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

दिये गये विकल्प में से संबंधित शब्द/अक्षरों/संख्या को चुनिए।

Cell: Cytology:: Birds: ?

कोषिका: कोषिका-विज्ञान :: पक्षी: ?

**Options:**
1) Odontology दند-विज्ञान
2) Mycology कक्ष-विज्ञान
3) Ornithology पक्षी-विज्ञान
4) Etymology वाक्यविच-विज्ञान

**Correct Answer:** Ornithology पक्षी-विज्ञान

**Candidate Answer:** Ornithology पक्षी-विज्ञान

---

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

दिये गये विकल्प में से संबंधित शब्द/अक्षरों/संख्या को चुनिए।

DHP:WSOK::FJNI: ?

**Options:**
1) UQMI
2) TPLH
3) SOKG
4) VRNJ

**Correct Answer:** UQMI

**Candidate Answer:** UQMI

---

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

दिये गये विकल्प में से संबंधित शब्द/अक्षरों/संख्या को चुनिए।

2:10::26: ?

**Options:**
1) 50
2) 36
3) 42
4) 20

**Correct Answer:** 50

**Candidate Answer:** 36
For the following questions

Find the odd word/letters/number pair from the given alternatives.

दिये गये विकल्पों में से विषम शब्द/ संख्या/ अंक युक्त मानिए।

Options:
1) EHJ
2) JML
3) PSR
4) VYX
Correct Answer: EHJ
Candidate Answer: EHJ

Question 5.

For the following questions

Find the odd word/letters/number pair from the given alternatives.

दिये गये विकल्पों में से विषम शब्द/ संख्या/ अंक युक्त मानिए।

Options:
1) Tomcat
2) Baby
3) Fawn हिंदी का बच्चा
4) Cub शाखक
Correct Answer: Baby
Candidate Answer: Tomcat

Question 6.

For the following questions

Find the odd word/letters/number pair from the given alternatives.

दिये गये विकल्पों में से विषम शब्द/ संख्या/ अंक युक्त मानिए।

Options:
1) 11
2) 17
3) 19
4) 21
Correct Answer: 21
Candidate Answer: 21

Question 7. Arrange the following words as per order in the dictionary.

निर्देशित शब्दों की शब्दक्रम में दिए गए क्रम के अनुसार व्यवस्थित कीजिए

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

Question 8. A series is given below with one term missing. Choose the correct alternative from the given ones that will complete the series.

नीचे एक अनुक्रम दिया गया है, जिसमें एक पद तूला है। दिए गए विकल्पों में से वह सही विकल्प चुनिये।

SCD, TEF, UGH ?, WKL
Options:
1) CMN
2) VII
3) VIJ
4) IIT
Correct Answer: VII
Candidate Answer: VII

Question 9. A series is given below with one term missing. Choose the correct alternative from the given ones that will complete the series.

नीचे एक अनुक्रम दिया गया है, जिसमें एक पद तूला है। दिए गए विकल्पों में से वह सही विकल्प चुनिये।

124, 235, 346, 457, ?
Options:
1) 455
2) 465
3) 565
4) 568
Correct Answer: 568
Candidate Answer: 568

Question 10. F is the brother of A. C is the daughter of A. K is the sister of F, G is the brother of C. Who is the uncle of G?

F, A का भाई है। C, A की पुत्री है। K, F की बहन है। G, C का भाई है। G का चलचला कौन है?
Options:
1) A
2) C
3) K
4) F
Correct Answer: F
Candidate Answer: F

Question 11. If Jhansi is 12 ahead in rank of Prabha, who ranks 15th from last, then how many students are there in the class if Jhansi ranks 4th in order of merit?

झाँसी रैंक में प्रभा से 12 स्थान अगे है और प्रभा अंतिम स्थान से 15वीं रैंक पर है। यदि झाँसी मेरिट क्रम में 4वें स्थान पर है तो उस कक्षा में कितने छात्र हैं?
Options:
1) 23
2) 27
3) 30
4) 31
Correct Answer: 30
Candidate Answer: 30
Question 12. From the given words, select the word which cannot be formed using the letters of the given word.

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

ENVIRONMENT
Options:
1) ENTER
2) METRE
3) IRON
4) MOMENTUM
Correct Answer: MOMENTUM
Candidate Answer: MOMENTUM

Question 13. If 'BASKET' is written as 'TEKSAB' how can 'PILLOW' be written in that code?

यदि किसी कोड भाषा में 'BASKET' को 'TEKSAB' लिखा जाता है, तो उसी कोड भाषा में 'PILLOW' को कैसे लिखा जाएगा?
Options:
1) LOWPIL
2) WOLLIP
3) LOWLIP
4) WOLPIL
Correct Answer: WOLLIP
Candidate Answer: WOLLIP

Question 14. If '+' means '-' and '-' means 'X', '+' means '+' and '-' means '+' then 2 ÷ 6 x 6 ÷ 2 = ?

यदि '+' का अर्थ है '-' , '-' का अर्थ है 'X', '+' का अर्थ है '+' और '-' का अर्थ है '+' तो 2 ÷ 6 x 6 ÷ 2 = ?
Options:
1) 1
2) 0
3) 10
4) 5
Correct Answer: 5
Candidate Answer: 5

Question 15. If 6 x 9 x 3 = 963 and 4 x 8 x 5 = 845, then 9 x 4 x 7 = ?

यदि 6 x 9 x 3 = 963 और 4 x 8 x 5 = 845, तो 9 x 4 x 7 = ?
Options:
1) 974
2) 479
3) 497
4) 749
Correct Answer: 497
Candidate Answer: 497
Question 16. Select the missing number from the given responses:

दिए गए विकल्पों में से तुलन अंक क्या है?

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<td>2</td>
</tr>
<tr>
<td>36</td>
<td>210</td>
<td>36</td>
</tr>
</tbody>
</table>

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

Candidate Answer: 2

Question 17. Ashok went 8 kms south and turned west and walked 3 kms. Again he turned north and walked 5 kms. He took a final turn to east and walked 3 kms. In which direction was Ashok from the starting point?

अशोक 8 कि.मी. दक्षिण की ओर चला और पश्चिम की ओर मुड़कर 3 कि.मी. चला। फिर वह उत्तर की ओर चुड़ा और 5 कि.मी. चला। अन्त में वह पूर्व दिशा की ओर मुड़ा और 3 कि.मी. चला। अशोक प्रारंभिक स्थान से किस दिशा में था?

Options:
1) East  
2) North  
3) West  
4) South  
Correct Answer: South

Candidate Answer: South

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: Ahimsa should be basic principle of human beings. All of us should practise Ahimsa.

Conclusions: I. We all know the real meaning of Ahimsa.  
Conclusions: II. Ahimsa promotes global harmony.

निम्नलिखित प्रमाण में एक या दो वक्तव्य दिये गये हैं, जिसके अनुसार दो निष्कर्ष/मान्यताएं, I और II निकाले गये हैं। आपको विचार कराना है कि वक्तव्य सम्पूर्ण है जिसे वह सामान्यतः शर्त तथ्यों से पिछले प्रलंबत नहीं होते। आपको निर्धारित कराना है कि दिये गए वक्तव्य में से कोने से संबंधित रूप से सही निष्कर्ष/मान्यता निकाला जा सकता है?

प्रकरण I: अहिंसा गणना जीवन का मूल किद्दम होना वाला। इस सभी को अहिंसा का अपनी तरह प्राप्त होता है।

परिस्थिति II: अहिंसा वैश्विक सीमाएं की ज्ञान देती है।

Options:
1) only conclusion I follows  
2) only conclusion II follows  
3) Neither I conclusion nor II follows  
4) Both conclusion I & II follow  
Correct Answer: Neither I conclusion nor II follows  
Candidate Answer: only conclusion II follows
Question 19. Of a cubical container, all the six faces have different markings indicating the position of the equipment packed inside. Which symbol is opposite the face having C?

एक घनीय कंटेनर के। सभी छ फलकों में अंतर पैक किए गए उपकरणों की स्थिति को दर्शाते हुए निर्देश-दिशा विन्यास अंकित किए गए हैं। कौन-सा फलक C के पूर्व है?

Options:
1) Z
2) B
3) X
4) Y
Correct Answer: Z
Candidate Answer: Z

Question 20. Identify the diagram that best represents the relationship among classes given below:
Minutes, Days, Months

बन अरेखा व्युत्पन्न जो नीचे दिए गए वर्गों के बीच सम्बन्ध को सही दर्शाता है।
मिनट, दिन, महीने

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

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)

3)

4)

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

उसके उत्तर आकृति को दिखाइए जिसमें प्रश्न आकृति निहित है

Options:
1)
2)
3)
4)
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.

नीचे प्रश्न आकृतियों में दर्शाया वितरण अनुसार कागज को मोड़ने, काटने तथा खोलने के बाद वह किस आकृति जैसा दिखाई देगा?

Options:
1)

2)

3)

4)
Correct Answer:

Candidate Answer:

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

Options:
1)

2)

3)

4)
Question 25. In the question, a word is represented by only one set of numbers as given in any one of the alternatives. 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., G can be represented by 03, 12, etc., and 'L' can be represented by 57, 65, etc. Similarly you have to identify the set for the word 'DATE'.

निम्नलिखित प्रश्न में विकल्पों में दिए गए संख्या-समूह, अक्षरों के दो नागरिक द्वारा दर्शाए गए हैं, जैसे कि नीचे दिए गए दो आकृतियों में हैं। आकृति I के स्तंभ और पंक्ति की संख्या 0 से 4 तक दी गई है, और आकृति II के 5 से 9 तक, इन आकृतियों से एक अक्षर को चुनने उसकी पंक्ति और स्तंभ में संख्या द्वारा दर्शाया जा सकता है। उदाहरण के लिए 'G' को 03, 12 आदि द्वारा दर्शाया जा सकता है और 'L' को 57, 65 आदि द्वारा दर्शाया जा सकता है। इसी तरह से आपको दिए दस शब्द 'DATE' के लिए संख्या को पहचानना है।

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**Options:**
1) 23, 68, 24, 97
2) 14, 96, 11, 85
3) 23, 96, 40, 85
4) 32, 89, 10, 68

**Correct Answer:** 23, 68, 24, 97

**Candidate Answer:** 23, 68, 24, 97

Question 26. MUDRA Bank has been launched to help

मुद्रा बैंक किस-किसकी सहायता के लिए शुरू की गई है?

**Options:**
1) Small business
लघु कारोबार
2) Marginal farmers
सैकड़ा खेतीकर
3) Poor women
गरीब महिलाएं
4) Rural sector
ग्रामीण क्षेत्र

**Correct Answer:** Small business

**Candidate Answer:** Small business

**Candidate Answer:** Small business

Question 27. Which of the following controls the insurance business of India?

भारत में निम्नलिखित में से कौन बीमा कारोबार को नियंत्रित करता है?

http://thepracticetest.in/challengesystem/response_questions.php?tid=MDM=&appcid=1a4ff78943b24af40c79deccf09bb67
Question 28. The Speaker of Lok Sabha addresses his letter of resignation to the

Question 29. Who presided over the first session of the Indian National Congress?

Question 30. Which of the following writers has called Akbar's Din-i-Ilahi as a monument of his folly, not of wisdom?

Question 31. Which of the following region in India is now regarded as an "Ecological Hot Spot"?
Options:
1) Western Himalayas
2) Eastern Himalayas
3) Western Ghats
4) Eastern Ghats

Correct Answer: Western Ghats
Candidate Answer: Eastern Ghats

Question 32. The Beaufort scale is used to measure:

**Options:**
1) Atmospheric pressure
2) Altitudes of mountains
3) Wind velocity
4) Intensity of earthquakes

Correct Answer: Wind velocity
Candidate Answer: Altitudes of mountains

Question 33. The waste management technique that involves the use of micro-organisms to remove or neutralize pollutants from contaminated site is called:

**Options:**
1) Bio sensor
2) Bio magnification
3) Bio remediation
4) Bio concentration

Correct Answer: Bio remediation
Candidate Answer: Bio remediation

Question 34. In IT networking, which of the following device is used in physical layer?

**Options:**
1) Repeater
2) Router
3) Transport Gateway
4) Bridge

Correct Answer: Repeater
Candidate Answer: Router

Question 35. The purest form of water in nature is:

**Options:**
1) Western Himalayas
2) Eastern Himalayas
3) Western Ghats
4) Eastern Ghats

Correct Answer: Western Ghats
Candidate Answer: Western Ghats

Question 36. The Beaufort scale is used to measure:

**Options:**
1) Atmospheric pressure
2) Altitudes of mountains
3) Wind velocity
4) Intensity of earthquakes

Correct Answer: Wind velocity
Candidate Answer: Altitudes of mountains
Question 36. The source of energy that causes the least global warming is

Correct Answer: Geothermal energy

Question 37. The constellation 'Sapta Rishi' is known to Westerners as the

Correct Answer: Big Dipper

Question 38. Bridge is the technique used in

Correct Answer: Wrestling

Question 39. Which of the following books is called the 'Bible of Socialism'?

Correct Answer: Capital
Question 40. Which country recently detonated its first hydrogen bomb?

निन्हीं हिमस्रो भूमि से किस देश ने अपने प्रथम हिमस्रो भूमि द्राक्ष का हासल में विस्फोट किया?

**Options:**
1) North Korea
2) South Korea
3) Iran
4) Libya

**Correct Answer:** North Korea

**Candidate Answer:** North Korea

---

Question 41. The Swarna Jayanti Shahari Rojgar Yojna (SJRY) mainly aims at creating employment opportunities for

स्वर्ण जयंती शहरी रोजगार योजना (SJRY) का मुख्य उद्देश्य किस प्रकार के रोजगार के अवसर उत्पन्न करना है?

**Options:**
1) Both self employment and wage employment in urban areas
2) Self employment in urban areas only
3) Wage employment in urban areas only
4) None of these

**Correct Answer:** Both self employment and wage employment in urban areas

**Candidate Answer:** Wage employment in urban areas only

---

Question 42. Who is known as the 'Father of Green Revolution' in India?

भारत में हरीत-क्रांति का जनक किसे कहा जाता है?

**Options:**
1) G. Paul
2) Norman Borlaug
3) Van Neil
4) Dr. Mithchell

**Correct Answer:** Norman Borlaug

**Candidate Answer:** Norman Borlaug

---

Question 43. The component used for tuning a radio is basically a variable ________________.

रेडियो की चर्बियाँ के लिए प्रयुक्त प्रत्येक मूल्य: एक ________________ होता है।
Options:
1) Resistor
2) Condenser
3) Inductor
4) Transformer
Correct Answer: Condenser

Question 44. Which of the following is not a donor atom?

निम्नलिखित में से कौन दाता परमाणु नहीं है?

Options:
1) Phosphorus
2) Antimony
3) Arsenic
4) Aluminium
Correct Answer: Aluminium

Question 45. Which one of the following parties was founded by Subhash Chandra Bose?

सुभाष चन्द्र बोस ने निम्नलिखित में से किस पार्टी की स्थापना की थी?

Options:
1) Abhinav Bharat
2) Azad Hind Sena
3) Revolutionary Army
4) Forward Block
Correct Answer: Forward Block

Question 46. 0°C is equivalent to

0°C किसके बराबर है?

Options:
1) 273°C
2) -273°C
3) 0°C
4) 100°C
Correct Answer: -273°C

Question 47. The oxygen liberated during photosynthesis comes from

प्रकाश-संचालन के दौरान उत्पन्न ओक्सीजन कहाँ से आती है?

Options:
1) Water
2) Carbon dioxide
3) Glucose
4) Chlorophyll
Correct Answer: Water
Candidate Answer: Carbon dioxide
कार्बन डाइऑक्साइड

Question 48. First national park of India that was established in 1936 was named as

भारत में 1936 में स्थापित प्रथम राष्ट्रीय उद्यान का क्या नाम रखा गया था?

Options:
1) Kanha National Park
कान्हा राष्ट्रीय उद्यान
2) Bharatpur National Park
भरतपुर राष्ट्रीय उद्यान
3) Hailey National Park
हैली राष्ट्रीय उद्यान
4) Rajaji National Park
राजाजी राष्ट्रीय उद्यान

Correct Answer: Hailey National Park
हैली राष्ट्रीय उद्यान

Candidate Answer: Hailey National Park
हैली राष्ट्रीय उद्यान

Question 49. Who is the 1st Indian female amputee to climb Mount Everest?

माउंट इवरेस्ट पर चढ़ने वाली पहली भारतीय महिला कौन है?

Options:
1) Arunima Sinha
अरुणिमा सिन्हा
2) Bachendri Pal
बचेंद्री पाल
3) Santosh Yadav
संतोष यादव
4) Premalata Agarwal
प्रेमलता अगारवाल

Correct Answer: Arunima Sinha
अरुणिमा सिन्हा

Candidate Answer: Arunima Sinha
अरुणिमा सिन्हा

Question 50. The term 'Higgs Boson' is associated with

'हिग्स बोसन' का संबन्ध किससे है?

Options:
1) Nano Technology
नॉनो टेक्नोलॉजी (अतिक्षुम बृहत्तभूतिकी)
2) Oncology
अंकॉलोजी
3) God Particle
गॉड पार्टिकल
4) Stem Cell Research
स्टेम सेल रिसर्च

Correct Answer: God Particle
गॉड पार्टिकल

Candidate Answer: God Particle
गॉड पार्टिकल

Question 51. If 100 cats kill 100 mice in 100 days, then 4 cats would kill 4 mice in how many days?

यदि 100 क्षुद्रीयों 100 दिन में 100 चूहे मारती हैं तो 4 क्षुद्रीयों ने चूहे कितने दिन में मारेंगी?

Options:
1) 4 days
4 दिन
2) 3 days
3 दिन
3) 40 days
40 दिन
4) 100 days
100 दिन

Correct Answer: 100 days
100 दिन

Candidate Answer: 100 days
100 दिन
Question 52.
In $\triangle ABC$, $DE \parallel BC$ such that $\frac{AD}{BD} = \frac{3}{5}$. If $AC = 5.6$ cm, then $AE$ is equal to

\[\frac{AD}{BD} = \frac{3}{5}\]

Find $AC = 5.6$ cm, so $AE$ is equal to?

Options:
1) 4.2 cm
2) 3.1 cm
3) 2.8 cm
4) 2.1 cm

Correct Answer: 2.1 cm

Candidate Answer: 2.1 cm

Question 53. If two circles touch each other internally. The greater circle has its radius as 6 cm and the distance between the centres of the circles is 2 cm. The radius of the other circle is

दो वृत्त एक-दूसरे को स्पर्श करते हैं। बड़े वृत्त की त्रिज्या 6 से.मी. है और दूसरे के केंद्र के बीच की दूरी 2 से.मी. है, तो दूसरे वृत्त की त्रिज्या कितनी है?

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

Correct Answer: 4 cm

Candidate Answer: 4 cm

Question 54. An office opens at 10 AM and closes at 5 PM. The lunch interval is 30 minutes. The ratio of lunch interval to the total period of office hours is

एक कार्यालय प्रातः 10 बजे खुलता है और साय 5 बजे बंद होता है। भोजनावकाश 30 मिनट का होता है। भोजनावकाश और कार्यकाल की कुल अवधि का अनुपात क्या है?

Options:
1) 1:7
2) 1:14
3) 7:1
4) 14:1

Correct Answer: 1:14

Candidate Answer: 1:14

Question 55. A Bookseller allowed 15% discount on the books sold. Sunil purchased books worth Rs.1500. How much will he have to pay to Bookseller.

एक पुस्तक विक्रेता ने बेची गई पुस्तकों पर 15% की छूट दी। सुनील ने र.1500 की पुस्तकें खरीदीं। पुस्तक विक्रेता को कितनी राशि का भुगतान करना होगा?

Options:
1) Rs. 1200
2) Rs.1250
3) Rs.1275
4) Rs.1300

Correct Answer: Rs.1275

Candidate Answer: Rs.1275

Question 56. If the ratio between the profit and sale price of an article is 1:5, then the ratio between the sale price and the cost price of that article is:

यदि एक वस्तु के लाभ और विक्रय मूल्य के बीच 1:5 का अनुपात है, तो उस वस्तु के विक्रय मूल्य और लागत मूल्य के बीच अनुपात क्या है?

http://thepracticetest.in/challengesystem/response_questions.php?i_id=MDM=&apppid=1a4ff78943b24af40c79d0c09bb87

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Question 57. What percent of 1 day is 36 minutes?

36 मिनट, एक दिन का कितना प्रतिशत होगा?

Options:
1) 25%
2) 2.5%
3) 3.6%
4) 0.25%
Correct Answer: 2.5%
Candidate Answer: 2.5%

Question 58.
A car covers a certain distance in 25 hrs. If it reduces the speed by \( \frac{1}{5} \) th, the car covers 200 km less in that time. The speed of the car is

एक कार 25 घंटे में तय करती है। यदि वह अपनी गति की गति \( \frac{1}{5} \) ते तेजी बढ़ा दी तो, वह 200 किमी कम कर देता। कार की गति कितनी है?

Options:
1) 60 km/hr
2) 30 km/hr
3) 40 km/hr
4) 50 km/hr
Correct Answer: 40 km/hr
Candidate Answer: 40 km/hr

Question 59. At what percent of simple interest will a sum of money double itself in 15 years?

कोई मूल राशि कितने प्रतिशत के साधारण ब्याज पर 15 वर्ष में दोगुनी हो जाएगी?

Options:
1) 6 \( \frac{1}{3} \)%
2) 6 \( \frac{2}{3} \)%
3) 6 \( \frac{1}{2} \)%
4) 6%
Correct Answer: 6 \( \frac{1}{2} \)%
Candidate Answer: 6 \( \frac{1}{2} \)%
Question 60. \[ \frac{1}{\sqrt{a}} - \frac{1}{\sqrt{b}} = 0, \text{ then the value of } \frac{1}{a} + \frac{1}{b} \text{ is:} \]

यदि \( \frac{1}{\sqrt{a}} - \frac{1}{\sqrt{b}} = 0, \) तो \( \frac{1}{a} + \frac{1}{b} \) का मान क्या है?

Options:
1) \( \frac{1}{\sqrt{ab}} \)
2) \( \sqrt{ab} \)
3) \( \frac{2}{\sqrt{ab}} \)
4) \( \frac{1}{{2}\sqrt{ab}} \)

Correct Answer: \( \frac{2}{\sqrt{ab}} \)

Candidate Answer: \( \frac{2}{\sqrt{ab}} \)

Question 61. If \( x^2 + y^2 + z^2 = 14 \) and \( xy + yz + zx = 11 \), then the value of \( (x+y+z)^2 \) is

यदि \( x^2 + y^2 + z^2 = 14 \) और \( xy + yz + zx = 11 \), तो \( (x+y+z)^2 \) का मान क्या है?

Options:
1) 16
2) 25
3) 36
4) 49

Correct Answer: 36

Candidate Answer: 36

Question 62.
If \( \sqrt{2} \tan 2\theta = \sqrt{6} \) and \( 0^\circ < \theta < 45^\circ \), then the value of \( \sin \theta + \sqrt{3} \cos \theta - 2\tan^2 \theta \) is

यदि \( \sqrt{2} \tan 2\theta = \sqrt{6} \) और \( 0^\circ < \theta < 45^\circ \), तो
\( \sin \theta + \sqrt{3}\cos \theta - 2\tan^2 \theta \) का मान क्या होगा?

Options:
1) \( \frac{2}{3} \)
2) \( \frac{4}{3} \)
3) 2
4) \( \frac{8}{3} \)

Correct Answer: \( \frac{4}{3} \)

Candidate Answer: \( \frac{4}{3} \)

Question 63. A positive number when decreased by 4, is equal to 21 times the reciprocal of this number. The number is:

एक धनात्मक संख्या से 4 कम करने पर वह उसके व्युत्क्रम की 21 गुणा के बराबर हो जाती है। वह संख्या क्या है?
Options:
1) 3
2) 7
3) 5
4) 9
Correct Answer: 7
Candidate Answer: 7

Question 64.
If \( \tan \alpha = 2 \), then the value of \( \frac{\sin \alpha}{\sin^2 \alpha + \cos^2 \alpha} \) is

यदि \( \tan \alpha = 2 \), तो \( \frac{\sin \alpha}{\sin^2 \alpha + \cos^2 \alpha} \) का मान क्या है?

Options:
1) \( \frac{2}{9} \)
2) \( \frac{\sqrt{5}}{9} \)
3) \( \frac{10}{9} \)
4) \( \frac{5\sqrt{5}}{9} \)
Correct Answer: \( \frac{10}{9} \)
Candidate Answer: \( \frac{10}{9} \)

Question 65.
If \( x = \sqrt{28}, y = \sqrt{27} \), then the value of \( x + y - \frac{1}{x^2 + xy + y^2} \) is

यदि \( x = \sqrt{28} \text{ और } y = \sqrt{27} \), तो \( x + y - \frac{1}{x^2 + xy + y^2} \) का मान क्या है?

Options:
1) 8
2) 7
3) 6
4) 5
Correct Answer: 6
Candidate Answer: 6

Question 66.
If \( x = 12 \) and \( y = 4 \), then the value of \( (x + y)^5 \) is

यदि \( x = 12 \) और \( y = 4 \), तो \( (x + y)^5 \) का मान क्या है?

Options:
1) 48
2) 1792
3) 4096
4) 5760
Correct Answer: 4096
Candidate Answer: 4096

Question 67. In a triangle PQR, PQ = PR and \( \angle Q \) is twice that of \( \angle P \). Then \( \angle Q \) is equal to

एक त्रिभुज PQR में, PQ = PR और \( \angle Q \) का दोगुना है। तो \( \angle Q \) कितने बराबर है?

Options:
1) 72°
2) 36°
3) 144°
4) 108°
Correct Answer: 72°
Candidate Answer: 72°

Question 68. If the length of a chord of a circle is 16 cm and is at a distance of 15 cm from the centre of the circle, then the radius of the circle (in cm) is:

यदि एक वृत्त के चाँदी की लंबाई 16 से.मी. है और वह वृत्त के केन्द्र से 15 से.मी. की दूरी पर है, तो वृत्त की त्रिज्या (से.मी.) में कितनी होगी?

Options:
1) 15
2) 16
3) 17
4) 34
Correct Answer: 17
Candidate Answer: 17

Question 69. On 24th May 2008 the maximum temperature of Delhi, Kolkata and Mumbai were recorded as 35°C, 33°C and 34°C respectively. What was the maximum temperature of Chennai so that the average maximum temperature of those cities would be 35°C?

24 मई 2008 को, दिल्ली, कोलकाता और मुंबई का अधिकतम तापमान क्रमशः 35°C, 33°C और 34°C दर्ज किया गया। चेन्नई का अधिकतम तापमान क्या था यदि इन बारहों का औसत अधिकतम तापमान 35°C होता?

Options:
1) 34°C
2) 35°C
3) 36°C
4) 38°C
Correct Answer: 38°C
Candidate Answer: 38°C

Question 70. The diameter of a sphere is twice the diameter of another sphere. The curved surface area of the first and the volume of the second are numerically equal. The numerical value of the radius of the first sphere is

एक गोले का व्यास दूसरे गोले के व्यास का दोगुना है। पहले का वक्रतम सतही क्षेत्र दूसरे के आयतन के संख्यात्मक कोटि से बराबर है। पहले गोले की क्षेत्रफल का संख्यात्मक मान कितना है?

Options:
1) 3
2) 24
3) 8
4) 16
Correct Answer: 24
Candidate Answer: 24

Question 71. The thread of a kite makes 60° angle with the horizontal plane. If the length of the thread be 80 m, then the vertical height of the kite will be

एक पंख का एक शृंखला क्षेत्र सतह के साथ 60° का कोण बनाता है। यदि माझे की लंबाई 80 मी. है, तो पंख की ऊँचाई कितनी होगी?

http://thepracticetest.in/challengesystem/response_questions.php?lid=MDM=&appid=1a4ff78943b24af40c79deccf09bb67

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Options:
1) \( \frac{40}{\sqrt{3}} \) m

2) \( 80\sqrt{3} \) m

3) \( 80 \) m

4) \( 40\sqrt{3} \) m

Correct Answer:
\( 40\sqrt{3} \) m

Candidate Answer:
\( 40\sqrt{3} \) m

Question 72. Study the pie chart carefully and answer the questions. The pie chart represents the percentage of people involved in various occupations. Total number of people = 20000

निम्नलिखित पाई-चार्ट में विभिन्न व्यवसायों का प्रतिशत दर्शाया गया है। पाई-चार्ट का धार्मिक अध्ययन कीजिए और प्रश्न संख्या 72 से 75 का उत्तर दीजिए। लोगों की कुल संख्या = 20000

How many more people are involved in service than in trade?

व्यापार की तुलना में सेवा में सहित लोगों की संख्या कितनी है?

Options:
1) 3660

2) 2660

3) 1660

4) 660

Correct Answer: 2660

Candidate Answer: 2660
Question 73. Study the pie chart carefully and answer the questions. The pie chart represents the percentage of people involved in various occupations. Total number of people = 20000

निम्नलिखित पाई-चार्ट में विभिन्न व्यवसायों का प्रतिशत दर्शाया गया है। पाई-चार्ट का ध्यानपूर्वक अध्ययन कीजिए और प्रश्न सं 72 से 75 का उत्तर दीजिए। लोगों की कुल संख्या = 20000

The ratio of the people involved in service to that of industry is

सेवा में सलिल लोगों और उद्योग में सलिल लोगों का अनुपात क्या है?

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

Question 74. Study the pie chart carefully and answer the questions. The pie chart represents the percentage of people involved in various occupations. Total number of people = 20000

निम्नलिखित पाई-चार्ट में विभिन्न व्यवसायों का प्रतिशत दर्शाया गया है। पाई-चार्ट का ध्यानपूर्वक अध्ययन कीजिए और प्रश्न सं 72 से 75 का उत्तर दीजिए। लोगों की कुल संख्या = 20000

The sectorial angle made by the people involved in service in the given pie-chart is

दिए गए पाई-चार्ट में सेवा में सलिल लोगों द्वारा बना विभाजन कोण कितना अंश का है?

Options:
1) 36°
2) 90°
3) 72°
4) 108°
Correct Answer: 72°
Candidate Answer: 72°
Question 75. Study the pie chart carefully and answer the questions. The pie chart represents the percentage of people involved in various occupations. Total number of people = 20000

The difference between the maximum number of people involved and minimum number of people involved in various professions is

विभिन्न व्यवसायों में संख्या लोगों की अधिकतम संख्या और न्यूनतम संख्या के बीच अंतर कितना है?

**Options:**
1) 2640
2) 3640
3) 6320
4) 5320

**Correct Answer:** 5320

**Candidate Answer:** 5320

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.

LABYRINTH

**Options:**
1) MAZE
2) PATH
3) SKYSCRAPER
4) IMPASSE

**Correct Answer:** MAZE

**Candidate Answer:** MAZE

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.

BARREN

**Options:**
1) FERTILE
2) ABUNDANT
3) HARSH
4) FALLOW

**Correct Answer:** FERTILE

**Candidate Answer:** FERTILE

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) Mysogynous
2) Misogynous
3) Mysogynous
4) Misoginous

**Correct Answer:** Mysogynous

**Candidate Answer:** Mysogynous
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.

According to scientists(A)/, there are a lot of(B)/answers about it(C)/No Error(D).

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

Correct Answer: C
Candidate Answer: B

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.

They are coming (A)/ straight to (B)/our direction(C)/No Error(D).

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

Correct Answer: B
Candidate Answer: B

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.

The building collapsed(A)/at the afternoon (B)/at about 4 o'clock (C)/No Error(D).

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

Correct Answer: B
Candidate Answer: C

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.

The police is _______ on his activities.

Options:
1) keeping an eye  
2) keeping watchful eyes  
3) keeping both eyes  
4) keeping one eye  

Correct Answer: keeping an eye
Candidate Answer: keeping an eye

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.

Are you _______ stamp collecting?

Options:
1) interested by  
2) interested in  
3) interested at  
4) interested about  

Correct Answer: interested in
Candidate Answer: interested in

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.

Your report _______ my statement.

Options:
1) conforms  
2) conforming  
3) confirms  
4) comforting  

Correct Answer: confirms
Candidate Answer: conforms
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 get cold feet

Options:
1) Drenched
2) Fear
3) Felicitate
4) Fever

Correct Answer: Fear
Candidate Answer: Fear

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.

Beside the mark

Options:
1) Perfect
2) Not to the point
3) Relevant
4) Charming

Correct Answer: Not to the point
Candidate Answer: Not to the point

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.

On tenterhooks

Options:
1) Happy and excited
2) In suspense and anxiety
3) Angry and irritated
4) Surprised and shocked

Correct Answer: In suspense and anxiety
Candidate Answer: In suspense and anxiety

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.

Property inherited from one’s father or ancestors.

Options:
1) Patrimony
2) Mercenary
3) Hereditary
4) Aristocracy

Correct Answer: Patrimony
Candidate Answer: Patrimony

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 person who is womanish in his habits

Options:
1) Feminist
2) Philognist
3) Effeminate
4) Feminine

Correct Answer: Effeminate
Candidate Answer: Feminine

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.

One who is converted from one religion to another

Options:
1) Pilgrim
2) Polytheist
3) Proselyte
4) Presbyte

Correct Answer: Proselyte
Candidate Answer: Proselyte
Question 91. A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which will improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".

Do you have some sugar?
Options:
1) any sugar
2) little sugar
3) small sugar
4) No improvement
Correct Answer: any sugar
Candidate Answer: any sugar

Question 92. A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which will improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".

Iago told to Othello about his wife
Options:
1) lay
2) laid
3) lain
4) No improvement
Correct Answer: No improvement
Candidate Answer: No improvement

Question 93. A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which will improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".

It is not possible to tell the entire story in a nutshell.
Options:
1) in a nutshell
2) in the nut
3) in a shell
4) No improvement
Correct Answer: in a nutshell
Candidate Answer: No improvement

Question 94. A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which will improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".

It is all but same to me whether I am transferred to Mumbai or Kolkata.
Options:
1) all or same
2) all the same
3) all one
4) No improvement
Correct Answer: all the same
Candidate Answer: all or same

Question 95. A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which will improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".

Despite his father’s financial assistance he was always hard on
Options:
1) hard in
2) hard up
3) hard out
4) No improvement
Correct Answer: hard up
Candidate Answer: hard out
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.

Even the majority of elders turn their homes into hives of worry as they have too little to do in too much time. Those who have retired thus find retirement tiresome when hobbies, instead, could have turned it into a period of creativity and contentment.

This common problem of inability to utilise leisure pleasurably and profitably is not restricted to Indians. In fact, Japanese are the worse sufferers. Their weekends, rather than increase their enjoyment of life, have wreaked havoc on their health and happiness. Unable to while away the long, unstructured hours, many of them have become addicts to coffee or hard liquor, and have even taken to gambling.

How has this social malady come about? Ironically, the syllabus-loaded education system is the main culprit. It places a heavy work-load on children and youth, laying emphasis as it does on memory rather than intelligence.

Why do a majority of retired elders find retirement tiresome?

**Options:**
1) Because their homes have been turned into hives of worry.
2) Because they do not have hobbies to utilise their free time.
3) Because they had nothing to do.
4) Because they had plenty of free time.

**Correct Answer:** Because they do not have hobbies to utilise their free time.

**Candidate Answer:** Because their homes have been turned into hives of worry.

Question 97.

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.

Even the majority of elders turn their homes into hives of worry as they have too little to do in too much time. Those who have retired thus find retirement tiresome when hobbies, instead, could have turned it into a period of creativity and contentment.

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How has this social malady come about? Ironically, the syllabus-loaded education system is the main culprit. It places a heavy work-load on children and youth, laying emphasis as it does on memory rather than intelligence.

How have the Japanese benefitted from their weekends?

**Options:**
1) They have increased enjoyment in life.
2) They enjoy health and happiness.
3) They use their free time to increase their enjoyment.
4) They become addicts to coffee or hard liquor and gambling.

**Correct Answer:** They become addicts to coffee or hard liquor and gambling.

**Candidate Answer:** They become addicts to coffee or hard liquor and gambling.

Question 98.

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.

Even the majority of elders turn their homes into hives of worry as they have too little to do in too much time. Those who have retired thus find retirement tiresome when hobbies, instead, could have turned it into a period of creativity and contentment.

This common problem of inability to utilise leisure pleasurably and profitably is not restricted to Indians. In fact, Japanese are the worse sufferers. Their weekends, rather than increase their enjoyment of life, have wreaked havoc on their health and happiness. Unable to while away the long, unstructured hours, many of them have become addicts to coffee or hard liquor, and have even taken to gambling.

How has this social malady come about? Ironically, the syllabus-loaded education system is the main culprit. It places a heavy work-load on children and youth, laying emphasis as it does on memory rather than intelligence.

The syllabus-loaded education system

**Options:**
1) Places a heavy burden on the youth.
2) Ensures that parents pay attention to the development of children.
3) Lays emphasis on intelligence.
4) Gives students a lot of free time.

**Correct Answer:** Places a heavy burden on the youth.

**Candidate Answer:** Places a heavy burden on the youth.

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Question 99. 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.

Even the majority of elders turn their homes into hives of worry as they have too little to do in too much time. Those who have retired thus find retirement tiresome when hobbies, instead, could have turned it into a period of creativity and contentment.

This common problem of inability to utilise leisure pleasurably and profitably is not restricted to Indians. In fact, Japanese are the worse suffers. Their weekends, rather than increase their enjoyment of life, have wreaked havoc on their health and happiness. Unable to while away the long, unstructured hours, many of them have become addicts to coffee or hard liquor, and have even taken to gambling.

How has this social malady come about? Ironically, the syllabus-loaded education system is the main culprit. It places a heavy work-load on children and youth, laying emphasis as it does on memory rather than intelligence.

The author thinks that

**Options:**
1) Authorities are more appreciative of the syllabus-loaded education system.
2) Hobbies play an important role in changing the unfortunate situation.
3) Co-curricular activities are discouraged.
4) Only Indians suffer from inability to utilise leisure.

**Correct Answer:** Hobbies play an important role in changing the unfortunate situation.

**Candidate Answer:** Co-curricular activities are discouraged.

Question 100. 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.

Even the majority of elders turn their homes into hives of worry as they have too little to do in too much time. Those who have retired thus find retirement tiresome when hobbies, instead, could have turned it into a period of creativity and contentment.

This common problem of inability to utilise leisure pleasurably and profitably is not restricted to Indians. In fact, Japanese are the worse sufferers. Their weekends, rather than increase their enjoyment of life, have wreaked havoc on their health and happiness. Unable to while away the long, unstructured hours, many of them have become addicts to coffee or hard liquor, and have even taken to gambling.

How has this social malady come about? Ironically, the syllabus-loaded education system is the main culprit. It places a heavy work-load on children and youth, laying emphasis as it does on memory rather than intelligence.

The passage tells us that

**Options:**
1) Hobbies are a waste of time
2) Hobbies play a crucial role in physical and mental development.
3) Hobbies wreak havoc on man’s health and happiness.
4) Hobbies can turn us into addicts of coffee, liquor or gambling.

**Correct Answer:** Hobbies play a crucial role in physical and mental development.

**Candidate Answer:** Hobbies play a crucial role in physical and mental development.