

Staff Selection Commission (Southern Region)

Combined Higher Secondary Level Examination 2014

Held on: 02.11.2014 (Morning Session)

Test Form No.
टेस्ट फॉर्म संख्या
901 RG 2

AB-2014

AB - 10781639

Time Allowed : 2 Hours (For V.H. Candidates and Candidates Suffering from Cerebral palsy : 2 hrs. 40 Min.)

Maximum Marks : 200

निर्धारित समय : 2 घण्टे

(दृष्टिबाधित एवं सेरिब्रल पाल्सी 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

- This Booklet contains 200 questions in all comprising the following four parts :
Part-I : General Intelligence (50 Questions)
Part-II : English Language (50 Questions)
Part-III : Quantitative Aptitude (50 Questions)
Part-IV : General Awareness (50 Questions)
- In questions set bilingually in English and Hindi language, in case of discrepancy, the English version will prevail.
- All questions are compulsory and carry equal marks.
- The paper carries negative marking. 0.25 marks will be deducted for each wrong answer.
- 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.
- 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. / Cerebral palsy candidates will have to ensure that these details will be filled in by the scribe. However, all V.H. / Cerebral palsy candidates must put their left-hand thumb impression at the space provided in the Answer-Sheet. Those V.H. / Cerebral palsy candidates who can sign should also put their signatures in addition to thumb impression.)
- 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.
- 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.
- The Answer-Sheet must be handed over to the Invigilator before you leave the Examination-Hall.
- Failure to comply with any of the above instructions will render a candidate liable to such action / penalty as may be deemed fit.
- 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.
- 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.
- In lieu of Question Nos. 42 to 50 and 142 to 150, relating to figural portions, alternate questions have been provided to be attempted by V.H. candidates only.
- No rough work is to be done on the Answer-Sheet. Space for rough work has been provided below the questions in Part I and Part III of this Booklet.
- "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."

उम्मीदवारों के लिए अनुदेश

- इस पुस्तिका में कुल 200 प्रश्न हैं, जिनमें निम्नलिखित चार भाग शामिल हैं :
भाग-I : सामान्य बुद्धिमत्ता (50 प्रश्न)
भाग-II : अंग्रेजी भाषा (50 प्रश्न)
भाग-III : संख्यात्मक अभिरूचि (50 प्रश्न)
भाग-IV : सामान्य जानकारी (50 प्रश्न)
- अंग्रेजी और हिन्दी भाषा में तैयार किए गए द्विभाषी प्रश्नों में कोई विसंगति होने की स्थिति में अंग्रेजी विवरण मान्य होगा ।
- सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं ।
- प्रश्न पत्र में नकारात्मक अंकन होगा । हर गलत उत्तर के लिए 0.25 अंक काटा जाएगा ।
- प्रश्नों के उत्तर देने से पहले आप इस पुस्तिका की जाँच करके देख लें कि इसमें 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 ।
- निरीक्षक द्वारा आपके उत्तर-पत्रिक पर अलग से दी जायगी । 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 । उपर्युक्त अनुदेशों का पूरी तरह अनुपालन किया जाए, अन्यथा आपके उत्तर-पत्रिका को जाँचा नहीं जाएगा और 'शून्य' अंक दिया जाएगा । (दृष्टिबाधित / सेरिब्रल पाल्सी उम्मीदवार सुनिश्चित करें कि यह विवरण लिपिक द्वारा भरा जाए । परन्तु सभी दृष्टिबाधित / सेरिब्रल पाल्सी उम्मीदवार उत्तर-पत्रिका में निर्धारित स्थान पर अपने बायें हाथ के अंगूठे का निशान अवश्य लगाएँ । जो दृष्टिबाधित / सेरिब्रल पाल्सी उम्मीदवार हस्ताक्षर कर सकते हैं, वे अंगूठे के निशान के अलावा अपने हस्ताक्षर भी कर दें ।)
- 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 ।
- 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 ।
- परीक्षा-भवन छोड़ने से पहले परीक्षार्थी को उत्तर-पत्रिका निरीक्षक के हवाले कर देनी चाहिए ।
- 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 ।
- विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पीछे (पृष्ठ संख्या 32) में छपे हुए निर्देशों में दे दी गई है; इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें ।
- 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 ।
- आकृति से सम्बन्धित प्रश्न संख्या 42 से 50 एवं 142 से 150 के बदले में केवल दृष्टिबाधित उम्मीदवारों द्वारा हल किए जाने के लिए वैकल्पिक प्रश्न दिए गए हैं ।
- कोई रफ़ कार्य उत्तर-पत्रिका पर नहीं करना है । रफ़ कार्य के लिए स्थान भाग I और भाग III में प्रश्नों के नीचे दिया गया है ।
- "परीक्षा हॉल/कमरों में मोबाइल फोन तथा बेतार संचार साधन पूरी तरह निषिद्ध हैं । उम्मीदवारों को उनके अपने हित में सलाह दी जाती है कि मोबाइल फोन/किसी अन्य बेतार 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 अभ्याथिता रद्द कर देने सहित ।"

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



AB-2014

Part - I
GENERAL INTELLIGENCE

Directions : In Question Nos. 1 and 2, find the missing number from the given responses.

1. 18 20 8
 16 20 18 22 9 ?
(A) 6 (B) 7 (C) 10 (D) 11

2. 2 4 5 3
 3 3 3 6 ? 6
 1 2 1 6
(A) 5 (B) 2 (C) 3 (D) 1

3. After interchanging \div and \times , 10 and 5, which one of the following becomes a correct equation?
(A) $(30 \div 5) \times 10 = 24$
(B) $(30 \times 10) \div 5 = 60$
(C) $(30 \div 10) \times 5 = 18$
(D) $(10 \div 30) \times 5 = 70$

4. Find out the numbers that would fit in the second row and third row middle and last blank boxes respectively.

18	23	16
17	19	?
22	?	?

(A) 26, 24, 25 (B) 15, 21, 20
(C) 21, 15, 20 (D) 25, 24, 26

5. In a code language the following alphabets are coded in a particular way :

A B C D E F G H I O P R S T U
+ | || # = # # # / # v ^ < > \

Which word can be decoded from the following ?

| # + < >

(A) BOAST (B) TOAST
(C) GHOST (D) TASTE

6. Ram walks 2 km to the East, then he turns to South and walks 6 km. He again turns to East and walks 2 km. Then he turns to North and walks 12 km. How far is he from the starting point ?

(A) 7 km (B) 7.1 km
(C) 7.2 km (D) 7.3 km

7. Joel and Tom were travelling from town X to town Y which was 210 km apart. Joel set off 1 hr 15 min later than Tom but arrived 15 min earlier. If the average speed of Tom was 42 km/h, find the average speed of Joel.

(A) 50 km/h (B) 60 km/h
(C) 65 km/h (D) 70 km/h

Directions : In Question Nos. 8 & 9, two statements are given followed by four/two conclusions I, II, III & IV. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

8. **Statements :** (A) All books are trees.
(B) All trees are lions.

Conclusions : I. All books are lions.
II. All lions are books.
III. All trees are books.
IV. Some lions are books.

(A) Only II and III follow.
(B) Only I and IV follow.
(C) None of the conclusions follows.
(D) All conclusions follow.

SPACE FOR ROUGH WORK

9. **Statements :** (A) All men are employed.
 (B) No employees are professionals.
Conclusions : I. No men are unemployed.
 II. No men are professionals.
 (A) Only I follows.
 (B) Only II follows.
 (C) Neither I nor II follows.
 (D) Both I and II follow.

Directions : In Question Nos. 10 to 18, select the related letter/word/number from the given alternatives.

10. Germany : Mark :: Morocco : ?
 (A) Dollar (B) Lira
 (C) Dirham (D) Kroon
11. LJHF : USQO :: QOMK : ?
 (A) QPSR (B) PNMK
 (C) VTRP (D) YXWU
12. COUNTRY : FRXQWUB ::
 EXAMINE : ?
 (A) HAPDLQH (B) HADPLQH
 (C) HAHPLDQ (D) GBQDVWB
13. 3 : 11 :: 7 : ?
 (A) 22 (B) 29 (C) 51 (D) 18
14. 6 : 18 :: 4 : ?
 (A) 2 (B) 6 (C) 8 (D) 16
15. 7 : 56 :: 9 : ?
 (A) 63 (B) 81 (C) 90 (D) 99
16. If BAT = CBU, CAT =
 (A) DBU
 (B) BUD
 (C) DBV
 (D) None of the above
17. Red Blood Cells : Erythrocytes ::
 White Blood Cells : ?
 (A) Thrombocytes
 (B) Lymphocytes
 (C) Monocytes
 (D) Leucocytes

18. Moon : Chandrayan :: Mars : ?
 (A) Apple (B) Aryabhata
 (C) Mangalyan (D) Bhaskara

Directions : In Question Nos. 19 to 25, find the odd number/letters/number pair from the given alternatives.

19. (A) Hill Myna
 (B) House Sparrow
 (C) Emerald Dove
 (D) Imperial Eagle
20. (A) DEFY (B) HINT
 (C) MOST (D) SUVY
21. (A) JLOS (B) GHIM
 (C) HJMQ (D) PRUY
22. (A) 24 (B) 28 (C) 42 (D) 56
23. (A) 1, 2, 4, 8 (B) 2, 6, 10, 14
 (C) 3, 9, 15, 21 (D) 7, 21, 35, 49
24. (A) Appreciate (B) Admonish
 (C) Applaud (D) Admire
25. (A) Anther (B) Retina
 (C) Ovary (D) Petal
26. How many 8's followed by an even number and preceded by an odd number?
 7, 8, 5, 6, 7, 8, 4, 3, 2, 1, 3, 8, 6, 4, 3,
 7, 8, 4, 2, 1, 3, 8, 2, 8, 9
 (A) 4 (B) 3 (C) 2 (D) 5
27. Which is odd one?
 (A) BGIE (B) AGHB
 (C) DJGE (D) AGKD

Directions : In Question Nos. 28 to 30, which one of the given responses would be a meaningful order of the following?

28. 1. Crawling 2. Sitting
 3. Running 4. Standing
 5. Walking
 (A) 1 2 4 3 5 (B) 1 4 5 2 3
 (C) 1 2 4 5 3 (D) 1 4 2 5 3

SPACE FOR ROUGH WORK

29. Diagnosis, Post operational care, Operation, Discharge
 (A) Discharge, Operation, Diagnosis, Post operational care
 (B) Operation, Diagnosis, Discharge, Post operational care
 (C) Diagnosis, Operation, Post operational care, Discharge
 (D) Post operational care, Discharge, Operation, Diagnosis
30. 1. Serve 2. Vegetable
 3. Package 4. Prepare
 5. Store 6. Cut
 (A) 2, 4, 6, 5, 3, 1 (B) 6, 4, 5, 1, 3, 2
 (C) 2, 6, 4, 3, 5, 1 (D) 6, 4, 5, 1, 2, 3

Directions : In Question Nos. 31 to 34, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

31. 17, 13, 11, 7, 5, ?
 (A) 0 (B) 1 (C) 2 (D) 3
32. 4, 9, 19, 39, ?
 (A) 49 (B) 59 (C) 79 (D) 89
33. Z, U, Q, ?, L
 (A) I (B) K (C) M (D) N
34. 3, 6, 8, 16, 18, ?
 (A) 28 (B) 34 (C) 36 (D) 54

Directions : In Question Nos. 35 & 36, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

35. gfe _ ig _ eii _ fei _ gf _ ii
 (A) eifgi (B) figie
 (C) ifgie (D) ifige
36. aa _ a _ b _ abaa _
 (A) abab (B) baab
 (C) baba (D) abba

37. From the given alternatives, select the word which cannot be formed using the letters of the given word. ROTARYBLUES
 (A) STARY (B) LOTUS
 (C) TABLET (D) BUTLER
38. In a certain code, if AUDITORIUM is written as MUIROTIDUA, how will MISFORTUNE be written in that code ?
 (A) ENUTROFSIM
 (B) ENUTROMISF
 (C) TUNEROFSIM
 (D) TUNEMISFOR
39. If TODAY is coded as UQECZ, how can BEFORE be coded ?
 (A) CCBHIG (B) HIJQSG
 (C) CGGQSG (D) CPSSF
40. A bus driver wants to travel a distance of 200 km. He travels with the speed of 40 km/hr. He takes rest at 3 different hotels for 15 minutes, 30 minutes and 15 minutes respectively. He starts his journey at 9.00 a.m. At what time does he reach his final destination ?
 (A) 3.00 a.m. (B) 3.00 p.m.
 (C) 3.30 a.m. (D) 2.30 p.m.
41. Looking at the portrait of a man, Ram said, "His mother is the wife of my father's son. Brothers and sisters I have none". Whose portrait was Ram looking at ?
 (A) His grandfather
 (B) His son
 (C) His brother
 (D) His cousin

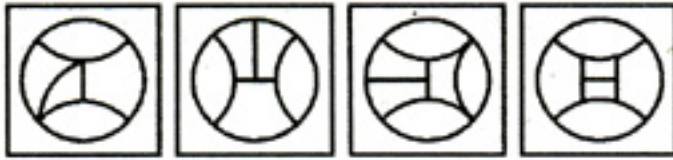
SPACE FOR ROUGH WORK

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

Question Figure :

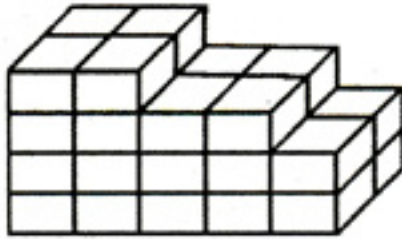


Answer Figures :



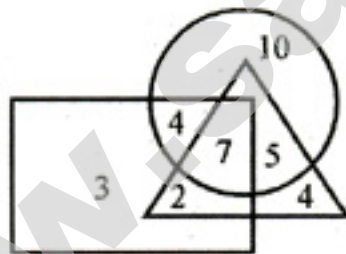
(A) (B) (C) (D)

43. Few cubes are arranged as shown in the figure. How many cubes are unseen ?



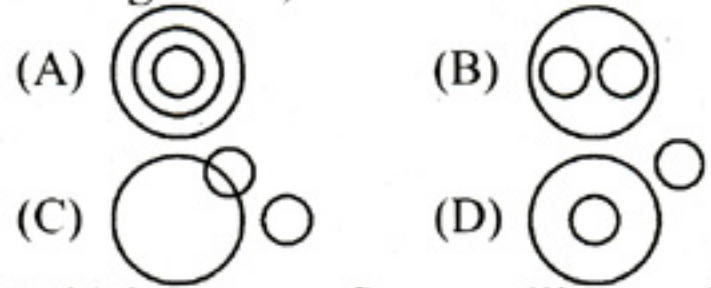
(A) 8 (B) 10 (C) 12 (D) 14

44. In the figure, circle represents business people, triangle the educated persons and the rectangle stands for persons with income more than ₹ 10,000 per month. The number standing for educated business people with income more than ₹ 10,000 per month is



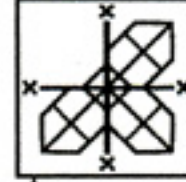
(A) 7 (B) 10 (C) 3 (D) 4

45. Which one of the following diagrams represents the correct relationship among Table, Chair and Furniture ?

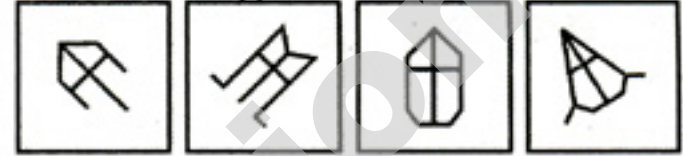


46. Which answer figure will complete the question figure ?

Question Figure :



Answer Figures :



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

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

Question Figure :



Answer Figures :



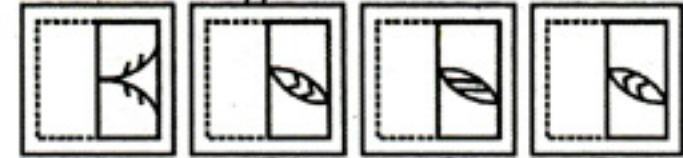
(A) (B) (C) (D)

48. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.

Question Figure :



Answer Figures :



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

SPACE FOR ROUGH WORK

49. Which of the answer figure is exactly mirror image of given figure ?

Question Figure :

654

Answer Figures :

957 420 456 654
(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., 'P' can be represented by 12, 24 etc., and 'O' can be represented by 57, 68 etc. Similarly, you have to identify the set for the word given in the question.

WARD

Matrix - I

	0	1	2	3	4
0	P	K	E	A	S
1	A	S	P	K	E
2	K	E	A	S	P
3	S	P	K	E	A
4	E	A	S	P	K

Matrix - II

	5	6	7	8	9
5	R	D	O	W	C
6	W	C	R	D	O
7	D	O	W	C	R
8	C	R	D	O	W
9	O	W	C	R	D

- (A) 58, 10, 67, 75 (B) 77, 22, 67, 88
(C) 96, 42, 79, 87 (D) 89, 34, 86, 96

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Directions : In Question Nos. 42 to 44, select the related letter/word/number from the given alternatives.

42. Frog : Amphibian :: Whale : ?
(A) Fish (B) Reptile
(C) Amphibian (D) Mammal
43. Giant : Dwarf :: Genius : ?
(A) Wicked (B) Gifted
(C) Idiot (D) Short
44. 20 : 6 :: 40 : ?
(A) 10 (B) 14 (C) 8 (D) 12

Directions : In Question Nos. 45 to 47, find the odd number/letters/number pair from the given alternatives.

45. (A) Phi (B) Gamma
(C) Delta (D) Peso
46. (A) Contact lens (B) Spectacles
(C) Microphone (D) Binoculars
47. (A) 121 : 341 (B) 183 : 392
(C) 235 : 427 (D) 289 : 501

Directions : In Question Nos. 48 to 50, find the missing term of the series from the given responses.

48. B, F, K, ?, X
(A) P (B) Q (C) R (D) S
49. 10, 18, 28, 40, 54, 70, ?
(A) 85 (B) 86 (C) 87 (D) 88
50. LMPS, VWZC, FGJM, _____
(A) MNQS (B) OPRT
(C) PQTW (D) QTWX

SPACE FOR ROUGH WORK

Part – II
ENGLISH LANGUAGE

Directions : In Question Nos. 51 to 55, 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.

51. Hitler was an absolute potentate.
(A) dictator
(B) militant
(C) ruler
(D) No improvement
52. Having completion of the course, the students left college.
(A) On completion of
(B) In order to complete
(C) Down the completion
(D) No improvement
53. Will you please give me a warm glass of water ?
(A) Will you please give me a glass of warm water ?
(B) Will you please give I a warm glass of water ?
(C) Would you please give I a warm glass of water ?
(D) No improvement
54. Boil the potatoes and then crush it until soft.
(A) smash it
(B) knead it
(C) mash it
(D) No improvement
55. They presented him a beautiful expensive designer gold pen.
(A) an expensive designer beautiful gold
(B) a beautiful gold expensive designer
(C) a designer gold beautiful expensive
(D) No improvement

Directions : In Question Nos. 56 to 60, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

56. Animals which suckle their young
(A) Herbivores (B) Mammals
(C) Carnivores (D) Omnivores
57. A drug or other substance that induces sleep
(A) Reviver (B) Stimulant
(C) Energic (D) Sedative
58. A speech delivered without any preparation
(A) Temporary (B) Exemplary
(C) Extempore (D) Contemporary
59. Animals that eat flesh
(A) Herbivorous (B) Carnivorous
(C) Omnivorous (D) Insectivorous
60. A fictitious name especially one assumed by an author
(A) Nick name (B) Pseudonym
(C) Sobriquet (D) Pet name

Directions : In Question Nos. 61 to 65, 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.

61. (A) Planeing (B) Planning
(C) Planing (D) Planinng
62. (A) Ubiquitous (B) Ubequitous
(C) Ubiquitous (D) Ubequitus
63. (A) Exenerate (B) Exonerate
(C) Exanrate (D) Exonarate

64. (A) Noticable (B) Noticeible
(C) Noticable (D) Noticeable

65. (A) Bilieve (B) Beleive
(C) Believe (D) Beleeve

Directions : In Question Nos. 66 to 75, in the following passage some of the words have been left out. Read the passage carefully and choose the correct answer to each question out of the four alternatives and fill in the blanks.

No child is 66 spoiled child by birth. It is 67 family conditions and circumstances 68 which a child grows up 69 spoiled him. It is common experience that a 70 wanted child or the only child 71 his parents is more prone to 72 spoiled. Such a child becomes arrogant and insolent 73 of the overindulgence and over-protection of the parents. Sometimes it 74 seen that a 75 child also tends to become a nuisance.

66. (A) them (B) the
(C) a (D) an

67. (A) a (B) the
(C) an (D) them

68. (A) at
(B) on
(C) over
(D) under

69. (A) those
(B) this
(C) that
(D) these

70. (A) much (B) more
(C) little (D) less

71. (A) off (B) for
(C) of (D) in

72. (A) become
(B) becoming
(C) becomes
(D) became

73. (A) so
(B) and
(C) why
(D) because

74. (A) is (B) are
(C) was (D) were

75. (A) neglect
(B) neglected
(C) neglects
(D) neglecting

Directions : In Question Nos. 76 to 80, 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 errors, blacken the oval corresponding to (D) in the Answer Sheet.

76. Paradise Lost / is / a epic poem. /
(A) (B) (C)
No error
(D)

77. After toiling very hardly /
(A)
over a long period of time /
(B)
he found that he had met no profit at all. /
(C)

No error
(D)

78. Excuse / me / interrupting you. /
(A) / (B) / (C)

No error
(D)

79. At this time of the year /
(A)
the mountains are /
(B)
usually covered with ice. / No error
(C) / (D)

80. One of my friends / are /
(A) / (B)
an I.A.S. officer. / No error
(C) / (D)

Directions : In Question Nos. 81 to 85, sentences 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.

81. This man was an accomplice _____
the thief.
(A) of (B) in
(C) with (D) from

82. The sick units are detached _____
the main group of companies.
(A) off (B) from
(C) with (D) by

83. Let me congratulate you _____ your
success.
(A) at (B) for
(C) with (D) on

84. She had always hoped that her
daughter would become _____ doctor.
(A) an
(B) the
(C) a
(D) none of the above

85. Due to heavy rains, water had
_____ in the low lying areas.
(A) gathered (B) stagnated
(C) assembled (D) entered

Directions : In Question Nos. 86 to 90, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

86. Hostile
(A) Joyful (B) Helpful
(C) Friendly (D) Violent

87. Effeminate
(A) Feminine
(B) Androgynous
(C) Soft
(D) Manly

88. Reprimanded
(A) Rebuked (B) Praised
(C) Admonished (D) Shouted

89. Equilibrium
(A) Composure (B) Imbalance
(C) Stability (D) Inequality

90. Paucity
(A) Paragon (B) Pronounce
(C) Plethora (D) Persuade

Directions : In Question Nos. 91 to 95, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

91. Quicken
(A) Accelerate (B) Delay
(C) Hinder (D) Stop

92. Transient
(A) Temporary (B) Durable
(C) Timely (D) Transparent

93. Compensate
(A) Compile
(B) Make up for
(C) Result in
(D) Complete

94. Retaliate
(A) Pardon (B) Corrupt
(C) Avenge (D) Rejoice

95. Epidemic
(A) Endemic (B) Local
(C) Widespread (D) Natural

Directions : In Question Nos. 96 to 100, 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.

96. Deepak did not care for his family, he wanted to gather roses only.
(A) to save money miserly
(B) to paint a rosy picture of the past
(C) to seek all enjoyments of life
(D) to obtain fame by hardwork

97. A close-fisted person
(A) A powerful person
(B) A miser
(C) A close friend
(D) A cowardly person

98. To feather one's nest
(A) To harbour ill feelings
(B) To build one's house
(C) To enrich oneself when opportunity occurs
(D) To get something in abundance

99. Our school is within a stone's throw of the railway station.
(A) within a certain radius
(B) very far off
(C) at a short distance
(D) within a definite distance

100. I want to tell you in a nut shell, lust for money and power ruined her life.
(A) to tell as objectively as possible
(B) confidentially
(C) in detail
(D) in a brief manner

Part – III
QUANTITATIVE APTITUDE

- 101.** Length of a side of a square inscribed in a circle is $a\sqrt{2}$ units. The circumference of the circle is
(A) $2\pi a$ units (B) πa units
(C) $4\pi a$ units (D) $\frac{2a}{\pi}$ units
- 102.** The sides of a rhombus are 10 cm each and a diagonal measures 16 cm. Area of the rhombus is
(A) 96 sq. cm. (B) 160 sq. cm.
(C) 100 sq. cm. (D) 40 sq. cm.
- 103.** The diameter of the front wheel of an engine is $2x$ cm and that of rear wheel is $2y$ cm. To cover the same distance, find the number of times the rear wheel will revolve when the front wheel revolves 'n' times.
(A) $\frac{n}{xy}$ times (B) $\frac{yn}{x}$ times
(C) $\frac{nx}{y}$ times (D) $\frac{xy}{n}$ times
- 104.** The length, breadth and height of a cuboid are in the ratio 3 : 4 : 6 and its volume is 576 cm^3 . The whole surface of the cuboid is
(A) 216 cm^2 (B) 324 cm^2
(C) 432 cm^2 (D) 460 cm^2
- 105.** The perimeter and length of a rectangle are 40 m and 12 m respectively. Its breadth will be
(A) 10 m (B) 8 m (C) 6 m (D) 3 m
- 106.** If $(x - 2)$ is a factor of $x^2 + 3Qx - 2Q$, then the value of Q is
(A) 2 (B) -2 (C) 1 (D) -1
- 107.** If $a + b = 12$, $ab = 22$, then $(a^2 + b^2)$ is equal to
(A) 188 (B) 144 (C) 34 (D) 100
- 108.** In ΔABC , two points D and E are taken on the lines AB and BC respectively in such a way that AC is parallel to DE. Then ΔABC and ΔDBE are
(A) similar only if D lies outside the line segment AB
(B) congruent only if D lies outside the line segment AB
(C) always similar
(D) always congruent
- 109.** The internal bisectors of the angles B and C of a triangle ABC meet at I. If $\angle BIC = \frac{\angle A}{2} + X$, then X is equal to
(A) 60° (B) 30° (C) 90° (D) 45°
- 110.** In a ΔABC , the medians AD, BE and CF meet at G, then which of the following is true?
(A) $AD + BE + CF > \frac{1}{2}(AB + BC + AC)$
(B) $2(AD + BE + CF) > (AB + BC + AC)$
(C) $3(AD + BE + CF) > 4(AB + BC + AC)$
(D) $4(AD + BE + CF) > 3(AB + BC + AC)$
- 111.** ST is a tangent to the circle at P and QR is a diameter of the circle. If $\angle RPT = 50^\circ$, then the value of $\angle SPQ$ is
(A) 40° (B) 60° (C) 80° (D) 100°
- 112.** If PA and PB are two tangents to a circle with centre O such that $\angle AOB = 110^\circ$, then $\angle APB$ is
(A) 90° (B) 70° (C) 60° (D) 55°

SPACE FOR ROUGH WORK

113. On simplification,

$$\left(1 - \frac{1}{2}\right)\left(1 - \frac{1}{3}\right)\left(1 - \frac{1}{4}\right) \dots \dots \dots \left(1 - \frac{1}{n}\right)$$

is equal to

- (A) $\frac{1}{n}$ (B) $\frac{2}{n}$
(C) $\frac{2(n-1)}{n}$ (D) $\frac{1}{n(n-1)}$

114. Find the sum of first five terms of the following series :

$$\frac{1}{1 \times 4} + \frac{1}{4 \times 7} + \frac{1}{7 \times 10} + \dots \dots \dots +$$

.....

- (A) $\frac{9}{32}$ (B) $\frac{7}{16}$ (C) $\frac{5}{16}$ (D) $\frac{1}{210}$

115. 5349 is added to 3957. Then 7062 is subtracted from the sum. The result is not divisible by

- (A) 4 (B) 3 (C) 7 (D) 11

116. How many men need to be employed to complete a job in 5 days, if 15 men can complete $\frac{1}{3}$ of the job in 7 days ?

- (A) 20 (B) 21 (C) 45 (D) 63

117. The product of all the prime numbers between 80 and 90 is

- (A) 83 (B) 89
(C) 7387 (D) 598347

118. The greatest number that will divide 729 and 901 leaving remainders 9 and 5 respectively, is

- (A) 15 (B) 16 (C) 19 (D) 20

119. If V_1 , V_2 and V_3 be the volumes of a right circular cone, a sphere and a right circular cylinder having the same radius and same height, then

(A) $V_1 = \frac{V_2}{2} = \frac{V_3}{3}$ (B) $\frac{V_1}{2} = \frac{V_2}{3} = V_3$

(C) $\frac{V_1}{3} = \frac{V_2}{2} = V_3$ (D) $\frac{V_1}{3} = V_2 = \frac{V_3}{2}$

120. Successive discounts of 15% and 20% amount to a single discount of

- (A) 35% (B) 32%
(C) 30% (D) 28%

121. The marked price of an article is 10% higher than the cost price. A discount of 10% is given on the marked price. In this kind of sale, the seller bears

- (A) no loss, no gain (B) a loss of 5%
(C) a gain of 1% (D) a loss of 1%

122. The ratio of the length of a school ground to its width is 5 : 2. If the width is 40 m, then the length is

- (A) 200 m (B) 100 m
(C) 50 m (D) 80 m

123. If 7 men working 7 hrs a day for each of 7 days produce 7 units of work, then the units of work produced by 5 men working 5 hrs a day for each of 5 days is

- (A) $\frac{25}{343}$ (B) $\frac{125}{49}$ (C) $\frac{49}{125}$ (D) $\frac{343}{25}$

124. In a regular polygon if one of its internal angle is greater than the external angle by 132° , then the number of sides of the polygon is

- (A) 14 (B) 12 (C) 15 (D) 16

SPACE FOR ROUGH WORK

125. A train runs from Howrah to Bandel at an average speed 20 km/hr and returns at an average speed of 30 km/hr. The average speed (in km/hr.) of the train in the whole journey is
 (A) 20 (B) 22.5 (C) 24 (D) 25
126. Salim had to sell vegetables worth ₹ 5,750 for ₹ 4,500 due to heavy rainfall. What is the loss percentage that he has incurred?
 (A) 21.74% (B) 23.47%
 (C) 20% (D) 23.45%
127. If selling price of an article is $\frac{1}{3}$ of its cost price, find gain %.
 (A) 25% (B) $33\frac{1}{3}\%$
 (C) 1.33% (D) $66\frac{2}{3}\%$
128. A class has two sections, which contain 20 and 30 students. The pass percentage of these sections are 80% and 60% respectively. The pass percentage of whole class is
 (A) 60 (B) 68 (C) 70 (D) 78
129. My grandfather was 9 times older than me 16 years ago. He will be 3 times of my age 8 years from now. Eight years ago, the ratio of my age to that of my grandfather was
 (A) 3 : 8 (B) 2 : 5
 (C) 1 : 2 (D) 1 : 5
130. A man purchased 7 bags of rice at the rate of ₹ 800 each, 8 bags of rice at ₹ 1000 each and 5 bags of rice at the rate of ₹ 1200 each. What is the average cost of one bag of rice?
 (A) ₹ 1000 (B) ₹ 980
 (C) ₹ 1120 (D) ₹ 1050
131. The amount ₹ 2,100 became ₹ 2,352 in 2 years at simple interest. If the interest rate is decreased by 1%, what is the new interest?
 (A) ₹ 210 (B) ₹ 220
 (C) ₹ 242 (D) ₹ 252
132. The value of $\frac{4x^3 - x}{(2x + 1)(6x - 3)}$ when $x = 9999$ is
 (A) 1111 (B) 2222
 (C) 3333 (D) 6666
133. If $a^3 + b^3 = 9$ and $a + b = 3$, then the value of $\frac{1}{a} + \frac{1}{b}$ is
 (A) $\frac{1}{2}$ (B) $\frac{3}{2}$ (C) $\frac{5}{2}$ (D) -1
134. If $x = \sqrt{3} - \frac{1}{\sqrt{3}}$ and $y = \sqrt{3} + \frac{1}{\sqrt{3}}$, then the value of $\frac{x^2}{y} + \frac{y^2}{x}$ is
 (A) $\sqrt{3}$ (B) $3\sqrt{3}$
 (C) $16\sqrt{3}$ (D) $2\sqrt{3}$
135. A number is first decreased by 20%. The decreased number is then increased by 20%. The resulting number is less than the original number by 20. Then the original number is
 (A) 200 (B) 400 (C) 500 (D) 600
136. A truck travels 90 km/hr for the first $\frac{1}{2}$ hours. After that it travels 70 km/hr. Find the time taken by the truck to travel 310 kilometres.
 (A) 2.5 hrs (B) 3 hrs
 (C) 3.5 hrs (D) 4 hrs

SPACE FOR ROUGH WORK

137. If $\sqrt{3} \tan \theta = 3 \sin \theta$, then the value of $(\sin^2 \theta - \cos^2 \theta)$ is
 (A) 1 (B) 3 (C) $\frac{1}{3}$ (D) none
138. If $\sin(A + B) = \sin A \cos B + \cos A \sin B$, then the value of $\sin 75^\circ$ is
 (A) $\frac{\sqrt{3} + 1}{\sqrt{2}}$ (B) $\frac{\sqrt{2} + 1}{2\sqrt{2}}$
 (C) $\frac{\sqrt{3} + 1}{2\sqrt{2}}$ (D) $\frac{\sqrt{3} + 1}{2}$
139. ABC is a right angled triangle, right angled at B and $\angle A = 60^\circ$ and $AB = 20$ cm, then the ratio of sides BC and CA is
 (A) $\sqrt{3} : 1$ (B) $1 : \sqrt{3}$
 (C) $\sqrt{3} : \sqrt{2}$ (D) $\sqrt{3} : 2$
140. If $\tan 2\theta \cdot \tan 3\theta = 1$, where $0^\circ < \theta < 90^\circ$, then the value of θ is
 (A) $22\frac{1}{2}^\circ$ (B) 18° (C) 24° (D) 30°
141. If $\cos^2 \alpha - \sin^2 \alpha = \tan^2 \beta$, then the value of $\cos^2 \beta - \sin^2 \beta$ is
 (A) $\cot^2 \alpha$ (B) $\cot^2 \beta$
 (C) $\tan^2 \alpha$ (D) $\tan^2 \beta$

Directions : Study the following table and answer the questions 142 to 145 :


Population of a locality from 1988 to 1992


Year	Men	Women	Children	Total	Increase (+) or decrease (-) over preceding year
1988	65104	60387	-	146947	-
1989	70391	62516	-	-	+ (11630)
1990	-	63143	20314	153922	-
1991	69395	-	21560	-	-(5337)
1992	71274	65935	23789	160998	-

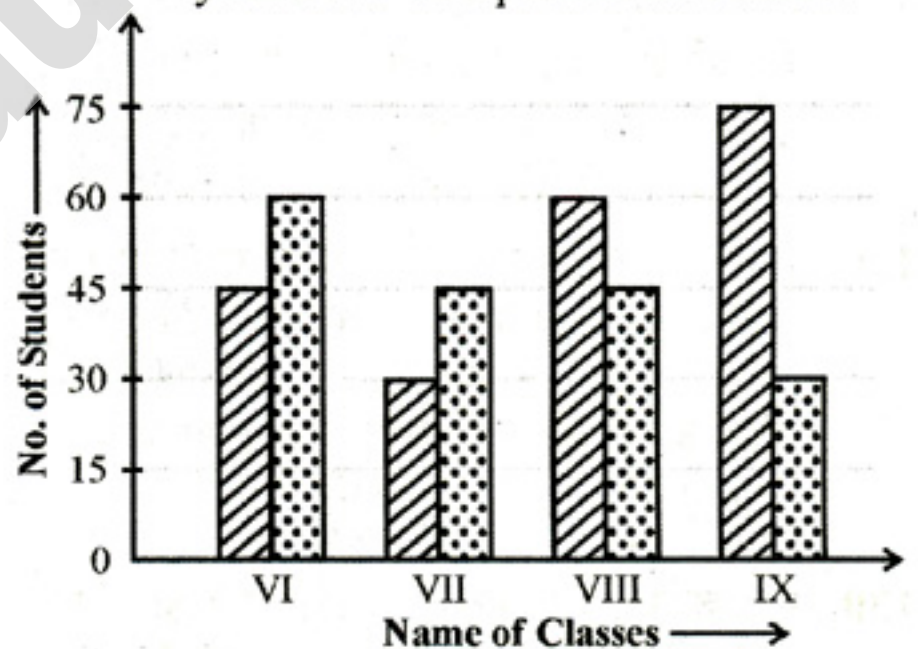
142. The number of children in 1988 is
 (A) 31236 (B) 125491
 (C) 14546 (D) 21456

143. The total population in 1989 is
 (A) 144537 (B) 158577
 (C) 146947 (D) 149637
144. Number of children in 1989 is
 (A) 25670 (B) 14040
 (C) 13970 (D) 15702
145. Number of women in 1991 is
 (A) 57630 (B) 56740
 (C) 52297 (D) 62957

Directions : Study the double bar graph given below and answer question Nos. 146 to 150 :

 : No. of students participating in the school exhibition in the year 2013 of a particular school.

 : No. of students participating in the cultural events of school in the year 2013 of a particular school.



146. The class having maximum numbers of participants in exhibition is
 (A) Class IX (B) Class VIII
 (C) Class VII (D) Class VI

SPACE FOR ROUGH WORK

147. The average of the number of students participating in cultural events is
(A) 48.75 (B) 52.5 (C) 45 (D) 50
148. The average of the number of students participating in exhibition is
(A) 48.75 (B) 52.5 (C) 45 (D) 50
149. The ratio of the participants in exhibition of class IX with the total participants of class IX is
(A) 5 : 7 (B) 5 : 14
(C) 1 : 4 (D) 3 : 5
150. The percentage of students of class VIII participating in cultural event out of total participants of cultural event is
(A) 30% (B) 25% (C) 35% (D) 40%

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142. If $a + \frac{1}{a} = 2$, then the value of $\frac{5a^2 + 5}{3a^2 + 9a + 3}$ is
(A) $\frac{2}{3}$ (B) 0 (C) $\frac{1}{3}$ (D) 1
143. If $(5x - 1)(px + 1)$ and $3p(3x - 1)$ are equal when $x = 1$, then the value of p is
(A) 2 (B) -1 (C) 0 (D) 1
144. If the sum of all internal angles and sum of all external angles of a regular polygon are equal, then the number of sides of the polygon is
(A) 7 (B) 6 (C) 5 (D) 4

145. The value of $\cos^2 20^\circ + \cos^2 70^\circ$ is
(A) 1 (B) 0 (C) 2 (D) 3

146. The value of $\frac{2 \tan 30^\circ}{1 - \tan^2 30^\circ}$
(A) $\frac{1}{\sqrt{3}}$ (B) $\frac{2}{\sqrt{3}}$
(C) $2\sqrt{3}$ (D) $\sqrt{3}$

147. What is the simplest value of $\frac{\sqrt{.0121} \times \sqrt{.0225}}{\sqrt{.09}}$?
(A) 0.50 (B) 0.55
(C) 0.055 (D) 0.05

148. Two numbers are in the ratio of 5 : 8. If 12 be added to each, then they are in the ratio of 3 : 4. The value of the first number is
(A) 20 (B) 15 (C) 10 (D) 5

149. A sum is invested at compound interest payable annually. The interest in two successive years was ₹ 900 and ₹ 981. Find the sum.
(A) ₹ 9,000 (B) ₹ 9,100
(C) ₹ 9,900 (D) ₹ 10,000

150. Mr. X was given an increment of 25% on his salary. His new salary is ₹ 6,525. What was his salary before increment?
(A) ₹ 5,200 (B) ₹ 5,000
(C) ₹ 5,002 (D) ₹ 5,220

SPACE FOR ROUGH WORK

Part – IV
GENERAL AWARENESS

- 151.** Chemical formula of washing soda is
(A) $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$
(B) NaHCO_3
(C) $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$
(D) $\text{Ca}(\text{OH})_2$
- 152.** Hydrochloric acid is also known as
(A) Galic acid (B) Picric acid
(C) Muriatic acid (D) Chloric acid
- 153.** Kanchenzunga National Park is located at
(A) Uttar Pradesh
(B) West Bengal
(C) Sikkim
(D) Jammu and Kashmir
- 154.** Biosphere Reserve of India Nanda Devi (UNESCO) is located in the State of
(A) Uttarakhand
(B) Sikkim
(C) Meghalaya
(D) Himachal Pradesh
- 155.** Environment related important International Agreement/Conference – Convention on Biological Diversity took place in 2012 at
(A) Montreal (B) Hyderabad
(C) Vienna (D) Rotterdam
- 156.** In a desert region, soil erosion can be checked by
(A) Contour ploughing
(B) Using farm manure
(C) Tree plantation/Afforestation
(D) Crop rotation
- 157.** The first oil refinery in India was set up at
(A) Barauni
(B) Vishakhapatnam
(C) Digboi
(D) Mumbai
- 158.** The inert gas used as beacon light is
(A) Kr (B) Ar
(C) He (D) Ne
- 159.** The chemical name of baking soda is
(A) Sodium carbonate
(B) Sodium bicarbonate
(C) Sodium chloride
(D) Sodium nitrate
- 160.** As an export item of India, which spice occupies the top position in value?
(A) Pepper (B) Chillies
(C) Turmeric (D) Cardamom
- 161.** The fourteen major banks in India were nationalized in the year
(A) 1967 (B) 1968
(C) 1969 (D) 1971
- 162.** One rupee notes are issued by the
(A) Reserve Bank of India
(B) State Bank of India
(C) President of India
(D) Government of India
- 163.** The name of the train “Shatabdi Express” refers to the centenary of
(A) Mahatma Gandhi
(B) Indian National Congress
(C) India’s War of Independence
(D) Jawaharlal Nehru
- 164.** Which one of the following is not a rabi crop?
(A) Mustard (B) Rice
(C) Wheat (D) Gram
- 165.** Kolkata and Delhi are connected by
(A) N.H. No. 1 (B) N.H. No. 2
(C) N.H. No. 9 (D) N.H. No. 6
- 166.** The driest part of India is
(A) Western Rajasthan
(B) Jammu and Kashmir
(C) Gujarat
(D) Madhya Pradesh
- 167.** “Mumbai High” is associated with
(A) Steel (B) Petroleum
(C) Mausoleum (D) Jute
- 168.** India switched over to the decimal currency system in
(A) 1955 (B) 1956
(C) 1957 (D) 1958

169. Which one of the following goods has only exchange value ?
 (A) Diamond (B) Television
 (C) Computer (D) Rice
170. How much of India's total geographical area is forest land ?
 (A) 20% (B) 23%
 (C) 26% (D) 28%
171. The Second Plan gave priority to
 (A) Agriculture
 (B) Services
 (C) Heavy Industries
 (D) Foreign Trade
172. The power to decide an Election Petition for the State is vested in the
 (A) Parliament
 (B) Supreme Court
 (C) High Courts
 (D) Election Commission
173. How many items are there in the Union List ?
 (A) 52 (B) 66
 (C) 97 (D) 99
174. What is the maximum gap permissible between two sessions of Parliament ?
 (A) One month
 (B) Three months
 (C) Six months
 (D) Twelve months
175. When were the Fundamental Duties incorporated in the Constitution ?
 (A) 1975 (B) 1976
 (C) 1977 (D) 1979
176. Small farmers in the country have been defined as those farmers having land holdings of
 (A) below one hectare
 (B) one to two hectare
 (C) two to three hectare
 (D) three to four hectare
177. The number of Nationalized Banks in India are
 (A) 14 (B) 21
 (C) 20 (D) 22
178. The Crimean War in 1854-1856 was fought between _____
 (A) Russia and Turkey
 (B) USA and England
 (C) Russia and Japan
 (D) England and France
179. The "Last Supper" a famous Renaissance Painting was a master piece of _____
 (A) Michael Angelo
 (B) Titian
 (C) Leonardo da Vinci
 (D) Raphael
180. Varahamihira was
 (A) An Astronaut
 (B) A Space Shuttle
 (C) A power Station
 (D) An Ancient Astronomer
181. Talking to one's own self
 (A) Sinecure
 (B) Soliloquy
 (C) Pessimist
 (D) Philanthropist
182. Rift Valley is formed
 (A) between two anticlines
 (B) between two faults
 (C) erosion of synclinal basin
 (D) due to volcanic eruption
183. Lake formed by Aswan Dam in Africa
 (A) Chad (B) Victoria
 (C) Nassar (D) Tanganyika
184. How many judges are there in Supreme Court ?
 (A) 25 (B) 26
 (C) 30 (D) 31
185. During the reign of Bindusara there was unrest at _____
 (A) Ujjayani
 (B) Pushkalavati
 (C) Takshasila
 (D) Rajagriha

186. Widening of a river valley takes place due to
 (A) Corrosion
 (B) Lateral erosion
 (C) Corrasion
 (D) Hydraulic action
187. Resin is a product of
 (A) Grapes
 (B) Coniferous trees
 (C) Rubber tree
 (D) Banyan tree
188. Water of coconut is
 (A) liquid nucellus
 (B) liquid mesocarp
 (C) liquid endocarp
 (D) degenerated liquid endosperm
189. Bulbils takes part in
 (A) Sexual reproduction
 (B) Vegetative reproduction
 (C) Food storage
 (D) Respiration
190. Fish is a first class protein as it contains
 (A) essential amino-acids
 (B) non-essential amino acids
 (C) all essential fatty acids
 (D) no amino acid
191. Stem is usually
 (A) Positively phototropic
 (B) Negatively phototropic
 (C) Negatively geotropic
 (D) Positively acrotropic
192. The word 'insolation' means
 (A) matters which insulates
 (B) incoming solar radiation
 (C) insoluble matters
 (D) none of the above
193. 'Terra rossa' is a Latin word which means
 (A) hot area
 (B) red terrain
 (C) lateritic region
 (D) region near to the poles
194. A bullet hits and gets embedded in a solid block resting on a horizontal frictionless table. Which physical quantity is conserved in this process ?
 (A) Momentum and kinetic energy
 (B) Momentum alone
 (C) Kinetic energy alone
 (D) Neither momentum nor kinetic energy
195. An instrument used to measure the density of milk is
 (A) Galactometer (B) Lactometer
 (C) Calciometer (D) Polarimeter
196. While ascending a hill, the driver of the vehicle keeps the gear ratio
 (A) equal to 1
 (B) less than 1
 (C) greater than 1
 (D) either equal to or greater than 1
197. The process of combining strings is known as
 (A) Compiling
 (B) Combining
 (C) Attaching
 (D) Concatenation
198. Which component is mainly responsible for doing calculations in computer ?
 (A) Random access memory
 (B) Control unit
 (C) Arithmetic logic unit
 (D) Hard disk
199. Bacterial cells do not have
 (A) Cell wall
 (B) Plasma membrane
 (C) Ribosome
 (D) Mitochondria
200. A wire of resistance R is cut into 'n' equal parts. These parts are then connected in parallel. The equivalent resistance of the combination will be
 (A) nR (B) $\frac{R}{n}$
 (C) $\frac{n}{R}$ (D) $\frac{R}{n^2}$