

Test Form No.
टेस्ट फॉर्म संख्या
682 LJ 6

EB-2013

GT -

1018029

Time Allowed : 2 Hours (For V.H. Candidates : 2 hrs. 40 Min.)

Maximum Marks : 200

निर्धारित समय : 2 घण्टे (दृष्टिबाधित उम्मीदवारों के लिए : 2 घण्टे 40 मिनट)

अधिकतम अंक: 200

Read the following instructions carefully before you begin to answer the questions.

This Booklet contains questions in English as well as in Hindi Language.

प्रश्नों के उत्तर देने से पहले निम्नलिखित अनुदेशों को ध्यान से पढ़ लें ।

इस पुस्तिका में प्रश्न अंग्रेजी तथा हिन्दी दोनों भाषा में दिये गये हैं ।

INSTRUCTIONS TO CANDIDATES	उम्मीदवारों के लिए अनुदेश
1. This Booklet contains 200 questions in all comprising the following four parts : Part-A : General Intelligence & Reasoning (50 Questions) Part-B : General Awareness (50 Questions) Part-C : Quantitative Aptitude (50 Questions) Part-D : English Comprehension (50 Questions)	1. इस पुस्तिका में कुल 200 प्रश्न हैं, जिनमें निम्नलिखित चार भाग शामिल हैं : भाग-क : सामान्य बुद्धिमत्ता एवं तर्कशक्ति (50 प्रश्न) भाग-ख : सामान्य जानकारी (50 प्रश्न) भाग-ग : परिमाणतात्मक अभिरुचि (50 प्रश्न) भाग-घ : अंग्रेजी परिज्ञान (50 प्रश्न)
2. In questions set bilingually in English and Hindi language, in case of discrepancy, the English version will prevail.	2. अंग्रेजी और हिन्दी भाषा में तैयार किए गए द्विभाषी प्रश्नों में कोई विसंगति होने की स्थिति में अंग्रेजी विवरण मान्य होगा ।
3. All questions are compulsory and carry equal marks.	3. सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं ।
4. The paper carries negative marking. 0.25 marks will be deducted for each wrong answer.	4. प्रश्न पत्र में नकारात्मक अंकन होगा । हर गलत उत्तर के लिए 0.25 अंक काटा जाएगा ।
5. Before you start to answer the questions you must check up this Booklet and ensure that it contains all the pages (1-32) and see that no page is missing or repeated. If you find any defect in this Booklet, you must get it replaced immediately.	5. प्रश्नों के उत्तर देने से पहले आप इस पुस्तिका की जाँच करके देख लें कि इसमें पूरे पृष्ठ (1-32) हैं तथा कोई पृष्ठ कम या दुबारा तो नहीं आ गया है । यदि आप इस पुस्तिका में कोई त्रुटि पायें, तो तत्काल इसके बदले दूसरी पुस्तिका ले लें ।
6. You will be supplied the Answer-Sheet separately by the Invigilator. You must complete and code the details of Name, Roll Number, Ticket Number and Test Form Number on Side-I of the Answer-Sheet carefully. You must also put your signature and Left-Hand thumb impression on the Answer-Sheet at the prescribed place before you actually start answering the questions. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark. (V.H. candidates will have to ensure that these details are filled in by the scribe. However, all V.H. candidates must put their left-hand thumb impression at the space provided in the Answer-Sheet. Those V.H. candidates who can sign should also put their signatures in addition to thumb impression.)	6. निरीक्षक द्वारा आपको उत्तर-पत्रिका अलग से दी जायेगी । उत्तर-पत्रिका के Side-I में नियमावली के अनुसार ध्यानपूर्वक अपना नाम, रोल नम्बर, टिकट नम्बर और टेस्ट फॉर्म संख्या अवश्य लिखें । प्रश्नों के उत्तर वास्तव में शुरू करने से पहले उत्तर-पत्रिका पर निर्धारित स्थान में आप अपने हस्ताक्षर एवं बायें हाथ के अंगूठे का निशान भी अवश्य लगाएँ । उपयुक्त अनुदेशों का पूरी तरह अनुपालन किया जाए, अन्यथा आपको उत्तर-पत्रिका को जाँचा नहीं जाएगा और 'शून्य' अंक दिया जाएगा । (दृष्टिबाधित उम्मीदवार सुनिश्चित करें कि यह विवरण लिपिक द्वारा भरा जाए । परन्तु सभी दृष्टिबाधित उम्मीदवार उत्तर-पत्रिका में निर्धारित स्थान पर अपने बायें हाथ के अंगूठे का निशान अवश्य लगाएँ । जो दृष्टिबाधित उम्मीदवार हस्ताक्षर कर सकते हैं, वे अंगूठे के निशान के अलावा अपने हस्ताक्षर भी कर दें ।)
7. Answers must be shown by completely blackening the corresponding ovals on Side-II of the Answer-Sheet against the relevant question number by Black/Blue Ball Point Pen only. Answers which are not shown by Black/Blue Ball-point Pen will not be awarded any mark.	7. उत्तर-पत्रिका में सभी उत्तर Side-II में प्रश्न संख्या के सामने दिये गये सम्बन्धित अण्डाकार खानों को केवल काले/नीले बॉल-पॉइंट पेन से पूरी तरह काला करके दिखाएँ । जो अण्डाकार खाने काले/नीले बॉल-पॉइंट पेन से नहीं भर जाएंगे, उनके लिए कोई अंक नहीं दिया जाएगा ।
8. A machine will read the coded information in the OMR Answer-Sheet. In case the information is incomplete/different from the information given in the application form, such candidate will be awarded 'ZERO' mark.	8. ओ.एम.आर. उत्तर-पत्रिका में भरो गई कूट सूचना को एक मशीन पढ़ेगी । यदि सूचना अपूर्ण है अथवा आवेदन प्रपत्र में दी गई सूचना से भिन्न है, तो ऐसे अभ्यर्थी को 'शून्य' अंक दिया जाएगा ।
9. The Answer-Sheet must be handed over to the Invigilator before you leave the Examination-Hall.	9. परीक्षा-भवन छोड़ने से पहले परीक्षार्थी को उत्तर-पत्रिका निरीक्षक के हवाले कर देनी चाहिए ।
10. Failure to comply with any of the above instructions will render a candidate liable to such action / penalty as may be deemed fit.	10. ऊपर के अनुदेशों में से किसी एक का भी पालन न करने पर उम्मीदवार पर विवेकानुसार कार्यवाही की जा सकती है या दण्ड दिया जा सकता है ।
11. The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 32), which you should read carefully before actually answering the questions.	11. विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पीछे (पृष्ठ संख्या 32) में छपे हुए निर्देशों में दी गई है, इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें ।
12. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.	12. प्रश्नों के उत्तर जितनी जल्दी हो सकें तथा ध्यानपूर्वक दें । कुछ प्रश्न आसान तथा कुछ कठिन हैं । किसी एक प्रश्न पर बहुत अधिक समय न लगाएँ ।
13. In lieu of Question Nos. 39 to 50 and 144 to 150, relating to figural portions, alternate questions have been provided to be attempted by V.H. candidates only.	13. आकृति से सम्बन्धित प्रश्न संख्या 39 से 50 एवं 144 से 150 के बदले में केवल दृष्टिबाधित उम्मीदवारों द्वारा हल किए जाने के लिए वैकल्पिक प्रश्न दिए गए हैं ।
14. No rough work is to be done on the Answer-Sheet. Space for rough work has been provided below the questions in Part A and Part C of this Booklet.	14. कोई रफ़ कार्य उत्तर-पत्रिका पर नहीं करना है । रफ़ कार्य के लिए स्थान भाग क और भाग ग में प्रश्नों के नीचे दिया गया है ।
15. "Mobile phones and wireless communication devices are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature."	15. "परीक्षा हॉलों/कमरों में मोबाइल फोन तथा वेतार संचार साधन पूरी तरह निषिद्ध हैं । प्रत्याशियों को उनके अपने हित में सलाह दी जाती है कि मोबाइल फोन/किसी अन्य वेतार संचार साधन को स्विच ऑफ करके भी अपने पास न रखें । इस प्रावधान का अनुपालन न करने को परीक्षा में अनुचित उपायों का प्रयोग माना जाएगा और उनके विरुद्ध कार्रवाई की जाएगी, उनकी अभ्यर्थिता रद्द कर देने सहित ।"

इस पुस्तिका की सील/पॉलीथीन बैग तब तक न खोलें जब तक कहा न जाए



EB-2013

Part – A
GENERAL INTELLIGENCE & REASONING

Direction : (Q. Nos. 1 to 6) Select the related word/letter/number from the given alternatives.

1. Natural : Artificial :: Cotton : ?
(A) Wool (B) Nylon
(C) Silk (D) Jute
2. Crime : Punishment :: Honesty : ?
(A) Award (B) Recognition
(C) Reward (D) Pride
3. VOHA : WPIB :: CJQX : ?
(A) DKRY (B) YRKD
(C) RKDY (D) YDKR
4. PRINTING : RPNIITGN ::
PROTOCOL : ?
(A) RPTOOCOL (B) RPOTCOLO
(C) PRTOOCOL (D) RPTOCOLO
5. 20 : 11 :: 102 : ?
(A) 52 (B) 49 (C) 61 (D) 96
6. 6415 : 5304 :: 7896 : ?
(A) 6705 (B) 6905
(C) 6907 (D) 6785

Direction : In Q. Nos. 7 to 11, find the odd words/numbers/letters from the given alternatives.

7. (A) Anthropology (B) Psychology
(C) Taxology (D) Sociology
8. (A) Time : Seconds
(B) Pressure : Barometer
(C) Length : Metre
(D) Volume : Litre
9. (A) 56 (B) 28 (C) 36 (D) 35
10. (A) 3 : 30 (B) 5 : 128
(C) 8 : 515 (D) 9 : 731
11. (A) APPLE (B) ANGLE
(C) ADORE (D) AMPLE
12. Number of letters skipped in between adjacent letters in the series increases by one. Which of the following series observes the rule above?
(A) CPTOV (B) HJHQV
(C) HCFKP (D) IKNRW

13. Which one of the given responses would be a meaningful order of the following?

- | | |
|-----------|---------|
| 1. Ghee | 2. Milk |
| 3. Curd | 4. Cow |
| 5. Butter | |

- (A) 5, 1, 2, 4, 3 (B) 4, 2, 5, 3, 1
(C) 4, 2, 3, 5, 1 (D) 3, 2, 5, 4, 1

14. Arrange the following words as per order in the dictionary :

- | | |
|----------------|---------------|
| 1. Concession | 2. Conception |
| 3. Conciliator | 4. Conceive |
| 5. Concerned | |

- (A) 4, 5, 3, 2, 1 (B) 4, 2, 5, 3, 1
(C) 4, 2, 5, 1, 3 (D) 4, 3, 5, 2, 1

15. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

a _ ca _ ca _ caa _

- (A) caca (B) cacc
(C) caac (D) ccca

Direction : In Question Nos. 16 to 18, choose the correct alternative from the given ones that will complete the series :

16. MNBA, OPDC, QRFE, ?

- (A) STGH (B) STKH
(C) STKJ (D) STHG

17. 512, 256, 128, ?, 32, 16, 8

- (A) 52 (B) 61 (C) 64 (D) 56

18. 30, 130, 630, ?

- (A) 1260 (B) 3130
(C) 1030 (D) 3103

19. X is four years older than Y who twice as old as Z. If the total ages of X, Y and Z be 34, how old is X?

- (A) 8 (B) 10 (C) 12 (D) 16

20. Pointing to Vinod, Radha said, "His sister is my mother's only daughter". How is Radha related to Vinod?

- (A) Cousin (B) Daughter
(C) Mother (D) Sister

SPACE FOR ROUGH WORK

21. Madhavi & Shalini are good in Dramatics and Computer Science. Anjana and Madhavi are good in Computer Science and Physics. Anjana, Purnima and Nirmala are good in Physics and History. Nirmala and Anjana are good in Physics and Maths. Purnima and Shalini are good in History and Dramatics.

Who is good in Physics, History and Dramatics?

- (A) Nirmala (B) Purnima
(C) Anjana (D) Shalini

22. From the given alternative words, select the word which can be formed using the letters of the given word :
IMMEDIATELY

- (A) DIALECT (B) LIMITED
(C) DIAMETER (D) DICTATE

23. From the given alternative words, select the word which cannot be formed using the letters of the given word :

TAMBOURINE

- (A) BROMINATE (B) OBTAINER
(C) BOATMAN (D) MINARET

24. If alphabets are serially numbered, one of the answers given below has a meaningful word hidden in it. Identify the answer.

- (A) 5, 18, 5, 8, 1, 3, 5
(B) 20, 5, 1, 3, 8, 5, 18
(C) 5, 1, 3, 5, 20, 8, 18
(D) 18, 5, 3, 8, 1, 5, 20

25. If JOSEPH is coded as FKOALD, then how GEORGE will be coded in that code language?

- (A) CADMNO (B) CAKNIT
(C) CAKNCA (D) JAKINS

26. If BUILDING is coded as 41527596 and RIVER as 85308, what will be the code for BRIDGE?

- (A) 485067 (B) 485670
(C) 458760 (D) 485760

27. Following words are written in a code language. Study them carefully and find out the word to the given code :

CAR - $\phi\alpha\delta$

SIT - $\eta\Psi\kappa$

WELL - $\sigma\iota\gamma\gamma$

MAP - $\mu\alpha\beta$

Given code : $\phi\alpha\gamma\mu$

- (A) CALL (B) CALM
(C) CART (D) CARE

28. An aeroplane covers a distance at a speed of 340 kmph in 8 hours. To cover the same distance in $2\frac{2}{3}$ hours, it must travel at what speed?

- (A) 660 km/hr (B) 700 km/hr
(C) 680 km/hr (D) 1020 km/hr

If '+' means ' \div '; '-' means '+'; ' \times ' means '-' and ' \div ' means ' \times ' then,
 $8 \div 4 - 6 + 3 \times 4 = ?$

- (A) 4 (B) 14 (C) 28 (D) 30

Direction : In Question Nos. 30 & 31, some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

30. $58 \times 12 = 4$, $37 \times 96 = 5$, $11 \times 20 = 2$,
 $42 \times 12 = ?$

- (A) 2 (B) 3 (C) 4 (D) 5

31. $33 * 11 * 3 * 6 = 115$

- (A) $+ - \times$ (B) $\times \div -$
(C) $\div \times -$ (D) $- \times \div$

Direction : In Question Nos. 32 to 34, find the missing number from the given responses.

32. $\begin{matrix} 72 & 44 & 68 \\ 91 & ? & 86 \\ 43 & 66 & 37 \end{matrix}$

- (A) 33 (B) 22 (C) 11 (D) 55

33. $\begin{matrix} 8 & 2 & 9 \\ 3 & 9 & 6 \\ 6 & 4 & 9 \\ 30 & 22 & ? \end{matrix}$

- (A) 63 (B) 24 (C) 52 (D) 12

34. $\begin{matrix} 8 & 3 & 12 \\ 2 & 3 & 6 \\ 4 & 3 & 3 \\ 4 & 3 & ? \end{matrix}$

- (A) 5 (B) 6 (C) 7 (D) 15

SPACE FOR ROUGH WORK

35. Govind starts from his house towards West. After walking a distance of 25 m he turned towards right and walked 10 m. He then turned left and moving a distance of 10 m, turned to his left again and walked 40 m. He now turns to the left and walks 5 m. Finally he turns to his left. In which direction is he walking now?

- (A) North (B) South
(C) East (D) West

36. 'A' walks 10 metres in front and 10 metres to the right. Then every time turning to his left, he walks 5, 15 and 15 metres respectively. How far is he now from his starting point?

- (A) 5 metres (B) 10 metres
(C) 20 metres (D) 25 metres

Direction : In Question Nos. 37 & 38, one/two statements are given followed by two conclusions / assumptions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions/ assumptions can definitely be drawn from the given statement. Indicate your answer.

37. **Statements I :** All cows are animals.
II : All deers are cows.

Conclusions I : All deers are animals.
II : All animals are cows.

- (A) Only conclusion I follows.
(B) Only conclusion II follows.
(C) Both conclusions I and II follow.
(D) Neither conclusion I nor II follows.

38. **Statement :** Regular reading of newspapers enhances one's general knowledge.

Assumptions I : Newspaper contain a lot of general knowledge.

II : Enhancement of general knowledge enables success in life.

- (A) Only I is implicit
(B) Only II is implicit
(C) Both I and II are implicit
(D) Neither I nor II is implicit

39. Among the four answer figures, which one can be formed from the cut out pieces given below in the question figure?

Question Figure :



Answer Figures :



- (A) (B) (C) (D)

40. Four positions of a dice are given below. Identify the number at the bottom when top is 1.



- (A) 6 (B) 3 (C) 2 (D) 5

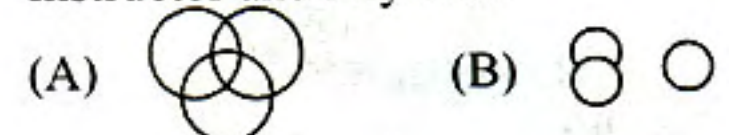
41. Find the number of triangles in the given figure :



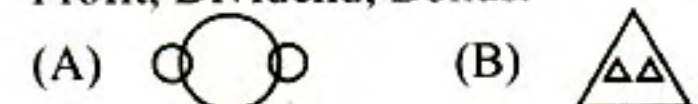
- (A) 11 (B) 14
(C) 16 (D) 22 or more

Direction : In Question Nos. 42 & 43, identify the diagram that best represents the relationship among classes given below :

42. Physician, Physical Education Instructor and Physicist

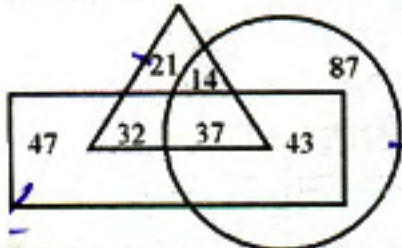


43. Profit, Dividend, Bonus.



SPACE FOR ROUGH WORK

44. In the given figure, the triangle represents Graduates, rectangle represents Married Persons and circle represents Women. What is the number of those Women who are Graduates but not Married?



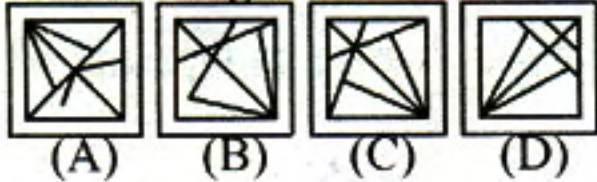
- (A) 21 (B) 14 (C) 32 (D) 37

Direction : In Question Nos. 45 & 46, which answer figure will complete the pattern in the question figure?

45. **Question Figure :**



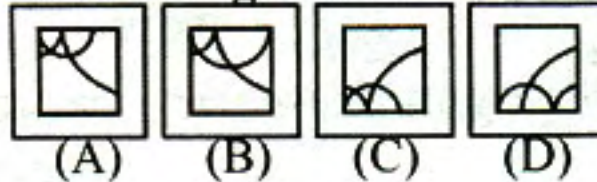
Answer Figures :



46. **Question Figure :**



Answer Figures :

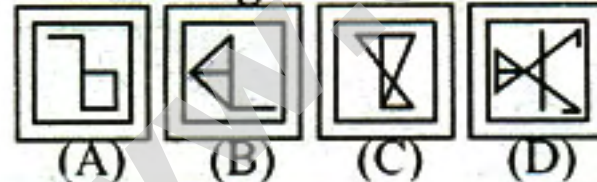


47. From the given answer figures, select the one in which the question figure is hidden/embedded.

Question Figure :



Answer Figures :



48. 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.

Question Figures :



Answer Figures :



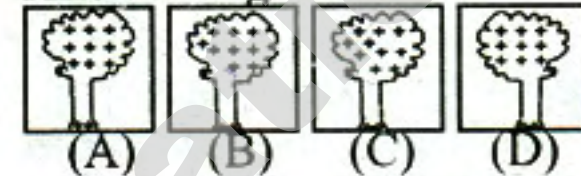
- (A) (B) (C) (D)

49. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

Question Figure :



Answer Figures :



- (A) (B) (C) (D)

50. 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. 'T' can be represented by 31, 76 etc., and 'N' can be represented by 12, 79 etc. Similarly, you have to identify the set for the word given below :

LOVE

	Matrix - I				
	0	1	2	3	4
0	G	V	E	A	C
1	R	O	N	G	L
2	M	N	E	L	I
3	O	T	I	T	A
4	N	L	N	E	P

	Matrix - II				
	5	6	7	8	9
5	R	E	O	N	G
6	N	P	V	E	L
7	M	T	I	O	N
8	E	A	I	C	O
9	N	T	A	R	L

- (A) 23, 12, 67, 68

- (B) 69, 78, 76, 86

- (C) 99, 98, 67, 68

- (D) 14, 30, 67, 68

SPACE FOR ROUGH WORK

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39. Select the related number pair from the given alternatives :
16 : 64 :: ?
(A) 5 : 16 (B) 9 : 12
(C) 64 : 512 (D) 169 : 2190
40. Select one which is different from the other three response.
(A) CDE (B) MNO
(C) PRS (D) UVW
41. Find the wrong term in the series :
364, 180, 88, 46, 19
(A) 180 (B) 46 (C) 88 (D) 19
42. Choose the set of numbers which is most like the given set.
Given set : [6, 13, 22]
(A) [6, 13, 26] (B) [10, 16, 28]
(C) [11, 18, 27] (D) [13, 19, 32]
43. If A = 1 and AID = 36, then BELL = ?
(A) 16690 (B) 2210
(C) 1440 (D) 1210
44. Six friends A, B, C, D, E and F are sitting in circle.
C is to the left to D,
F is between A and E, and
E is between F and D.
Who is sitting right of D ?
(A) C (B) E (C) B (D) F
45. Which will appear third in the dictionary sequence ?
(A) COMMERCIALISM
(B) COMMINGLE
(C) COMMISSIONAR
(D) COMMISSAR

46. How many 6's are there in the following sequence which are immediately followed by 8 but not immediately preceded by 7 ?
9, 8, 6, 8, 3, 6, 8, 9, 6, 6, 7, 9, 7, 8, 8, 6, 7, 7, 6, 8, 9, 6, 8, 8, 6, 7, 8, 9
(A) one (B) two
(C) three (D) four
47. Five friends Lalit, Feroz, Shahid, John and Manjeet are Painter, Singer, Dancer, Poet or Sculptor. Lalit and Feroz are not Sculptor or Dancer. John and Manjeet are not Poet or Painter. Shahid is neither Painter nor Dancer. Manjeet is not a Dancer. Feroz and Shahid are not Poet or Singer. Who is Poet ?
(A) Manjeet (B) Lalit
(C) Shahid (D) Feroz
48. If the average weight of 4 students is 65 kg and the weight of 3 students are 60 kg, 65 kg and 70 kg respectively, then what would be the weight of the fourth student ?
(A) 60 kg (B) 65 kg
(C) 70 kg (D) 75 kg
49. A pump runs for 1 hour and pumps 300 lit. of water. For every one hour pumping it is switched off for 10 min. For pumping 1800 lit of water, how much time will it take ?
(A) 6 hours
(B) 6 hours 30 minutes
(C) 6 hours 50 minutes
(D) 7 hours
50. Ajit ranked seventh from the top and twenty fifth from the bottom in a class. How many students are there in that class ?
(A) 32 (B) 31 (C) 35 (D) 33

SPACE FOR ROUGH WORK

Part - B
GENERAL AWARENESS

51. Wildlife Protection Act was implemented in India in
(A) 1972 (B) 1986
(C) 1964 (D) 1956
52. Which one of the following is a Sedimentary Rock ?
(A) Granite (B) Charnockite
(C) Basalt (D) Arkose
53. Highly specialized form of agriculture in which crops like coffee, tea and rubber are cultivated refer to
(A) multiple cropping
(B) plantation agriculture
(C) terrace farming
(D) extensive farming
54. International Ozone Day is celebrated on
(A) 5th September
(B) 16th September
(C) 11th September
(D) 20th September
55. In India, there are many coal fields found in
(A) Cauvery Valley
(B) Krishna Valley
(C) Ganga Valley
(D) Damodar Valley
56. The newly hatched tadpole breaths through its
(A) Lung (B) External gills
(C) Internal gills (D) All of these
57. Virus in Latin means
(A) Sweet (B) Small
(C) Fluid (D) Poison
58. The biological process in which both aerobes and anaerobes degrade organic matter is
(A) Manuring (B) Composting
(C) Digesting (D) Nitrifying
59. **Statement 1** : Complex tissue is made up of more than one type of cells.
Statement 2 : Meristems are examples of permanent tissue.
(A) Statement 1 is correct, but Statement 2 is incorrect.
(B) Statement 1 is incorrect, but Statement 2 is correct.
(C) Both Statements 1 and 2 are correct.
(D) Both Statements 1 and 2 are incorrect.
60. The cuticle is absent in
(A) Leaf (B) Stem
(C) Root (D) Fruit
61. Intercalary meristems are found in
(A) Node
(B) Lateral bud
(C) Terminal bud
(D) Inter node
62. Super conductors are substances that
(A) offer minimum resistance to flow of electric current
(B) conduct electricity at low temperature
(C) conduct electricity at high temperature
(D) offer high resistance to the flow of electric current
63. A thin oil film on a water surface appears coloured because of
(A) reflection (B) interference
(C) diffraction (D) polarization
64. A tachometer is a device used to measure
(A) gravitational pull
(B) speed of rotation
(C) surface tension
(D) dispersive power
65. When cathode rays strike a target of high atomic weight, they give rise to
(A) α -rays (B) β and γ rays
(C) X-rays (D) positive rays
66. Different computers are connected to a LAN by a cable and a
(A) modem
(B) interface card
(C) special wires
(D) telephone lines
67. Which one of the following was the top exporter company of software in 2001 in India ?
(A) Infosys (B) TCS
(C) Sun (D) Wipro
68. The major use of sulphur is in the manufacture of
(A) H_2SO_4 (B) H_2S
(C) SO_2 (D) Fungicide

69. Atoms of different elements have
 (A) same atomic number and same electronic configuration
 (B) different atomic number and same electronic configuration
 (C) different atomic number and different number of valence electrons
 (D) same number of electrons and neutrons
70. Which of the following pairs is correctly matched?
 (A) Vitamin-A : Scurvy
 (B) Vitamin-B : Rickets
 (C) Vitamin-C : Night-blindness
 (D) Vitamin-E : Reproduction
71. Organic compounds are
 (A) Covalent compounds
 (B) Ionic compounds
 (C) Co-ordination compounds
 (D) Interstitial compounds
72. Major pesticidal properties are present in
 (A) Jatropha (B) Castor
 (C) Pongamia (D) Jamun
73. The 'Greenhouse effect' is mainly due to increase in atmospheric
 (A) Ozone
 (B) Nitrogen
 (C) Sulphur dioxide
 (D) Carbon dioxide
74. Which of the following is not dealt under Section 3(3) of the Environment (Protection) Act, 1986?
 (A) The Biodiversity Authority
 (B) The Coastal Zone Management Authority
 (C) Authority set-up to monitor the State of Notified Ecologically Sensitive Areas
 (D) Protection of Plant Varieties and Farmers Right Authority
75. Which of the following statements is true?
 (A) Animals worry about raising their family.
 (B) Animals make several feeding trips in a day.
 (C) Animals often behave sensibly.
 (D) Animals do not know the meaning of brotherhood.
76. Green blocks are referred to
 (A) Green cover
 (B) Green Ministry
 (C) Bio-bricks
 (D) Pro-biotic curd
77. India celebrated its "Polio free status" during the month of
 (A) December 2013
 (B) January 2013
 (C) January 2010
 (D) February 2014
78. Telengana State is the bifurcation of
 (A) Tamil Nadu
 (B) Andhra Pradesh
 (C) Seemandhra
 (D) Odisha and Tamil Nadu
79. Which of the following is not correct?
 (A) CISF – Central Industrial Security Force
 (B) BSF – Border Security Force
 (C) UNDP – United Nation's Development Project
 (D) SIT – Special Investigation Team
80. A book entitled "The Hindus : An Alternative History" is written by
 (A) Shobha De
 (B) B.R. Ambedkar
 (C) Wendy Doniger
 (D) Salman Rushdie
81. The father of Economics is
 (A) Marshall (B) Adam Smith
 (C) J.M. Keynes (D) Karl Marx
82. Which country awards Nobel Prize?
 (A) France (B) Sweden
 (C) Switzerland (D) U.S.A.
83. The first nuclear explosion in India was conducted at
 (A) Pokhran (B) Bombay
 (C) Nellie (D) Sriharikota
84. Jawahar Rozgar Yojana was introduced in
 (A) Fifth Five Year Plan
 (B) Sixth Five Year Plan
 (C) Seventh Five Year Plan
 (D) Eighth Five Year Plan
85. The sweetmeat is referred to
 (A) Camel meat (B) Goat meat
 (C) Feta cheese (D) Petha of Agra

86. Capital market deals with
 (A) Short term fund
 (B) Long term fund
 (C) Cash
 (D) Both long and short term funds
87. The new Agricultural Strategy in India was introduced in
 (A) 1956 (B) 1966
 (C) 1976 (D) 1986
88. The sale of branded articles is common in a situation of
 (A) excess capacity
 (B) monopolistic competition
 (C) monopoly
 (D) pure competition
89. Production refers to
 (A) destruction of utility
 (B) creation of utilities
 (C) exchange value
 (D) use of a product
90. The law of diminishing returns applies to
 (A) All sectors
 (B) Industrial sector
 (C) Agricultural sector
 (D) Service sector
91. Bureaucracy literally means a system of government by _____
 (A) Elected representative
 (B) Nominated representative
 (C) Officials
 (D) Group of landlords
92. A federal government is in the shape of
 (A) Command by the Centre
 (B) Appeal from the States
 (C) Agreement between the Centre and the States
 (D) Single Party Rule
93. Parliamentary or Presidential Government can be distinguished mainly by
 (A) its federal nature
 (B) the rigidity of the Constitution
 (C) the employer-employee relations
 (D) the legislative-executive relations
94. The phrase "equality before law" used in Article-14 of Indian Constitution has been borrowed from

 (A) U.S.A. (B) Germany
 (C) Britain (D) Greece
95. Who said, 'The State exists because crime exists in society, otherwise there would be no need of a State'?
 (A) Herbert Spencer
 (B) J.S. Mill
 (C) John Locke
 (D) Tocqueville
96. The Quit India Resolution (1942) proposed the starting of a non-violent mass struggle on the widest possible scale. Who gave the mantra "Do or Die" for this struggle?
 (A) Mahatma Gandhi
 (B) Subhash Chandra Bose
 (C) Jawaharlal Nehru
 (D) Sardar Vallabhbhai Patel
97. Napoleon got finally overthrown in the Battle of Waterloo in the year
 (A) 1814 (B) 1813
 (C) 1815 (D) 1816
98. Who was the first Woman President of Indian National Congress?
 (A) Sarojini Naidu
 (B) Sucheta Kripalani
 (C) Rajkumari Amrit Kaur
 (D) Annie Besant
99. The famous Sun Temple at Konark was built by
 (A) Prataparudra
 (B) Anantavarman
 (C) Narasimha - I
 (D) Narasimha - II
100. Ashok spread Buddhism all over India and Ceylon by
 (A) Teaching the Triratnas
 (B) Sending the Dharma Mahamatras
 (C) Waging wars
 (D) Becoming a Buddhist Monk

Part - C
QUANTITATIVE APTITUDE

101. In what ratio must 25% of alcohol be mixed with 50% of alcohol to get a mixture of 40% strength alcohol?
(A) 1 : 2 (B) 2 : 1
(C) 2 : 3 (D) 3 : 2
102. Find two mean proportionals between 2 & 54.
(A) 6 & 18 (B) 6 & 12
(C) 12 & 18 (D) 6 & 9
103. A man had 7 children. When their average age was 12 years, a child aged 6 years died. The average age of remaining six children is
(A) 13 years (B) 10 years
(C) 11 years (D) 14 years
104. The average marks obtained by 22 candidates in an examination are 45. The average marks of the first 10 are 55 and those of the last eleven are 40. The number of marks obtained by the eleventh candidate is
(A) 45 (B) 0
(C) 50 (D) 47.5
105. A shop-keeper sold a sewing machine for ₹ 1,080 at a loss of 10%. At what price should he have sold it so as to gain 10% on it? (in ₹)
(A) 1,069 (B) 1,200
(C) 1,230 (D) 1,320
106. A man invested ₹ 27,000 in $12\frac{1}{2}\%$ stock at 108, then his yield percentage is
(A) $18\frac{3}{4}\%$ (B) $11\frac{31}{54}\%$
(C) 15% (D) $8\frac{1}{2}\%$
107. Sarita and Julie start walking from the same place in the opposite directions. If Julie walks at a speed of $2\frac{1}{2}$ km/hr. and Sarita at a speed of 2 km/hr., in how much time will they be 18 km apart?
(A) 4.0 hrs. (B) 4.5 hrs.
(C) 5.0 hrs. (D) 4.8 hrs.
108. Two trains, 125 metres and 115 metres in length, are running towards each other on parallel lines, one at the rate of 33 km/hr. and the other at 39 km/hr. How much time (in seconds) will they take to pass each other from the moment they meet?
(A) 8 (B) 10
(C) 12 (D) 15
109. A sum of money at compound interest will amount to ₹ 650 at the end of the first year and ₹ 676 at the end of the second year. The amount of money is
(A) ₹ 1,300 (B) ₹ 650
(C) ₹ 1,250 (D) ₹ 625
110. The simplest form of the expression $\frac{p^2 - p}{2p^3 + 6p^2} \div \frac{p^2 - 1}{p^2 + 3p} \div \frac{p^2}{p + 1}$ is
(A) $2p^2$ (B) $\frac{1}{2p^2}$
(C) $p + 3$ (D) $\frac{1}{p + 3}$
111. If $a + b + c = 4\sqrt{3}$ and $a^2 + b^2 + c^2 = 16$, then the ratio $a : b : c$ is
(A) 1 : 1 : 1 (B) $1 : \sqrt{2} : \sqrt{3}$
(C) 1 : 2 : 3 (D) None of these
112. If $x + \frac{1}{x} = 2$, then the value of $\left(x^2 + \frac{1}{x^2}\right)\left(x^3 + \frac{1}{x^3}\right)$ is
(A) 20 (B) 4
(C) 8 (D) 16
113. If a, b, c be all positive integers, then the least positive value of $a^3 + b^3 + c^3 - 3abc$ is
(A) 1 (B) 2
(C) 4 (D) 3

SPACE FOR ROUGH WORK

114. If $a + b = 1$, $c + d = 1$ and $a - b = d/c$, then the value of $c^2 - d^2$ is
 (A) a/b (B) b/a
 (C) 1 (D) -1
115. When $f(x) = 12x^3 - 13x^2 - 5x + 7$ is divided by $(3x + 2)$, then the remainder is
 (A) 2 (B) 0
 (C) -1 (D) 1
116. If $x = 3t$, $y = \frac{1}{2}(t + 1)$, then the value of t for which $x = 2y$ is
 (A) 1 (B) $1/2$
 (C) -1 (D) $2/3$
117. If $x^2 + \frac{1}{5}x + a^2$ is a perfect square, then a is
 (A) $\frac{1}{100}$ (B) $\pm \frac{1}{10}$
 (C) $\frac{1}{10}$ (D) 10
118. In a cyclic quadrilateral ABCD
 $m\angle A + m\angle B + m\angle C + m\angle D = ?$
 (A) 90° (B) 360°
 (C) 180° (D) 120°
119. In a right angle triangle, the circumcentre of the triangle lies
 (A) inside the triangle
 (B) outside the triangle
 (C) on midpoint of the hypotenuse
 (D) on one the vertex
120. If two angles of a triangle are 21° and 38° , then the triangle is
 (A) Right-angled triangle
 (B) Acute-angled triangle
 (C) Obtuse-angled triangle
 (D) Isosceles triangle
121. Angle between the internal bisectors of two angles of a triangle $\angle B$ and $\angle C$ is 120° , then $\angle A$ is
 (A) 20° (B) 30°
 (C) 60° (D) 90°
122. BE and CF are two medians of $\triangle ABC$ and G the centroid. FE cuts AG at O. If $OG = 2$ cm, then the length of AO is
 (A) 2 cm (B) 4 cm
 (C) 6 cm (D) 8 cm
123. Let ABC be an equilateral triangle and AX, BY, CZ be the altitudes. Then the right statement out of the four given responses is
 (A) $AX = BY = CZ$
 (B) $AX \neq BY = CZ$
 (C) $AX = BY \neq CZ$
 (D) $AX \neq BY \neq CZ$
124. O is the circumcentre of $\triangle ABC$, given $\angle BAC = 85^\circ$ and $\angle BCA = 55^\circ$, find $\angle OAC$.
 (A) 40° (B) 50°
 (C) 60° (D) 80°
125. The angles of a triangle are in the ratio $2 : 3 : 7$. The measure of the smallest angle is
 (A) 30° (B) 60°
 (C) 45° (D) 90°
126. If $x \sin 60^\circ \cdot \tan 30^\circ = \sec 60^\circ \cdot \cot 45^\circ$, then the value of x is
 (A) 2 (B) $2\sqrt{3}$
 (C) 4 (D) $4\sqrt{3}$
127. If $\theta = 60^\circ$, then $\frac{1}{2}\sqrt{1 + \sin \theta} + \frac{1}{2}\sqrt{1 - \sin \theta}$ is equal to
 (A) $\cot \frac{\theta}{2}$ (B) $\sec \frac{\theta}{2}$
 (C) $\sin \frac{\theta}{2}$ (D) $\cos \frac{\theta}{2}$

SPACE FOR ROUGH WORK

128. Given that
 $1^2 + 2^2 + 3^2 + \dots + 10^2 = 385$
the value of $2^2 + 4^2 + 6^2 + \dots + 20^2 =$
(A) 770 (B) 1540
(C) 1155 (D) $(385)^2$
129. The value of
 $5\frac{1}{3} \div 1\frac{2}{9} \times \frac{1}{4} \left(10 + \frac{3}{1 - \frac{1}{5}} \right)$ is
(A) 15 (B) $\frac{67}{25}$
(C) $\frac{128}{11}$ (D) $\frac{128}{99}$
130. A and B together can dig a trench in 12 days, which A alone can dig in 28 days; B alone can dig it in
(A) 20 days (B) 21 days
(C) 22 days (D) 23 days
131. A pipe can fill a cistern in 9 hours. Due to a leak in its bottom, the cistern fills up in 10 hours. If the cistern is full, in how much time will it be emptied by the leak?
(A) 70 hours (B) 80 hours
(C) 90 hours (D) 100 hours
132. A skilled, a half skilled and an unskilled labourer work for 7, 8 and 10 days respectively and they together get ₹ 369 for their work. If the ratio of their each day's work is $\frac{1}{3} : \frac{1}{4} : \frac{1}{6}$, then how much does the trained labourer get (in rupees)?
(A) 164 (B) 102.50
(C) 201.50 (D) 143.50
133. Two cubes have their volumes in the ratio 27 : 64. The ratio of their surface areas is
(A) 9 : 25 (B) 16 : 25
(C) 9 : 16 (D) 4 : 9
134. The radius of the base of a Conical tent is 12 m. The tent is 9 m high. Find the cost of canvas required to make the tent, if one square metre of canvas costs ₹ 120 (Take $\pi = 3.14$).
(A) ₹ 67,830 (B) ₹ 67,800
(C) ₹ 67,820 (D) ₹ 67,824
135. The difference between the radii of the bigger circle and smaller circle is 14 cm and the difference between their areas is 1056 cm^2 . Radius of the smaller circle is
(A) 7 cm (B) 5 cm
(C) 9 cm (D) 3 cm
136. If the discount is equal to one fifth of the marked price and the loss is half the discount, then the percentage of loss is
(A) $10\frac{1}{9}\%$ (B) $11\frac{1}{9}\%$
(C) $12\frac{1}{9}\%$ (D) $13\frac{1}{9}\%$
137. Two successive discounts of 10% and 5%, in this order, are given on a bill of ₹ 110. Find the net amount of money payable to clear the bill. (answer to the nearest rupee)
(A) ₹ 94 (B) ₹ 95
(C) ₹ 96 (D) ₹ 97
138. The true discount on ₹ 1,860 due after a certain time at 5% is ₹ 60. Find the time after which it is due.
(A) 10 months (B) 8 months
(C) 9 months (D) 1 year

SPACE FOR ROUGH WORK

139. If the sum of two angles is 135° and their difference is $\frac{\pi}{12}$, then the circular measure of the greater angle is

- (A) $\frac{2\pi}{3}$ (B) $\frac{3\pi}{5}$
 (C) $\frac{5\pi}{12}$ (D) $\frac{\pi}{3}$

140. If $\frac{2\tan^2 30^\circ}{1 - \tan^2 30^\circ} + \sec^2 45^\circ - \sec^2 0^\circ = x \sec 60^\circ$, then the value of x is

(A) 2 (B) 1
 (C) 0 (D) -1

141. If $\tan \theta = \frac{\sin \alpha - \cos \alpha}{\sin \alpha + \cos \alpha}$, then $\sin \alpha + \cos \alpha$ is

(A) $\pm \sqrt{2} \sin \theta$ (B) $\pm \sqrt{2} \cos \theta$
 (C) $\pm \frac{1}{\sqrt{2}} \sin \theta$ (D) $\pm \frac{1}{\sqrt{2}} \cos \theta$

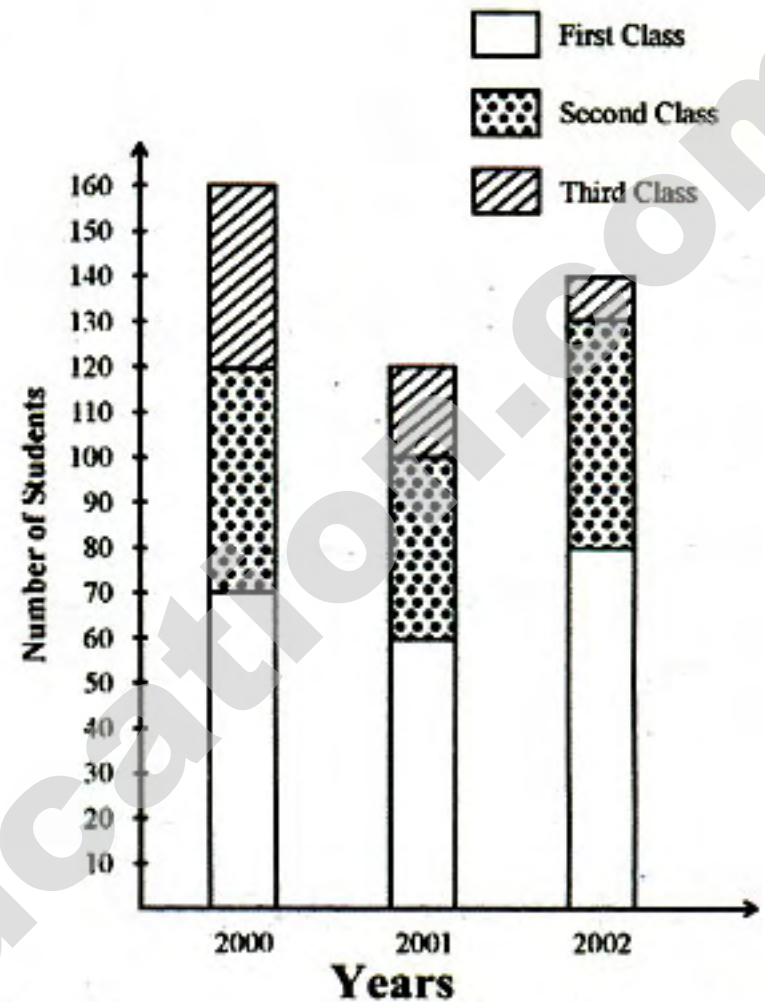
142. If $7 \sin^2 \theta + 3 \cos^2 \theta = 4$, ($0^\circ < \theta < 90^\circ$), then the value of $\tan \theta$ is

(A) $\frac{1}{\sqrt{3}}$ (B) $\frac{1}{2}$
 (C) 1 (D) $\sqrt{3}$

143. If $\tan 9^\circ = \frac{p}{q}$, then the value of $\frac{\sec^2 81^\circ}{1 + \cot^2 81^\circ}$ is

(A) $\frac{q}{p}$ (B) 1
 (C) $\frac{p^2}{q^2}$ (D) $\frac{q^2}{p^2}$

Direction : The sub divided bar diagram given below depicts the result of Class XII students of a school for three years. Study the diagram and answer the question Nos. 144 to 147 :

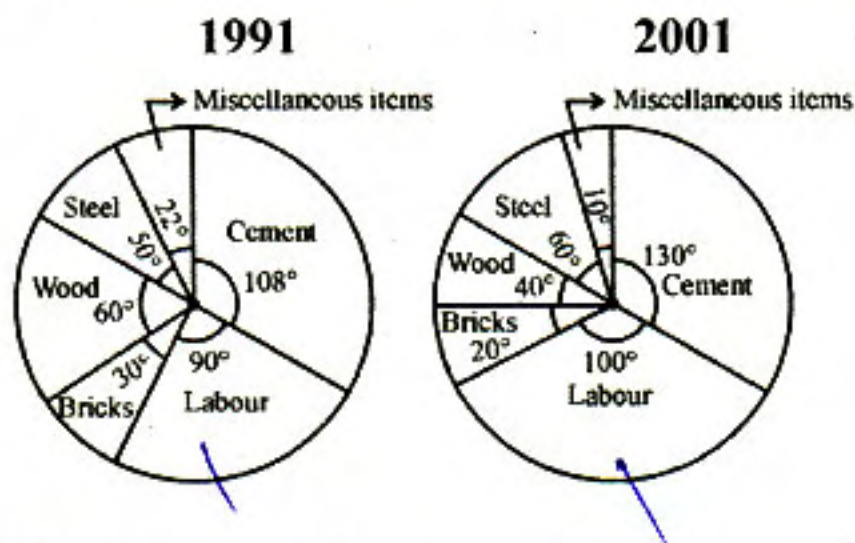


144. The percentage of students passed with Second class in the year 2000 is
 (A) $33\frac{1}{4}\%$ (B) $32\frac{1}{4}\%$
 (C) $30\frac{1}{4}\%$ (D) $31\frac{1}{4}\%$
145. The percentage of students passed with First class in the year 2001 is
 (A) 50% (B) 45%
 (C) 60% (D) 65%
146. The number of students passed with Third class in the year 2002 is
 (A) 130 (B) 10
 (C) 140 (D) 20
147. The number of students passed with Second class in the year 2002 is
 (A) 80 (B) 130
 (C) 50 (D) 100

SPACE FOR ROUGH WORK

Direction : Pie-charts showing the expenses on various heads in construction of a house.

Study the Pie-chart and answer qns. 148 to 150.



148. What percentage of the total amount is being spent on cement in 1991 ?

- (A) 18% (B) 30%
(C) 48% (D) 60%

149. The percentage increase in the amount spent on labour from 1991 to 2001, given that the total amount spent on the construction of the house is ₹ 3,60,000 in 1991 and ₹ 8,64,000 in 2001 is

- (A) $3\frac{1}{9}\%$ (B) $43\frac{1}{3}\%$
(C) $41\frac{2}{3}\%$ (D) $2\frac{2}{9}\%$

150. If the total cost of constructing the house is ₹ 3,60,000 in 1991 and ₹ 8,64,000 in 2001, what is the amount spent on Steel in 1991 and 2001 ?

- (A) ₹ 2,16,000, ₹ 4,32,000
(B) ₹ 60,000, ₹ 84,000
(C) ₹ 80,000, ₹ 2,10,000
(D) ₹ 50,000, ₹ 1,44,000

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144. The greatest number of 6 digits exactly divisible by 24, 15 and 36 is
(A) 999720 (B) 999000
(C) 999360 (D) 999780

145. If $a^4 + 4b^4 = (a^2 + b^2 + xab)(a^2 + b^2 - xab)$, then the value of x is
(A) 1 (B) 2
(C) 4 (D) 8

146. Of 11 observations, the average of first six observations is 90 and that of last six observations is 80. If the average of 11 observations is 87, find the sixth observation.
(A) 73 (B) 63
(C) 83 (D) 85

147. At what rate percent will a sum of ₹ 1,000 amount to ₹ 1,123.60 in 2 years at compound interest ?
(A) 5% (B) 6%
(C) 8% (D) 10%

148. The radius of a sphere is 'R'. If the radius of a circular cylinder is 'r', the height of which is $\frac{2}{3}$ of the diameter of the sphere and if their volumes are equal, then which of the following is true ?

- (A) $r = 2R$ (B) $r = \frac{1}{2}R$
(C) $r = R$ (D) $r = \sqrt{2}R$

149. The students in three classes are in the ratio 2 : 3 : 5. If 10 students are increased in each class, the ratio changes to 4 : 5 : 7. The total number of students in three classes before the increase was
(A) 50 (B) 60
(C) 55 (D) 45

150. A man sells an article at profit of 20%. If he had bought it at 20% less and sold it for ₹ 5 less, he would have gained 25%. The original cost price of the article is
(A) ₹ 20 (B) ₹ 25
(C) ₹ 30 (D) ₹ 35

SPACE FOR ROUGH WORK

ENGLISH COMPREHENSION

Directions : In Question Nos. 151 to 153, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

151. Barbarous
 (A) Ancient (B) Civilized
 (C) Gentle (D) Savage
152. Heighten
 (A) Widen (B) Decrease
 (C) Strengthen (D) Dissolve
153. Dubious
 (A) Shady (B) Delirious
 (C) Laconic (D) Certain

Directions : In Question Nos. 154 to 158, four alternatives are given for the Idiom/Phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Sheet.

154. To be a successful lawyer, one must know how to dot one's i's and cross one's t's.
 (A) complete one task at a time
 (B) write great letters
 (C) deal with paperwork
 (D) be detailed and exact
155. When Ramu lost the money, he was down in the dumps.
 (A) accusing others of stealing
 (B) searching everywhere (check spelling)
 (C) sad and depressed
 (D) very angry at himself
156. He turned up his nose at my offer.
 (A) was taken aback by my offer.
 (B) found it hard to believe my offer.
 (C) treated my offer with contempt.
 (D) could not accept my offer
157. There are no hard and fast rules that cannot be relaxed on such an occasion.
 (A) that is difficult to solve
 (B) that can be altered
 (C) that is very quick
 (D) that cannot be altered
158. Her father strained every nerve to enable her to get settled in life.
 (A) worked very hard
 (B) spent a huge amount
 (C) tried all tricks
 (D) bribed several persons

Directions : In Question Nos. 159 to 168, a sentence/a part of the sentence is underlined. Below are given alternatives to the underlined part at (A), (B), (C) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (D). Mark your answer in the Answer Sheet.

159. The speaker got confused, and started to contradict himself.
 (A) oppose himself
 (B) argue against
 (C) reject
 (D) No improvement
160. The number of people going abroad for vacations is ever increasing every year.
 (A) ever increasing
 (B) increasing
 (C) shooting
 (D) No improvement
161. Looking at the pictures of his old home made him nostalgic.
 (A) romantic
 (B) historical
 (C) philosophic
 (D) No improvement
162. I met him in the way.
 (A) on the way
 (B) at the way
 (C) during the way
 (D) No improvement
163. I shall appreciate if you kindly accept my proposal.
 (A) I would appreciate if
 (B) I shall appreciate it if
 (C) I would have appreciate if
 (D) No improvement
164. Rajesh is not very well these days.
 (A) in poverty
 (B) unwell
 (C) indifferent
 (D) No improvement
165. Nothing about the accident has come to her knowledge.
 (A) was learnt by her
 (B) has been known by her
 (C) is known to her
 (D) No improvement

166. Will you let me borrow some money in this hour of need ?
 (A) lend me some rupees
 (B) let me borrow a few rupees
 (C) lend me some money
 (D) No improvement
167. The autumn season of Parliament will begin on Monday.
 (A) session
 (B) cession
 (C) mission
 (D) No improvement
168. The boy said that he has read the book.
 (A) he has already read
 (B) he had read
 (C) he has finished to read
 (D) No improvement

Directions : In Question Nos. 169 to 175, out of the four alternatives, choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate oval [●] in the Answer Sheet.

169. A state where no law and order exists
 (A) Monarchy (B) Mobocracy
 (C) Anarchy (D) Democracy
170. He is my partner in crime.
 (A) Friend (B) Accomplice
 (C) Neighbour (D) Companion
171. Her speech could not be heard by those sitting in the last few rows.
 (A) Imperceptible (B) Indelible
 (C) Inaudible (D) Ineffable
172. A short trip or excursion
 (A) Rambler (B) Jaunt
 (C) Detour (D) Stroller
173. Motive or incitement to action
 (A) Remark (B) Contract
 (C) Proposition (D) Incentive
174. Science or practice of map drawing
 (A) Chirography (B) Xerography
 (C) Cartography (D) Pictography
175. A speaker's platform
 (A) Stage (B) Stand
 (C) Pulpit (D) Podium

Directions : In Question Nos. 176 and 177, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.

176. (A) Conoiseur (B) Conoisneur
 (C) Connoisseur (D) Cannoisseur
177. (A) Miscellaneous
 (B) Miscelaneous
 (C) Misscellaneous
 (D) Miscelleneous

Directions : In Question Nos. 178 to 187, you have two brief passages with 5 questions following each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval [●] in the Answer Sheet.

Passage – I

(Question Nos. 178 to 182)

Opera refers to a dramatic art form, originating in Europe, in which the emotional content is conveyed to the audience as much through music, both vocal and instrumental, as it is through the lyrics. By contrast, in musical theatre an actor's dramatic performance is primary, and the music plays a lesser role. The drama in opera is presented using the primary elements of theatre such as scenery, costumes and acting. However, the words of the opera, or libretto, are sung rather than spoken. The singers are accompanied by a musical ensemble ranging from a small instrumental ensemble to a full symphonic orchestra.

178. It is pointed out in the passage that opera
 (A) has developed under the influence of musical theatre.
 (B) is a drama that is not dependent on music.
 (C) is not a high-budget production.
 (D) is originated in Europe.

179. We can understand from the passage that

- (A) audiences are captivated more by the lyrics than by the music.
- (B) in opera lyrics are as important as the music.
- (C) orchestras in operas do not vary in size.
- (D) musical theatre relies, above all, on music.

180. It is stated in the passage that

- (A) acting and costumes are secondary to music in musical theatre.
- (B) many people find musical theatre more captivating than opera.
- (C) music in musical theatre is not as important as it is in opera.
- (D) an opera requires a huge orchestra as well as a large choir.

181. A libretto is

- (A) the main character who is the liberator at the climax of the scene.
- (B) the words of the opera.
- (C) a musical composition which is played in a slow leisurely manner.
- (D) the sequence of well controlled, graceful movements performed as a display of skill.

182. The word "conveyed" also means

- (A) transmit
- (B) tote
- (C) keep
- (D) dissuade

Passage - II

(Question Nos. 183 to 187)

These days we hear a lot about science, but scientists, the men and women who do the work and make the discoveries, seem distant and strange to us. Science often appears to be very difficult and

sometimes even magical. It is difficult of course, but we are wrong if we believe that we cannot understand it. The chief thing about the scientific method is that we get the answers to questions by making tests. The man, to take an example, who finds his bicycle tyre is flat will pump some air into it. Suppose one hour later the tyre is flat again, if the man is wise, he will first test the valve in water. If he finds air is escaping from it he will put in a new piece of valve-rubber and then pump up the tyre. All should then be well again. This man is using a simple form of scientific method.

If the man was very 'unscientific' he might say to himself that an evil spirit had caused the tyre to go flat.

183. What do people talk a lot about these days ?

- (A) science
- (B) magic
- (C) men and women
- (D) work

184. What is the common man's attitude towards scientists ?

- (A) They are wrong.
- (B) They seem distant and strange.
- (C) They are wise.
- (D) They are difficult.

185. If we use the scientific method how do we get answers to questions ?

- (A) By believing
- (B) By example
- (C) By making tests
- (D) By methods

186. If a man does not use the scientific approach, what will he attribute the flat tyre to ?

- (A) An evil spirit
- (B) The rubber valve
- (C) The bicycle
- (D) Magic

187. The antonym of believe is

- (A) reveal
- (B) disbelieve
- (C) agree
- (D) deny

Directions : In Question Nos. 188 to 192, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the oval [●] corresponding to the appropriate letter (A, B, C). If a sentence is free from error, blacken the oval corresponding to (D) in the Answer Sheet.

188. They dreamed of a society /
(A)
where everyone / were equal. /
(B) (C)
No error
(D)
189. On Senegal / it is considered impolite, /
(A) (B)
if you do not share your food. /
(C)
No error
(D)
190. We discussed about the problem
(A)
thoroughly / on the eve of the
(B)
examination / that I found it very
(C)
easy to work it out. / No error
(D)
191. The wise father told him / that the
(A)
mangoes had gone bad as they were /
(B)
in contact with the one rotten mango. /
(C)
No error
(D)
192. The box of eggs / are lying /
(A) (B)
on the table. / No error
(C) (D)

Directions : In Question Nos. 193 to 197 sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate oval [●] in the Answer Sheet.

193. James Watt _____ the steam engine.
(A) invented (B) discovered
(C) founded (D) find
194. After saying that Beverly made too many mistakes, Bob added insult to injury by saying _____.
(A) they were small mistakes
(B) she worked very slowly
(C) her work was excellent
(D) work at a remarkable pace
195. Losing that job was a blessing in disguise because she _____.
(A) get a much better job
(B) lost her house
(C) unemployed for years
(D) was able to shop
196. All teachers agree that Paresh is the _____ intelligent boy in his class.
(A) more (B) most
(C) very (D) only
197. The State is home to several destinations of _____ beauty.
(A) paralleled (B) unparalleled
(C) unequal (D) equal

Directions : In Question Nos. 198 to 200 out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

198. Tepid
(A) Hot (B) Warm
(C) Cold (D) Boiling
199. Canny
(A) Obstinate (B) Proud
(C) Stout (D) Clever
200. Humane
(A) Sympathetic (B) Spirit
(C) Straight (D) Source