Question 1. Select the related word/letters/number from the given alternatives.

दिये गये विकल्पों में से संबन्धित शब्द/अक्षर/संख्या को चुनें।

Coins : Mint :: Bricks : ?

Options:
1) Klin 
2) Foundry 
3) Cementary 
4) Finance 

Correct Answer: Klin
Candidate Answer: Klin

Question 2. Select the related word/letters/number from the given alternatives.

दिये गये विकल्पों में से संबन्धित शब्द/अक्षर/संख्या को चुनें।

MOLTU : ? :: HOPE : IPQF

Options:
1) MPNUV 
2) NPMUV 
3) NPMVU 
4) MPNVU 

Correct Answer: NPMUV
Candidate Answer: NPMUV

Question 3. Select the related word/letters/number from the given alternatives.

दिये गये विकल्पों में से संबन्धित शब्द/अक्षर/संख्या को चुनें।

456 : 15 :: 789 : ?

Options:
1) 22 
2) 24 
3) 26 
4) 28 

Correct Answer: 24
Candidate Answer: 24

Question 4.
For the following questions
Find the odd word/letters/number pair from the given alternatives.
दिए गए विकल्पों में से विषम शब्द/संख्या/अक्षर/युग्म चुनिए।
**Options:**
1) TOP
2) COP
3) MOP
4) JOP
**Correct Answer:** JOP
**Candidate Answer:** MOP

Question 5.

For the following questions
Find the odd word/letters/number pair from the given alternatives.
दिए गए विकल्पों में से विषम शब्द/संख्या/अक्षर/युग्म चुनिए।
**Options:**
1) BDF
2) NQS
3) TVX
4) HIL
**Correct Answer:** NQS
**Candidate Answer:** NQS

Question 6.

For the following questions
Find the odd word/letters/number pair from the given alternatives.
दिए गए विकल्पों में से विषम शब्द/संख्या/अक्षर/युग्म चुनिए।
**Options:**
1) (3, 12)
2) (2, 6)
3) (6, 42)
4) (5, 35)
**Correct Answer:** (5, 35)
**Candidate Answer:** (5, 35)

Question 7. Arrange the following words as per order in the dictionary
निम्नलिखित शब्दों को शब्दकोश में दिए गए क्रम के अनुसार लिखिए।
**Options:**
1) 1,2,3,4
2) 1,3,2,4
3) 1,3,4,2
4) 2,3,1,4
**Correct Answer:** 1,3,4,2
**Candidate Answer:** 1,3,4,2

Question 8. Choose the correct alternative from the given ones that will complete the below series
दिए गए विकल्पों में से सही विकल्प पुनःजो अनुक्रम को पूरा करें

\[ W \cup S \cup Q \]
\[
S \cup O \cup R \cup G
\]

**Options:**
1) P/R
2) C/O
3) R/I
4) O/C

**Correct Answer:** O/C

**Candidate Answer:** O/C

Question 9. Find the wrong number in the series.

दी गई श्रेणी में से गलत संख्या कैसे जाने की जितने。

225, 206, 188, 176, 165, 158, 153

**Options:**
1) 225
2) 188
3) 176
4) 153

**Correct Answer:** 188

**Candidate Answer:** 188

Question 10. The sum of the ages of father and a son presently is 70 years. After 10 years, the son’s age is exactly half that of the father. What are their ages now?

एक पिता और उसके पुत्र की आयु का योग 70 साल है। 10 साल बाद पुत्र की उम्र पिता की उम्र से आधी होगी। अब उनकी उम्र कितनी हैं?

**Options:**
1) 45 years, 25 years
2) 50 years, 20 years
3) 47 years, 23 years
4) 50 years, 25 years

**Correct Answer:** 50 years, 20 years

**Candidate Answer:** 50 years, 20 years

Question 11. If the third day of a month is Tuesday, which of the following would be the 25th day of that month?

यदि किसी महीने का तीसरा दिन मंगलवार हो तो उस महीने का 25वाँ दिन कौन-सा होगा?

**Options:**
1) Tuesday
2) Monday
3) Wednesday
4) Sunday

**Correct Answer:** Monday

**Candidate Answer:** Wednesday

Question 12. From the given words, select the word which cannot be formed using the letters of the given word.

निम्नलिखित विकल्पों में से वह शब्द चुनिए जो दिए गए शब्द के अक्षरों का प्रयोग करके नहीं बनाया जा सकता है।

**Options:**
1) DISTANCE
2) STANCE
3) MUSIC
4) CIRCUS
Correct Answer: DISTANCE
Candidate Answer: DISTANCE

Question 13. If BUDDHISM is coded as DWFFJKUO then CHRISTIAN will be coded as ________.

यदि एक कोड में 'BUDDHISM' को 'DWFFJKUO' लिखा जाता है, तो उस कोड में 'CHRISTIAN' को क्या लिखा जायेगा?

Options:
1) EITJUVKBP
2) EJKUVJCO
3) EJTKVJPC
4) EJTKUVKCP
Correct Answer: EJTKUVKCP
Candidate Answer: EJTKUVKCP

Question 14. Some equations are solved on the basis of certain system. Find out the correct answer for unsolved equation on that basis:

कुछ समीकरणों को एक निश्चित प्रणाली के आधार पर हल किया जाता है। उसी आधार पर इस समीकरण का सही उत्तर बताइए।

\[4 \times 5 \times 8 = 584, \ 7 \times 3 \times 9 = 397, \ 9 \times 7 \times 3 = ?\]

Options:
1) 397
2) 793
3) 973
4) 739
Correct Answer: 739
Candidate Answer: 739

Question 15. If - means ÷, + means x, ÷ means -, x means +, then which of the following equations is correct?

यदि - का मतलब है ÷, + का मतलब है x, ÷ का मतलब है -, x का मतलब है +, तो निम्नलिखित में से कौन सा समीकरण सही है?

Options:
1) 43 \times 7 \div 5 + 4 - 8 = 25
2) 48 \div 5 + 8 \times 10 - 2 = 03
3) 36 \times 4 - 12 + 5 \div 3 = 420
4) 42 + 5 \div 6 \times 8 - 3 = 28
Correct Answer: 48 \div 5 + 8 \times 10 - 2 = 03
Candidate Answer: 48 \div 5 + 8 \times 10 - 2 = 03

Question 16. Find the missing number from the given response.

दिए गए विकल्पों में से लुप्त संख्या ज्ञात कीजिए?

<table>
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<th>7</th>
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<th>2</th>
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<td>4</td>
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<td>2</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>69</td>
<td>91</td>
<td>?</td>
</tr>
</tbody>
</table>

Options:
1) 58
2) 65
3) 64
4) 51
Correct Answer: 65
Candidate Answer: 65
Question 17. Facing the East, Rahul turned left and walked 10 m, then he turned to his left again and walked 10 m. He then turned towards his right and went straight to cover 25 m. In which direction is he from his starting point?

Options:
1) North-West
2) North-East
3) South-West
4) South-East

Correct Answer: North-West

Candidate Answer: North-East

Question 18. Consider the given statement/s to be true and decide which of the given conclusions/assumptions can definitely be drawn from the given statement.

Statement: Laugh and the world will laugh with you.

Assumptions:
I. People generally laugh.
II. Laughter symbolises happiness.

Options:
1) Only I is an assumption
2) Only II is an assumption
3) Both I and II are assumptions
4) Neither I nor II is an assumption

Correct Answer: Neither I nor II is an assumption

Candidate Answer: Only II is an assumption

Question 19. How many triangles are there in the given figure?

Options:
1) 24
2) 28
3) 36
4) 32

Correct Answer: 36

Candidate Answer: 36

Question 20. Identify the diagram that best represents the relationship among classes given below:

ELEPHANTS, WOLVES, ANIMALS

Options:
1)
Question 21. Which answer figure will complete the pattern in the question figure?

कौन-सी उत्तर आकृति प्रश्न आकृति के प्रतिरूप को पूरा करेगी?

Options:
1) 
2) 

Correct Answer:

Candidate Answer:
Correct Answer:

Candidate Answer:

Question 22. From the given answer figures, select the one in which the question figure is hidden/embedded.

दी गई उत्तर आकृतियों में से उस आकृति को चुनिए जिसमें प्रश्न आकृति निहित है।

Options:
1) 
2) 
3)
Question 23. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

निम्नलिखित उत्तर आकृतियों में से यह जान कीजिए कि नीचे दिखाए अनुसार कागज को मोड़ने, काटने तथा खोलने के बाद वह किस आकृति जैसे दिखाई देगा?

Options:
1)
Question 24. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

यदि एक दपण को MN रेखा पर रखा जाए तो दी गई उत्तर आकृतियों में से कौन-सी आकृति का सही प्रतिक्रिया होगी?

Options:

- [ ] 1
- [ ] 3
- [ ] 4
- [ ] 2

Candidate Answer: [ NOT ANSWERED ]
Question 25. In this question, the sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., ‘D’ can be represented by 01, 13, etc., and ‘N’ can be represented by 59, 66, etc.

You have to identify the set for the word ‘HEEL’

एक शब्द कैसे एक संख्या-समूह द्वारा दर्शाया गया है, जैसा कि विकल्पों में से किसी एक में दिया गया है। विकल्पों में दिए गए संख्या समूह अक्षरों के दो वर्ग द्वारा दर्शाए गए हैं, जैसे कि नीचे दिए गए दो अचूक में हैं। अचूक I के स्तंभ और पंक्ति की संख्या 0 से 4 और अचूक II की 5 से 9 दी गई है। इन अचूकों से एक अक्षर को पहले उसकी पंक्ति और बाद में स्तंभ संख्या द्वारा दर्शाया जा सकता है। उदाहरण के लिए ‘D’ को 01, 13 आदि द्वारा दर्शाया जा सकता है तथा ‘N’ को 59, 66 आदि द्वारा दर्शाया जा सकता है। इसी तरह से आपको दिए हुए स्वद ‘HEEL’ के लिए समूह को पहचानना है।
Options:
1) 67, 21, 14, 98
2) 75, 88, 65, 01
3) 68, 65, 60, 10
4) 68, 65, 50, 01
Correct Answer: 67, 21, 14, 98
Candidate Answer: 67, 21, 14, 98

Question 26. The term 'Macro Economics' was used by __________.

"बृहत अर्थशास्त्र" (Macro Economics) शब्द का प्रयोग किसने किया था?

Options:
1) J.M. Keynes
2) Ragnar Frisch
3) Ragnar Nurkse
4) Prof. Knight
Correct Answer: Ragnar Frisch
Candidate Answer: J.M. Keynes

Question 27. Who was the first Chancellor of Jamia Millia Islamia University at Aligarh?

अलिगढ़ मिलिया इलामिया विश्वविद्यालय के पहले कुलपति कौन थे?

Options:
1) Abdul Ghaffar Khan
2) Rajkumari Amrit Kaur
3) Hakim Ajmal Khan
4) Sir Sayyad Ahmad Khan
Correct Answer: Hakim Ajmal Khan
Candidate Answer: Abdul Ghaffar Khan

Question 28. Who were the patrons of Sangama Literature?

संगम साहित्य के संरक्षक कौन थे?

Options:
1) Nayakas
2) Chandellas
3) Pandyas
4) Solankis
Correct Answer: Pandyas
Candidate Answer: Chandellas
चंदेल

Question 29. Where in India was the first French factory established?

भारत में पहली फ्रेंच फैक्ट्री कहाँ स्थापित की गई थी?

Options:
1) Surat
सूरत
2) Pondicherry
पांडीचेरी
3) Chandannagore
चंदन नगोर
4) Masulipatnam
मक्कलपट्टनम

Correct Answer: Surat
सूरत

Candidate Answer: Masulipatnam
मक्कलपट्टनम

Question 30. Which algorithm is used to decide the path to transfer the packets from source to destination?

कॉम्युटर स्थल से मानचित्र तक पैकेट को स्थापन करने के मार्ग का निर्णय करने के लिए किस कलनविधि का प्रयोग किया जाता है?

Options:
1) Routing
मार्ग निर्देश
2) Pathing
पथ निर्धारण
3) Selecting
चयन
4) Directing
निर्देशन

Correct Answer: Routing
मार्ग निर्देश

Candidate Answer: [ NOT ANSWERED ]

Question 31. Which one of the following is an ohmic conductor?

निम्नलिखित में से ओम-वालक कौन-सा है?

Options:
1) Germanium
जर्मनियम
2) Silicon
सिलिकन
3) Carbon
कार्बन
4) Silver
सिल्वर

Correct Answer: Silver
सिल्वर

Candidate Answer: Silver
सिल्वर

Question 32. Which mechanism is used by the computer virus 'worm' to duplicate itself?

कंप्यूटर वायरस 'वार्म' को पुनरावृत्ति करने के लिए किस युक्ति का प्रयोग किया जाता है?

Options:
1) Swap
वैप
2) Increment
इन्क्रीमेंट
3) Spawn
स्पॉन
4) Swarm
स्वर्म

Correct Answer: Spawn
स्पॉन

Candidate Answer: Increment
इन्क्रीमेंट

Question 33. The first Commonwealth Games in 1930 was held in which country?

1930 में पहली कमनवेल्थ खेती का आयोजन किस देश में किया गया था?

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Question 34. The gentle 'seaward sloping' surface from the coasts is called ________.

Options:
1) Continental shelf
2) Continental rise
3) Abyssal plains
4) Submarine ridges

Correct Answer: Continental shelf

Candidate Answer: [ NOT ANSWERED ]

Question 35. The aim of Differentiated Interest Scheme was to provide concessional loans to ________.

Options:
1) weaker section of the society
2) Public Sector Industries
3) Public Limited Companies
4) big exports

Correct Answer: weaker section of the society

Candidate Answer: [ NOT ANSWERED ]

Question 36. Anemometer is an instrument meant for measuring ________.

Options:
1) velocity
2) air masses
3) wind speed
4) temperature

Correct Answer: wind speed

Candidate Answer: wind speed

Question 37. Tax on inheritance is called ________.

Options:
1) Excise duty
2) Estate duty
3) Gift tax
4) Sales tax

Correct Answer: Estate duty

Candidate Answer: Estate duty
Correct Answer: Estate duty
Candidate Answer: Estate duty

Question 38. The silver coin 'tanka' was introduced by ________.

Options:
1) Qutubuddin Aibak
2) Iltutmish
3) Balban
4) Bahram Khan

Correct Answer: Iltutmish

Candidate Answer: Iltutmish

Question 39. Which of the following international prizes/awards is given for outstanding contribution in the field of Journalism?

Options:
1) Oscar Award
2) Booker Prize
3) Pulitzer Prize
4) Sullivan Award

Correct Answer: Pulitzer Prize

Candidate Answer: Pulitzer Prize

Question 40. The country which tops in the production of cocoa is ________.

Options:
1) Ghana
2) Brazil
3) Ivory Coast
4) Nigeria

Correct Answer: Ghana

Candidate Answer: Brazil

Question 41. Increased RBC's in the blood leads to a condition called ________.

Options:
1) Anemia
2) Haemophilia
3) Polycythemia
4) Leukaemia

Correct Answer: Polycythemia

Candidate Answer: Polycythemia
Question 42. The spring balance works on the principle of __________.

कमानी तुला कस सांत पर काम करती है?

**Options:**
1) Boyle's Law
   बॉयल नयम
2) Hooke's Law
   हुक नयम
3) Bernoulli's principle
   बर्नूली सिद्धांत
4) Pascal's Law
   पाकल नयम

**Correct Answer:** Hooke's Law
   हुक नयम

**Candidate Answer:** Pascal's Law
   पाकल नयम

Question 43. If there were no gravity, which of the following will not be there for a fluid?

अगर आकषण शक्ति ना हो, तो निम्नलिखित में से कौन सा तरल पदार्थ के लिए लागू नहीं होगा?

**Options:**
1) Viscosity
   विस्कोसिटी
2) Surface Tension
   पृष्ठ तनाव
3) Pressure
   दबाव
4) Upward Thrust
   ऊपरी दबाव

**Correct Answer:** Upward Thrust
   ऊपरी दबाव

**Candidate Answer:** Pressure
   दबाव

Question 44. Calcium salts used as fertilizer is:

उवरकों के रूप में कौन से कैल्शियम लवण प्रयुक्त होते हैं?

**Options:**
1) Calcium Carbide
   कैल्शियम काबाइड
2) Calcium Carbonate
   कैल्शियम काबनेट
3) Calcium Cyanide
   कैल्शियम साइनाइड
4) Calcium Sulphate
   कैल्शियम सफेट

**Correct Answer:** Calcium Sulphate
   कैल्शियम सफेट

**Candidate Answer:** Calcium Carbide
   कैल्शियम काबाइड

Question 45. The Jawaharlal Nehru Award is given for __________.

जवहरलाल नेहरू पुरस्कार कसलए दया जाता है?

**Options:**
1) Government service
   सरकारी सेवा
2) Literary work
   साहित्यिक सेवा
3) International understanding
   अन्तरराष्ट्रीय समझदारी
4) Social work
   सामाजिक कार्य

**Correct Answer:** International understanding
   अन्तरराष्ट्रीय समझदारी

**Candidate Answer:** International understanding
   अन्तरराष्ट्रीय समझदारी

Question 46. Which of the following is called 'Queen of the Adriatic'?

एएटक के रानी किसे कहते है?

**Options:**
1) Venice
   वेनिस
Question 47. The liberation of oxygen during photosynthesis is due to ________.

Correct Answer: Venice

Candidate Answer: [ NOT ANSWERED ]

Options:
1) hydrolysis of carbohydrates
2) photolysis of water
3) reduction of $CO_2$
4) breakdown of chlorophyll

Correct Answer: photolysis of water

Candidate Answer: photolysis of water

Question 48. Formic acid is produced by ________.

Correct Answer: Red ants

Candidate Answer: Red ants

Options:
1) White ants
2) Cockroaches
3) Red ants
4) Mosquitoes

Question 49. Which one of the following forms of phosphorus is most reactive?

Correct Answer: White phosphorus

Candidate Answer: White phosphorus

Options:
1) Black phosphorus
2) White phosphorus
3) Violet phosphorus
4) Red phosphorus

Question 50. Zubin Mehta is associated with ________.

Correct Answer: Music

Candidate Answer: Music

Options:
1) Literature
2) Painting
3) Music

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4) Journalism
Correct Answer: Music
Candidate Answer: Painting

Question 51. If $3^{10} \times 27^2 = 9^2 \times 3^n$ then the value of $n$ is

Options:
1) 10
2) 12
3) 15
4) 30
Correct Answer: 12
Candidate Answer: 10

Question 52. The radius of two cylinders are in the ratio of 3:2 and their heights are in the ratio 3:7. The ratio of their volumes is:

Options:
1) 4:7
2) 7:4
3) 28:27
4) 27:28
Correct Answer: 27:28
Candidate Answer: 27:28

Question 53. The list price (marked price) of an article is Rs. 900 and is available at two successive discounts of 20% and 10%; the selling price of the article, in rupees, is

Options:
1) 640
2) 648
3) 720
4) 738
Correct Answer: 648
Candidate Answer: 648

Question 54. A, B and C enter into a partnership, investing Rs. 6000. A invests Rs. 1000 and B and C invest in the ratio of 2:3. Find the profit of C, when the annual profit is Rs. 2400

Options:
1) Rs.600
2) Rs.1200
3) Rs.1800
4) Rs.1950
Correct Answer: Rs.1200
Candidate Answer: Rs.1200

Question 55. Average of two numbers is 8 and average of other three numbers is 3; the average of the five numbers is

Options:
1) 2
2) 3
Question 56. To make a profit of 20% the selling price of the good is Rs. 240. The cost price of the good is,
यदि किसी वस्तु की रोप 240 में बेचने पर 20% का लाभ होता है, तो उस वस्तु का क्रय मूल्य ज्ञात कीजिए?

Options:
1) Rs. 200
2) Rs. 210
3) Rs. 220
4) Rs. 230

Correct Answer: Rs. 200
Candidate Answer: Rs. 200

Question 57. In an examination, 35% of total students failed in Hindi, 45% failed in English and 20% failed in both. Find the percentage of those students who passed in both the subjects?
किसी परीक्षा में 35% छात्र हिंदी में फेल हुए, 45% छात्र अंग्रेजी में फेल हुए और 20% छात्र दोनों विषयों में फेल हुए। उन छात्रों का प्रतिशत ज्ञात कीजिए जो दोनों विषयों में पास हुए?

Options:
1) 45%
2) 35%
3) 20%
4) 40%

Correct Answer: 40%
Candidate Answer: 40%

Question 58. A man travels 50 km at speed 25 km/h and next 40 km at 20 km/h and thereafter travels 90 km at 15 km/h. His average speed is
कोई व्यक्ति 50 कि.मी. की रफ्तार 25 कि.मी. तर पर पर्यटन करता है और अगले 40 कि.मी. की रफ्तार 20 कि.मी. तर पर पर्यटन करता है और उसके बाद 90 कि.मी. की रफ्तार 15 कि.मी. तर पर पर्यटन करता है। उसकी औसत रफ्तार क्या है?

Options:
1) 18
2) 25
3) 20
4) 15

Correct Answer: 18
Candidate Answer: 18

Question 59.
If \( x + \frac{1}{x} \neq 0 \) and \( x^3 + \frac{1}{x^3} = 0 \) then the value \( (x + \frac{1}{x})^4 \) is
यदि \( x + \frac{1}{x} \neq 0 \) और \( x^3 + \frac{1}{x^3} = 0 \) हो तो \( (x + \frac{1}{x})^4 \) का मान बताइए।

Options:
1) 9
2) 12
3) 15
4) 16

Correct Answer: 9
Candidate Answer: [ NOT ANSWERED ]

Question 60.
If \( x + \frac{1}{x} = 2 \) then \( x^2 + \frac{1}{x^2} \) is equal to
यदि \( x + \frac{1}{x} = 2 \) तो \( x^2 + \frac{1}{x^2} \) का मान बताइए।

Options:
1) 2
2) 3
3) 4
4) 5

Correct Answer: 3
Candidate Answer: [ NOT ANSWERED ]
If \( x + \frac{1}{x} = 2 \), then \( x^2 + \frac{1}{x^2} \) is how much?

Options:
1) 0
2) 2
3) 4
4) 8
Correct Answer: 2
Candidate Answer: 2

Question 61. The orthocentre of a triangle lies on one of the sides. Then_____
यदि किसी कोण का लंब-केन्द्र किसी एक भुजा पर है, तो _______

Options:
1) The orthocentre lies on a vertex
लंब-केन्द्र शरीर बन गया है
2) circumcentre lies outside the triangle
परकेन्द्र बाहरी त्रिभुज के बाहर है
3) circumcentre lies on the same side
परकेन्द्र उसी भुजा पर है
4) centroid coincides with orthocentre
केंद्र और लंब केन्द्र के साथ है
Correct Answer: The orthocentre lies on a vertex
लंब-केन्द्र शरीर बन गया है
Candidate Answer: [ NOT ANSWERED ]

Question 62. Three sides of a triangle are 5 cm, 9 cm and x cm. The minimum integral value of x is
किसी कोण के तीन भुजाएं 5 से.मी., 9 से.मी. और x से.मी. हैं। x का स्थिरतम पूर्ण मान बताएँ?

Options:
1) 2
2) 3
3) 4
4) 5
Correct Answer: 5
Candidate Answer: 5

Question 63. The value of \( \cos^2 20^\circ + \cos^2 70^\circ \) is
\( \cos^2 20^\circ + \cos^2 70^\circ \) का मान ज्ञात कीजिए?

Options:
1) \( \sqrt{2} \)
2) 2
3) \( \frac{1}{\sqrt{2}} \)
4) 1
Correct Answer: 1
Candidate Answer: 1

Question 64. If 5 person together can make 5 mats in 5 hrs, then 10 person in 10 hours will make
यदि 5 आदमी 10 घंटे में 5 चटाइयाँ बना सकते हैं। तो 10 आदमी 10 घंटे में कितनी चटाइयाँ बनाएंगे?

Options:
1) 20 mats
20 चटाइयाँ
2) 10 mats
10 चटाइयाँ
3) 15 mats
15 चटाइयाँ
4) 5 mats
5 चटाइयाँ
Question 65. If $a + b = 17$ and $a - b = 9$ then the value of $(4a^2 + 4b^2)$ is,

**Options:**
1) 710
2) 720
3) 730
4) 740

**Correct Answer:** 740

**Candidate Answer:**

Question 66. If $x + y = \sqrt{3}$ and $x - y = \sqrt{2}$, then the value of $8xy (x^2 + y^2)$ is

**Options:**
1) $6$
2) $\sqrt{6}$
3) $5$
4) $\sqrt{5}$

**Correct Answer:** 5

**Candidate Answer:**

Question 67. The length of a chord which is at a distance of 5cm from the centre of a circle of radius 13cm is

**Options:**
1) 18cm
2) 24cm
3) 25cm
4) 30cm

**Correct Answer:** 24cm

**Candidate Answer:**

Question 68. If the measures of the angles of a triangle are in the ratio 1:2:3 and if the length of the smallest side of the triangle is 10cm, then the length of the longest side is

**Options:**
1) 20cm
2) 25cm
3) 30cm
4) 35cm

**Correct Answer:** 20cm

**Candidate Answer:** [ NOT ANSWERED ]

Question 69. If $\cos A + \cos^2 A = 1$ then the value of $\sin^2 A + \sin^4 A$ is:

**Options:**
1) $\frac{1}{2}$
2) $\frac{1}{4}$
3) $\frac{1}{3}$

4) 1

**Correct Answer:** 1

**Candidate Answer:** 1

Question 70. A sum of Rs. 3000 amounts to Rs. 6000 in two years at compound interest. The interest for four years is Rs. 3000. Find the interest for two years at simple interest.

**Options:**
1) Rs.9000
2) Rs.12000
3) Rs.6000
4) Rs.3000

**Correct Answer:** Rs.9000

**Candidate Answer:** Rs.9000

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**Question 71.** The angles of depression of two ships from the top of a light house are 45° and 30° toward east. If the ships are 200m apart, the height of the light house is (take $\sqrt{3}=1.73$)

**Options:**
1) 273m
2) 270m
3) 253m
4) 263m

**Correct Answer:** 273m

**Candidate Answer:** 273m

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**Question 72.** This is a pie chart for the data on A, B, O, AB blood groups of 150 donors. Observe the pie chart and answer the questions.

- The number of donors having blood group 'O' is:
- The number of donors having blood group 'AB' is:

![Pie Chart Image]

**The number of donors having blood group 'O' is:**

**The number of donors having blood group 'AB' is:**
The number of persons having either blood group 'A' or blood group 'B' is

Options:
1) 84
2) 96
3) 78
4) 54
Correct Answer: 84
Candidate Answer: 54

What is the percentage of donor having blood group 'AB'?

Options:
1) 61%
2) 26%
3) 16%
4) 36%
Correct Answer: 16%
Candidate Answer: 16%
Question 75. This is a pie chart for the data on A, B, O, AB blood groups of 150 donors. Observe the pie chart and answer the questions.

दिए गए पाई चाट में 150 दाताओं के ब्लड ग्रुप A, B, O, AB के ऑंकड़ों को दर्शाया गया है। पाई चाट का अध्ययन कीजिए और प्रश्नों के उत्तर दीजिए।

The ratio of donors having blood group 'A' to the average of the donors having blood group 'O', 'B' and 'AB' is

जिन दाताओं का ब्लड ग्रुप 'A' है उनका और जिन दाताओं का ब्लड ग्रुप 'O', 'B' और 'AB' है उनके औसत का अनुपात जानें?

Options:
1) 4:3
2) 4:5
3) 5:4
4) 3:4
Correct Answer: 3:4
Candidate Answer: 3:4

Question 76. In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word and click the button corresponding to it.

ARDOUS
Options:
1) FERVENT
2) STRONG
3) ENTHUSIASTIC
4) STRENUOUS
Correct Answer: STRENUOUS
Candidate Answer: STRONG

Question 77. In the following question, out of the four alternatives, choose the word which is opposite in meaning to the given word and click the button corresponding to it.

QUIESCENT
Options:
1) IGNORANT
2) DORMANT
3) INNOCENT
4) IMPROPER
Correct Answer: DORMANT
Candidate Answer: IGNORANT

Question 78. Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word and click the button corresponding to it.

Options:
1) Commemorate
2) Commemorate
3) Commemorate
4) Commemorate
Correct Answer: Commemorate
Candidate Answer: Commemorate
Question 79. In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

Beside, writing is my hobby, (A) / I had ideas for a couple of short stories (B) / that needed further thought. (C) / No Error (D)

**Options:**
1) A
2) B
3) C
4) D

**Correct Answer:** A

**Candidate Answer:** A

Question 80. In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

He recommended (A) / my case (B) / with the supervisor (C) / No Error (D)

**Options:**
1) A
2) B
3) C
4) D

**Correct Answer:** C

**Candidate Answer:** C

Question 81. In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

Her knowledge in English (A) / gives her great advantage (B) / over me. (C) / No Error (D)

**Options:**
1) A
2) B
3) C
4) D

**Correct Answer:** A

**Candidate Answer:** A

Question 82. The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.

Do not _____ your own personal views upon the reader.

**Options:**
1) expose
2) interpose
3) express
4) impose

**Correct Answer:** impose

**Candidate Answer:** impose

Question 83. The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.

This school isn't _____ from the last one.

**Options:**
1) more different
2) any different
3) difference
4) any difference

**Correct Answer:** any different

**Candidate Answer:** any different

Question 84. The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.

I have decided _____ my course of action.

**Options:**
1) upon
2) with
3) for
4) of

**Correct Answer:** upon
Question 85. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

To bury the hatchet

**Options:**
1) To make peace
2) To dig the ground
3) To negotiate
4) To make war

**Correct Answer:** To make peace

**Candidate Answer:** [ NOT ANSWERED ]

Question 86. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

Selling like hot cakes

**Options:**
1) To have a good season
2) To become as planned
3) To have a very slow sale
4) To have a very good sale

**Correct Answer:** To have a very good sale

**Candidate Answer:** To have a good season

Question 87. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

Scot free

**Options:**
1) Unlimited
2) Unpunished
3) To freedom
4) Unrepentant

**Correct Answer:** Unpunished

**Candidate Answer:** [ NOT ANSWERED ]

Question 88. Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.

A thing no longer in use

**Options:**
1) Illusion
2) Illegal
3) Obsolete
4) Historic

**Correct Answer:** Obsolete

**Candidate Answer:** Obsolete

Question 89. Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.

A place where astronomical observations are made

**Options:**
1) Laboratory
2) Observatory
3) Astrolibrary
4) Astrophy

**Correct Answer:** Observatory

**Candidate Answer:** Observatory

Question 90. Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.

Killing one's sister

**Options:**
1) Regicide
2) Fratricide
3) Matricide
4) Sororicide

**Correct Answer:** Sororicide

**Candidate Answer:** [ NOT ANSWERED ]
Question 91. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

Government officials keep throwing the buck to others.

Options:
1) giving
2) passing
3) donating
4) No improvement

Correct Answer: passing
Candidate Answer: passing

Question 92. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

She angrily broke up the letter.

Options:
1) tore up
2) break in
3) teared up
4) No improvement

Correct Answer: tore up
Candidate Answer: tore up

Question 93. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

They told me that they had build a new house.

Options:
1) have built
2) have build
3) had built
4) No improvement

Correct Answer: had built
Candidate Answer: had built

Question 94. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

One should exercise their right to vote

Options:
1) his
2) our
3) one’s
4) No improvement

Correct Answer: No improvement

Candidate Answer: his

Question 95. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

She sank back with a mourn of pain

Options:
1) morn
2) mourne
3) moan
4) No improvement

Correct Answer: moan
Candidate Answer: No improvement

Correct Answer: No improvement

Question 96. A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it.

Acharya Jagadish Chandra Bose, one of the greatest of modern scientists, graduated from St. Xavier’s College, Kolkata. He then obtained Tripos of Cambridge University and joined the Presidency College, Kolkata, as Professor of Physics. He was a pioneer in the discovery of the wireless and radio and the Microwave. He made remarkable contribution to the science of Botany by proving with the help of an instrument of his own invention that not only do trees and plants have life, but feel pleasure and pain as we do. He was perhaps the first scientist to suggest the possibility of gathering and utilising energy from solar rays. Last but not least was the Bose Institute which he founded in 1917. It has now become a world-famous Research Laboratory doing yeoman’s service to various branches of science.

Acharya Jagadish Chandra Bose, one of the greatest of modern scientists, graduated from which college?

Options:
1) St. Xavier’s College, Kolkata
Acharya Jagadish Chandra Bose, one of the greatest of modern scientists, graduated from St. Xavier’s College, Kolkata. He then obtained Tripos of Cambridge University and joined the Presidency College, Kolkata, as Professor of Physics. He was a pioneer in the discovery of the wireless and radio and the Microwave. He made remarkable contribution to the science of Botany by proving with the help of an instrument of his own invention that not only do trees and plants have life, but feel pleasure and pain as we do. He was perhaps the first scientist to suggest the possibility of gathering and utilising energy from solar rays. Last but not least was the Bose Institute which he founded in 1917. It has now become a world-famous Research Laboratory doing yeoman's service to various branches of science.

What is meant by yeoman service?

Options:
1) Minimal
2) Invaluable
3) Discreet
4) Sporadic

Correct Answer: Invaluable
Candidate Answer: Invaluable

Acharya Jagadish Chandra Bose was a pioneer in the discovery of the wireless, radio and the _____.

Options:
1) Toaster
2) Oven
3) Microwave
4) Radio

Correct Answer: Microwave
Candidate Answer: Microwave

Acharya Jagadish Chandra Bose made remarkable contribution to the science of Botany by proving with the help of an instrument of his own invention that trees and plants have not only life, but ______.

Options:
1) feel joyous and excited as we do.
2) feel happy and sad as we do.
3) feel excitement and pain as we do.
4) feel pleasure and pain as we do.

Correct Answer: feel pleasure and pain as we do.
Candidate Answer: feel pleasure and pain as we do.

Acharya Jagadish Chandra Bose made remarkable contribution to the science of Botany by proving with the help of an instrument of his own invention that trees and plants have not only life, but ______.

Options:
1) A scholarship
2) A reward
3) A scholarship
4) A scholarship

Correct Answer: A scholarship
Candidate Answer: A scholarship

What is meant by a Tripos from Cambridge University?

Options:
1) A scholarship
2) A reward
3) A scholarship
4) A scholarship

Correct Answer: A scholarship
Candidate Answer: A scholarship

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it.

What is meant by yeoman service?

Options:
1) Minimal
2) Invaluable
3) Discreet
4) Sporadic

Correct Answer: Invaluable
Candidate Answer: Invaluable

Acharya Jagadish Chandra Bose was a pioneer in the discovery of the wireless, radio and the _____.

Options:
1) Toaster
2) Oven
3) Microwave
4) Radio

Correct Answer: Microwave
Candidate Answer: Microwave

Acharya Jagadish Chandra Bose made remarkable contribution to the science of Botany by proving with the help of an instrument of his own invention that trees and plants have not only life, but ______.

Options:
1) feel joyous and excited as we do.
2) feel happy and sad as we do.
3) feel excitement and pain as we do.
4) feel pleasure and pain as we do.

Correct Answer: feel pleasure and pain as we do.
Candidate Answer: feel pleasure and pain as we do.

Acharya Jagadish Chandra Bose made remarkable contribution to the science of Botany by proving with the help of an instrument of his own invention that trees and plants have not only life, but ______.

Options:
1) A scholarship
2) A reward
3) A scholarship
4) A scholarship

Correct Answer: A scholarship
Candidate Answer: A scholarship

What is meant by a Tripos from Cambridge University?
1) A scholarship
2) A trophy
3) A degree
4) A medallion

Correct Answer: A degree
Candidate Answer: [ NOT ANSWERED ]