

☒ 3. 1190 AD and 1260 AD

☒ 4. 1160 AD and 1201 AD

Question ID : 75322920064

Status : Answered

Chosen Option : 3

Q.6 In which of the following months, a leftover piece of a rocket hit the lunar surface and created a new crater on the Moon that may be up to 65 feet wide?

- Ans

☒ 1. February 2022

☒ 2. March 2022

☒ 3. January 2022

☒ 4. December 2021

Question ID : 75322920073

Status : Answered

Chosen Option : 3

Q.7 In 2022, on which of the following dates did Virat Kohli play his 100th Test?

- Ans ☒ 1. 4th March
☒ 2. 2nd March
☒ 3. 5th March
☒ 4. 3rd March

Question ID : 75322920063
 Status : Answered
 Chosen Option : 3

Q.8 Which of the following animals is NOT an amphibian?

- Ans ☒ 1. Frogs
☒ 2. Caecilian
☒ 3. Python
☒ 4. Salamanders

Question ID : 75322920074
 Status : Answered
 Chosen Option : 2

Q.9 Vilayat Khan was known for which of the following musical instruments?

- Ans ☒ 1. Sitar
☒ 2. Sarangi
☒ 3. Tabla
☒ 4. Sahnai

Question ID : 75322920067
 Status : Answered
 Chosen Option : 3

Q.10 Task Force on "Projections of Minimum Needs and Effective Consumption Demand" which was headed by Dr. Y K. Alagh was constituted in the year ____.

- Ans ☒ 1. 1978
☒ 2. 1980
☒ 3. 1979
☒ 4. 1977

Question ID : 75322920071
 Status : Answered
 Chosen Option : 2

Q.11 In February 2022, the Union Cabinet permitted up to ____ foreign direct investment (FDI) under automatic route in Life Insurance Corporation of India (LIC).

- Ans
- ☒ 1. 25%
 - ☒ 2. 10%
 - ☒ 3. 20%
 - ☒ 4. 15%

Question ID : 75322920068
Status : Answered
Chosen Option : 2

Q.12 'Namami Gange Programme', is an integrated conservation mission, approved as 'Flagship Programme' by the Union Government in June 2014 with budget outlay of ____ Crores.

- Ans
- ☒ 1. ₹15,000
 - ☒ 2. ₹10,000
 - ☒ 3. ₹25,000
 - ☒ 4. ₹20,000

Question ID : 75322920070
Status : Answered
Chosen Option : 3

Q.13 Smart Cities Mission was launched by Prime Minister Narendra Modi in the year:

- Ans
- ☒ 1. 2017
 - ☒ 2. 2015
 - ☒ 3. 2018
 - ☒ 4. 2016

Question ID : 75322920069
Status : Answered
Chosen Option : 3

Q.14 Who is the chairman of the Inter-State-Council as per the present composition?

- Ans
- ☒ 1. President of India
 - ☒ 2. Vice President of India
 - ☒ 3. Prime Minister
 - ☒ 4. Home Minister

Question ID : 75322920076
Status : Answered
Chosen Option : 3

Q.15 In March 2022, who among the following players broke Kapil Dev's 36-year old record for most runs at number 7?

- Ans

✖

1. Neil Wagner

✖

2. David Warner

✖

3. Chris Gayle

✔

4. Ravindra Jadeja

Question ID : 75322920062

Status : Answered

Chosen Option : 2

Q.16 Which of the following articles of the Indian Constitution deals with the abolition of untouchability?

- Ans

✖

1. 18

✖

2. 15

✖

3. 16

✔

4. 17

Question ID : 75322920075

Status : Answered

Chosen Option : 2

Q.17 Mehmet Ilker Ayci, who was named as the new Air India CEO-MD, and later declined the position, was from which country?

- Ans

✖

1. Chechnya

✖

2. Iran

✖

3. UAE

✔

4. Turkey

Question ID : 75322920072

Status : Answered

Chosen Option : 2

Q.18 In a certain code language, 'ANT' is written as 35, and 'ZEBRA' is written as 52. How will 'OCTOPUS' be written in that language?

- Ans

✖

1. 86

✔

2. 109

✖

3. 98

✖

4. 72

Question ID : 75322920084

Status : Answered

Chosen Option : 2

Q.19 Select the option that is related to the fifth letter-cluster in the same way as the first letter-cluster is related to the second letter-cluster and the third letter-cluster is related to the fourth letter-cluster.

JRPI : FPLG :: WFBM : SDLK :: TIWO : ?

- Ans
- ✗ 1. QGSM
 - ✓ 2. PGSM
 - ✗ 3. PHSN
 - ✗ 4. PGTM

Question ID : 75322920087
Status : Answered
Chosen Option : 1

Q.20 Six friends Kriss, Donald, Mac, John, Farhan and Romio are sitting around a circular table facing towards the center. Romio is sitting third to the right of Donald. Kriss and Mac are not immediate neighbours of Romio. Kriss is sitting to the immediate left of John. Who is sitting third to the left of Kriss?

- Ans
- ✗ 1. Romio
 - ✗ 2. Donald
 - ✗ 3. Mac
 - ✓ 4. Farhan

Question ID : 75322920077
Status : Answered
Chosen Option : 3

Q.21 Seven boxes A, B, C, D, E, F and G are placed one above the other. The lowermost box is numbered 1, the box above it is numbered 2, and so on. Only three boxes are kept between box A and box F. Box G is kept just below box F and just above box D. Only one box is kept above box B. Box C is kept just above box E. Which box is kept at the middle position?

- Ans
- ✗ 1. Box F
 - ✓ 2. Box E
 - ✗ 3. Box G
 - ✗ 4. Box C

Question ID : 75322920079
Status : Answered
Chosen Option : 4

Q.22 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some mobiles are watches.
All watches are clocks.
All mobiles are pen drives.

Conclusions:

I. Some clocks are mobiles.
II. All pen drives are watches.

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

Question ID : 75322920081

Status : Answered

Chosen Option : 3

Q.23 Six friends Anoop, Kailash, Vikas, Darshit, Eshan and Lalit live on different floors of a six-floor building, having floor numbers from 1 to 6. The lowermost floor is numbered 1, the floor above it is numbered 2, and so on. Only two friends live above Vikas's floor and only four friends live below Darshit's floor. Only Anoop lives between the floors of Kailash and Eshan.

Who lives on the 6th floor?

- Ans
- ☒ 1. Vikas
 - ☒ 2. Kailash
 - ☒ 3. Lalit
 - ☒ 4. Eshan

Question ID : 75322920080

Status : Answered

Chosen Option : 1

Q.24 Three of the following four number-triads follow a certain rule/logic/relation and therefore are alike in a certain way. Select the ODD one out from the given options.

- Ans
- ☒ 1. (44, 62, 214)
 - ☒ 2. (22, 48, 140)
 - ☒ 3. (48, 56, 208)
 - ☒ 4. (36, 54, 180)

Question ID : 75322920091

Status : Answered

Chosen Option : 2

Q.25 In a class of 48 students, Ragini's rank is 12th from the top and Twisha's rank is 14th from the bottom.
Find the number of students whose ranks lie between the ranks of Ragini and Twisha.

- Ans
- ☒ 1. 23
 - ☒ 2. 21
 - ☒ 3. 22
 - ☒ 4. 20

Question ID : 75322920078
Status : Answered
Chosen Option : 3

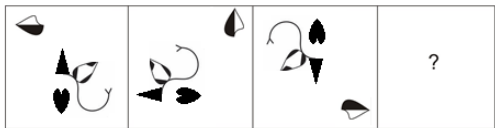
Q.26 Which two signs should be interchanged to make the following equation correct?

$$143 + 13 - 8 \div 2 \times 5 = 13$$

- Ans
- ☒ 1. - and +
 - ☒ 2. ÷ and ×
 - ☒ 3. + and ×
 - ☒ 4. ÷ and +

Question ID : 75322920093
Status : Answered
Chosen Option : 1

Q.27 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans

✓ 1.



✗ 2.



✗ 3.



✗ 4.



Question ID : 75322920088
Status : Answered
Chosen Option : 1

Q.28 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

S _ PK _ P _ SL _ KS _ _ K

Ans ✗ 1. K L K P P K

✗ 2. S L S K P L P

✓ 3. L S L K P L P

✗ 4. K L S P L K

Question ID : 75322920083
Status : Answered
Chosen Option : 3

Q.29 Select the option that is related to the fifth letter-cluster in the same way as the first letter-cluster is related to the second letter-cluster and the third letter-cluster is related to the fourth letter-cluster.

NTLG : UOHM :: PGUR : HQSV :: HTPM : ?

- Ans
- ☒ 1. UJQN
 - ☒ 2. UKNR
 - ☒ 3. VIQN
 - ☒ 4. UINQ

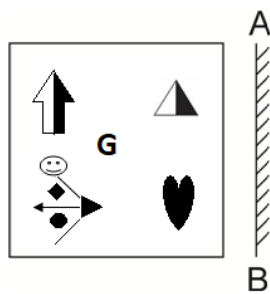
Question ID : 75322920086

Status : Answered

Chosen Option : 3

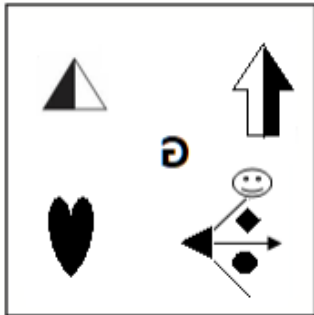


Q.30 Select the correct mirror image of the given figure when the mirror is placed at 'AB' as shown.

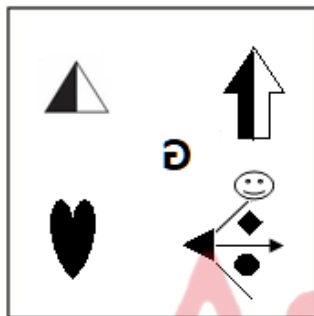


Ans

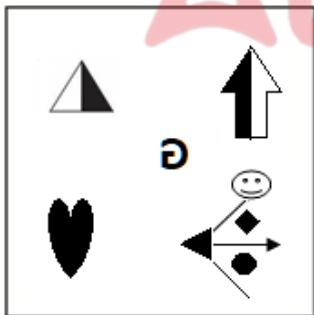
✗ 1.



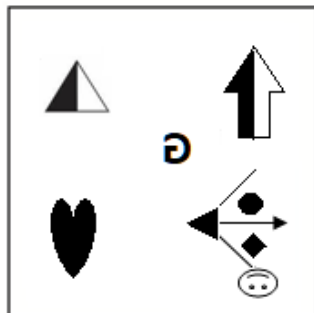
✓ 2.



✗ 3.



✗ 4.



Question ID : 75322920089
Status : Answered
Chosen Option : 2

Q.31 Read the given statements and conclusions carefully. Find out which of the given conclusions is/are true based on the statements.

Statements:
 $A \leq M < R = S$
 $T > M$
 $T \geq U$

Conclusions:
 I. $A < U$
 II. $U < M$

- Ans
- ☒ 1. Only conclusion II is true.
 - ☒ 2. Both conclusions I and II are true.
 - ☒ 3. Neither conclusion I nor II is true.
 - ☒ 4. Only conclusion I is true.

Question ID : 75322920082
 Status : Answered
 Chosen Option : 2

Q.32 Select the number from among the given options that can replace the question mark (?) in the following series.

148, 149, 153, 162, ?

- Ans
- ☒ 1. 172
 - ☒ 2. 176
 - ☒ 3. 182
 - ☒ 4. 178

Question ID : 75322920090
 Status : Answered
 Chosen Option : 2

Q.33 What approximate value should come in place of the question mark (?) in the following expression?

$$7.999^{3.001} + 3.001^{1.999} + 19.002 = ?$$

- Ans
- ☒ 1. 534
 - ☒ 2. 568
 - ☒ 3. 540
 - ☒ 4. 520

Question ID : 75322920092
 Status : Answered
 Chosen Option : 3

Q.34 In a certain code language,

'A + B' means 'A is the daughter of B',

'A - B' means 'A is the sister of B',

'A × B' means 'A is the brother of B',

'A & B' means 'A is the son of B'.

Based on the above, how is S related to V if 'R - S & Q × T + V'?

- Ans
- ☒ 1. Brother
 - ☒ 2. Son
 - ☒ 3. Son's son
 - ☒ 4. Brother's son

Question ID : 75322920085
Status : Answered
Chosen Option : 3

Q.35 Select the most appropriate meaning of the given idiom.

Once in a blue moon

- Ans
- ☒ 1. Rarely
 - ☒ 2. Monthly
 - ☒ 3. Often
 - ☒ 4. Daily

Question ID : 75322920100
Status : Answered
Chosen Option : 1

Q.36 Select the most appropriate ANTONYM of the given word.

Valid

- Ans
- ☒ 1. False
 - ☒ 2. Good
 - ☒ 3. Lawful
 - ☒ 4. Right

Question ID : 75322920098
Status : Answered
Chosen Option : 3

Q.37 Select the most appropriate option to fill in the blank.

The patient was complaining _____ pain in the chest.

- Ans ☒ 1. of
 ☒ 2. from
 ☒ 3. for
 ☒ 4. against

Question ID : 75322920095
Status : Answered
Chosen Option : 1

Q.38 Select the most appropriate option to fill in the blank.

She was tired as she _____ alone since morning.

- Ans ☒ 1. had been working
 ☒ 2. was working
 ☒ 3. has been working
 ☒ 4. worked

Question ID : 75322920097
Status : Answered
Chosen Option : 3

Q.39 Select the most appropriate option to fill in the blank.

Why are you _____ an umbrella today?

- Ans ☒ 1. carry
 ☒ 2. carrying
 ☒ 3. carried
 ☒ 4. carries

Question ID : 75322920096
Status : Answered
Chosen Option : 2

Q.40 Select the most appropriate synonym of the given word.

Deface

- Ans ☒ 1. Deform
 ☒ 2. Deplete
 ☒ 3. Deride
 ☒ 4. Degrade

Question ID : 75322920099
Status : Answered
Chosen Option : 3

Q.41 Select the option that can be used as a one-word substitute for the given group of words.

Main character in a story or play

- Ans
-  1. Antagonist

 2. Model

 3. Protagonist

 4. Idol

Question ID : 75322920103

Status : Answered

Chosen Option : 2

Q.42 Select the most appropriate option to fill in the blank.

The children sat indoors _____ while it was raining.

- Ans
-  1. gloomily

 2. hastily

 3. slowly

 4. cleverly


Question ID : 75322920094


Status : Answered


Chosen Option : 2


Q.43 Select the option that can be used as a one-word substitute for the given group of words.

Something which is no longer in use

- Ans
-  1. Obsolete

 2. Extinct

 3. Obscure

 4. Extinguished


Question ID : 75322920102


Status : Answered


Chosen Option : 3


Q.44 Select the most appropriate meaning of the given proverb.

Penny wise pound foolish

- Ans
-  1. Stingy with small amounts but wasteful with large sums

 2. Saving small sums is beneficial in the long run

 3. Saving every penny leads to wealth creation

 4. Wise people do not spend money on foolish things

Question ID : 75322920101

Status : Answered

Chosen Option : 4

Q.45 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. It helps in the balanced development of a person's mind, body and soul.
- B. Yoga is derived from the Sanskrit word 'Yuj'.
- C. It is not merely the art of body-postures but a scientific a way of living.
- D. It means to connect with the universe around.

Ans ☒ 1. BACD
☒ 2. DBAC
☒ 3. BDCA
☒ 4. CABD

Question ID : 75322920104
 Status : Answered
 Chosen Option : 1

Comprehension:

Read the given passage and answer the questions that follow.

The sage of science, Einstein, was sitting in a pensive mood one evening. His eyes were brimming with tears. The pain was evident on his face. He peeped out of the window of his room. The sun had set a few minutes back. The sky was filled with a reddish glow. At this sunset, he felt that it was humanity that had sunk into devilish darkness and the reddish glow in the sky was the blood of humanity spilling all over the sky from earth. With tired steps, he walked back to his chair and settled down. It was the 9th of August 1945. Three days back, he had been torn apart when he had heard on the radio that America had dropped an atom bomb on the Japanese city, Hiroshima. Today, within three days, another bomb was dropped on another city, Nagasaki; and, lakhs of people had been killed.

He had heard that the blast released so much energy that it had paled all past destructions in comparison and death had played out a pitiable dance of destruction. The flames that broke out of the bomb were burning, melting and exploding buildings. Scared of the heat of the bomb, people had jumped into lakes and rivers, but the water was boiling, and the people too were burnt and killed. The animals in the water were already boiled to death. Animals, trees, herbs, fragrant flowering plants were all turned into ashes. The atomic energy destruction had just not stopped there. It had entered the atmosphere there and had spread radiation that would affect people for generations to come and would also ring about destructive irreversible biological changes in animals and plants.

As the news of the atomic attack reached Einstein, and he became aware of the glaring horror of the abuse of atomic energy, his distress and restlessness knew no bounds. He could not control himself and picked up his violin to turn his mind on to other things. While playing the violin, his heart was filled with an ocean of agony and tears just continued streaming uncontrollably out of his eyes.

SubQuestion No : 46

Q.46 Select the most appropriate meaning of 'pensive' as used in the passage.

Ans ☒ 1. Shocked
☒ 2. Aggressive
☒ 3. Thoughtful
☒ 4. Restless

Question ID : 75322920110
 Status : Answered
 Chosen Option : 3

Comprehension:

Read the given passage and answer the questions that follow.

The sage of science, Einstein, was sitting in a pensive mood one evening. His eyes were brimming with tears. The pain was evident on his face. He peeped out of the window of his room. The sun had set a few minutes back. The sky was filled with a reddish glow. At this sunset, he felt that it was humanity that had sunk into devilish darkness and the reddish glow in the sky was the blood of humanity spilling all over the sky from earth. With tired steps, he walked back to his chair and settled down. It was the 9th of August 1945. Three days back, he had been torn apart when he had heard on the radio that America had dropped an atom bomb on the Japanese city, Hiroshima. Today, within three days, another bomb was dropped on another city, Nagasaki; and, lakhs of people had been killed.

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SubQuestion No : 47

Q.47 Which of the following statements does NOT depict the destruction caused by the atom bomb?

- Ans
- ☒ 1. Burning and exploding buildings
 - ☒ 2. Animals and plants reduced to ashes
 - ☒ 3. Darkness descending from the sky
 - ☒ 4. Boiling of the lakes and rivers

Question ID : 75322920108

Status : Answered

Chosen Option : 3

Comprehension:

Read the given passage and answer the questions that follow.

The sage of science, Einstein, was sitting in a pensive mood one evening. His eyes were brimming with tears. The pain was evident on his face. He peeped out of the window of his room. The sun had set a few minutes back. The sky was filled with a reddish glow. At this sunset, he felt that it was humanity that had sunk into devilish darkness and the reddish glow in the sky was the blood of humanity spilling all over the sky from earth. With tired steps, he walked back to his chair and settled down. It was the 9th of August 1945. Three days back, he had been torn apart when he had heard on the radio that America had dropped an atom bomb on the Japanese city, Hiroshima. Today, within three days, another bomb was dropped on another city, Nagasaki; and, lakhs of people had been killed.

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SubQuestion No : 48

Q.48 Einstein was horrified at the:

- Ans
- ☒ 1. abuse of atomic energy
 - ☐ 2. sudden rise in temperatures
 - ☐ 3. environmental pollution
 - ☐ 4. biological changes in animals

Question ID : 75322920109

Status : Answered

Chosen Option : 1

Comprehension:

Read the given passage and answer the questions that follow.

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SubQuestion No : 49

Q.49 What had shattered Einstein on the 6th of August 1945?

- Ans
- ☒ 1. The bombing of Nagasaki
 - ☒ 2. The bombing of America
 - ☒ 3. The bombing of all Japanese cities
 - ☒ 4. The bombing of Hiroshima

Question ID : 75322920107

Status : Answered

Chosen Option : 1

Comprehension:

Read the given passage and answer the questions that follow.

The sage of science, Einstein, was sitting in a pensive mood one evening. His eyes were brimming with tears. The pain was evident on his face. He peeped out of the window of his room. The sun had set a few minutes back. The sky was filled with a reddish glow. At this sunset, he felt that it was humanity that had sunk into devilish darkness and the reddish glow in the sky was the blood of humanity spilling all over the sky from earth. With tired steps, he walked back to his chair and settled down. It was the 9th of August 1945. Three days back, he had been torn apart when he had heard on the radio that America had dropped an atom bomb on the Japanese city, Hiroshima. Today, within three days, another bomb was dropped on another city, Nagasaki; and, lakhs of people had been killed.

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As the news of the atomic attack reached Einstein, and he became aware of the glaring horror of the abuse of atomic energy, his distress and restlessness knew no bounds. He could not control himself and picked up his violin to turn his mind on to other things. While playing the violin, his heart was filled with an ocean of agony and tears just continued streaming uncontrollably out of his eyes.

SubQuestion No : 50

Q.50 What did Einstein associate the red glow in the sky with?

- Ans
- ☒ 1. The blast of bombs
 - ☒ 2. The agony of war
 - ☒ 3. The setting sun
 - ☒ 4. The blood of humanity

Question ID : 75322920106

Status : Answered

Chosen Option : 4