

SSC COMBINED HIGHER SECONDARY LEVEL EXAMINATION 2014

DATE OF EXAM – 9th NOVEMBER 2014

DO NOT OPEN THE POLYTHENE BAG/SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

Test Form No.
टेस्ट फॉर्म संख्या
129 TN 7

AE-2014

AE - 10632996

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 अभिरुचि (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 कटाय जाएंगे।
- 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।
- निरीक्षक द्वारा आपका उत्तर-पत्रिक अलग से दी जाएगी। उत्तर-पत्रिक 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 अंगुठ का निशान भी अवश्य लगाएँ। उपर्युक्त अनुदेशों का पुरोतह अनुपालन किया जाए, अन्यथा आपको 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 बाएँ हाथ के अंगुठ का निशान अवश्य लगाएँ। जो दृष्टिबाधित / सेरिब्रल पाल्सी उम्मीदवार हस्ताक्षर कर सकते हैं, वे अंगुठ के निशान के अलावा अपने हस्ताक्षर भी कर दें।)
- उत्तर-पत्रिका में सभी उत्तर Side-II में प्रश्न संख्या के सामने दिये गये सम्वन्धित अण्डाकार खानों को केवल काले/नीले बॉल-पॉइंट पेन से पुरी तरह काला करके दिखाएँ। जो अण्डाकार खाने काले/नीले बॉल-पॉइंट पेन से नहीं भर जाएँगे, उनके लिए कोई अंक नहीं दिया जाएगा।
- ओ.एम.आर. उत्तर-पत्रिका में भरी 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 पृष्ठ (पृष्ठ संख्या 32) में छपे हुए निदेशों में दे दी गई है, इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें।
- प्रश्नों के उत्तर जितनी जल्दी हो सके तथा ध्यानपूर्वक दें। कुछ प्रश्न आसान तथा कुछ कठिन हैं। किसी एक प्रश्न पर बहुत अधिक समय न लगाएँ।
- आकृत 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/कमरा 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 ऑफ़ 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



AE-2014

Part - I GENERAL INTELLIGENCE

Directions : In Question Nos. 1 to 7, find the odd number/letters/number pair from the given alternatives.

1. (A) GHI (B) PRS✓
(C) UVW (D) ABC
2. (A) 45, 6, 7 (B) 15, 3, 4
(C) 35, 5, 6 (D) 23, 4, 5✓
3. (A) 725 (B) 840 (C) 632✓ (D) 475
4. (A) 64 - 36 (B) 75 - 35
(C) 57 - 43 (D) 39 - 61
5. (A) Orange (B) Apple✓
(C) Lemon (D) Grapes
6. (A) NOTA (B) NATO
(C) NASA (D) NAM
7. (A) Diamond✓ (B) Gold
(C) Silver (D) Platinum
8. In the following question letters are skipped between by following a particular rule. Which of the following series observes the rule?
(A) BDFIJ (B) DGJLM
(C) BDHPF (D) ACFHJ✓
9. Which one of the given responses would be a meaningful order of the following words?
1. Type 2. Print
3. Open 4. Save
5. Close
(A) 3, 4, 1, 2, 5 (B) 3, 5, 4, 2, 1
(C) 3, 1, 4, 2, 5✓ (D) 3, 2, 1, 4, 5
10. Which one of the given responses would be a meaningful order of the following words?
1. Evaluation
2. Presentation
3. Recap
4. Aim announcement
5. Motivation
(A) 1, 2, 5, 3, 4 (B) 5, 2, 1, 4, 3
(C) 5, 4, 2, 3, 1 (D) 2, 1, 3, 4, 5✓

Directions : In Question Nos. 11 to 15, choose the correct alternative from the given ones that will complete the series.

11. 1. A, C, E 2. B, D, F
3. G, I, K 4. ?
(A) L, J, H (B) Z, Y, X
(C) H, J, L✓ (D) K, L, M
12. KKMLLNMMONNPOOQP ?
(A) PQ (B) ST
(C) QV (D) PR✓
13. 30, 24, 19, 15, 12, ?
(A) 6 (B) 8
(C) 10✓ (D) 11
14. 2, 7, 17, 32, 52, 77, ?
(A) 107✓ (B) 91
(C) 101 (D) 92
15. 30, 28, 23, 21, ?
(A) 15 (B) 16✓
(C) 18 (D) 20
16. Select the odd word :
(A) Compress (B) Condense
(C) Concise (D) Convert✓
17. Which one is different from the rest three?
(A) Polar Bear (B) Penguin
(C) Seal (D) Tiger✓
18. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
_ ab _ b _ bc _ ca _
(A) accbb (B) abcca
(C) cacab✓ (D) abacb

SPACE FOR ROUGH WORK

19. If DEVELOPMENT is written as 45853106572, how ENVELOPE can be written in that code ?
 (A) 57851305 (B) 57853105 ✓
 (C) 57835105 (D) 57850135
20. If MARCH is coded as PXUZK, what will be the code of APRIL ?
 (A) DMUFO (B) DSULO
 (C) ZKIRO (D) ZKRIO
21. If A denotes +, B denotes - and C denotes \times , then
 (10 C 4) A (4 C 4) B 6 = ?
 (A) 46 (B) 50 ✓ (C) 55 (D) 58
22. What sign should be changed to make the equation $5 + 6, 3 - 12 \times 2 = 17$ correct ?
 (A) + (B) \times
 (C) - (D) None of these ✓
23. If 10 boys walk 10 km in 10 days, then how many days it will take for 3 boys to walk 10 km ?
 (A) 1 (B) 3 (C) 6 (D) 10 ✓
24. In a zoo, there are Rabbits and Pigeons. If heads are counted, there are 200 and if legs are counted, there are 580. How many pigeons are there ?
 (A) 90 (B) 100 (C) 110 ✓ (D) 120
25. From the given alternatives, select the word which cannot be formed using the letters of the given word :
 FRAGMENT
 (A) RAGE (B) TEAR
 (C) MEAN (D) RACE ✓

26. Ram and Shyam started from a fixed place. Ram moves 3 km to the North and turns right, then walks 4 km. Shyam moves towards West and walks 5 km, then turns to right and walks 3 km. How far Ram is from Shyam ?
 (A) 13 km (B) 16 km
 (C) 9 km ✓ (D) 10 km

Directions : In Question Nos. 27 to 29, select the missing number from the given responses.

27.

5	4
20	9

3	8
24	11

9	4
?	13

 (A) 36 ✓ (B) 117 (C) 52 (D) 26

28.

9	30	21
6	?	14
12	40	28

 (A) 20 ✓ (B) 33 (C) 37 (D) 70

29.

28	4
7	11

25	5
5	10

?	3
8	11

 (A) 22 (B) 24 ✓ (C) 25 (D) 28

SPACE FOR ROUGH WORK

30. Which one is true ?
 1. All players are not tall.
 2. All basketball players are tall.
 3. All tall people are players.
 4. Some players are tall.
 (A) 4 ✓ (B) 3
 (C) 2 (D) 1
31. One Statement is given followed by two 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 assumptions can definitely be drawn from the given statement. Indicate your answer.
Statement : All the people in Kerala are literate.
Assumption I : People of Kerala are well educated and cultured.
Assumption II : People of Kerala are hard working and sincere.
 (A) Only I is implicit.
 (B) Only II is implicit.
 (C) Both I and II are implicit.
 (D) Neither I nor II is implicit.
32. A student walked out from the Classroom towards the Library. She went first to the Canteen on the left side, 24 ft away. After a cup of tea, took a right turn and went to the Laboratory 13 ft away. She then went to the Physics Block, 15 ft to the left. she talked to a friend, in the garden 3 ft on the left and continued walking in the same direction to the Library, 10 ft more. What was the actual distance between the Library and the Classroom ?
 (A) 42 ft (B) 65 ft
 (C) 39 ft (D) 34 ft

Directions : In Question Nos. 33 to 39, select the related letter/word/number from the given alternatives.

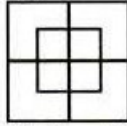
33. VZS : EAH :: ? : JFM
 (A) QSM (B) NUQ
 (C) QUN ✓ (D) QNU
34. HJLN : PRTV :: BDFH : ?
 (A) JMOR (B) JLNP ✓
 (C) KLOR (D) JKOR
35. DLOC : ECI :: TOH : ?
 (A) EET (B) EAT
 (C) AET (D) ETA
36. 42 : 20 :: 64 : ?
 (A) 31 (B) 32 (C) 40 (D) 42 ✓
37. Ravishankar : Sitar :: Bismillah Khan : ?
 (A) Sarod (B) Santoor
 (C) Shehnai (D) Flute
38. India : Mango :: New Zealand : ?
 (A) Apples (B) Kiwi ✓
 (C) Grapes (D) Bananas
39. Put the correct words in the blanks :
 Christmas : ? :: ? : Biryani
 (A) Christian, Muslim
 (B) Cashew, Rice
 (C) Jesus, Ramzan
 (D) Cake, Id-ul-Fitre ✓

Directions : In Question Nos. 40 & 41, choose the numbers similar to the group of numbers given.

40. 536, 428, 365
 (A) 358 (B) 435 (C) 624 (D) 266
41. 580, 265, 373
 (A) 366 (B) 490 (C) 428 (D) 383

SPACE FOR ROUGH WORK

42. How many rectangles are there in the given figure ?



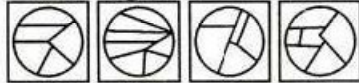
(A) 6 (B) 4 (C) 8/ (D) 10

43. From the answer figures, select the one which can be formed from the components given in the question figure.

Question Figure :



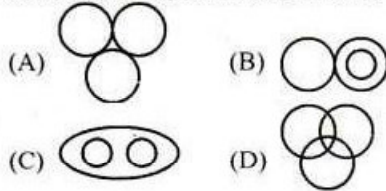
Answer Figures :



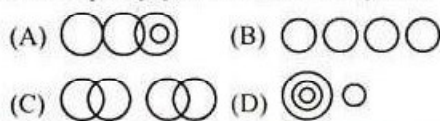
(A) (B) (C)✓ (D)

Directions : In Question Nos. 44 and 45, identify the diagram that best represents the relationship among classes given below :

44. Govt. Servants, Lecturers, Doctors

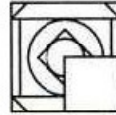


45. M.K. Gandhi, Umesh Chandra Bandhopadhyay, Jatin Das and Surya Sen

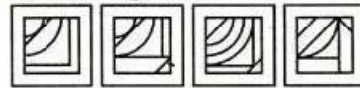


46. Which answer figure will complete the pattern in the question figure ?

Question Figure :



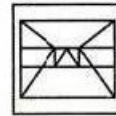
Answer Figures :



(A) (B)✓ (C) (D)

47. Which of the answer figures is embedded in the question figure ?

Question Figure :



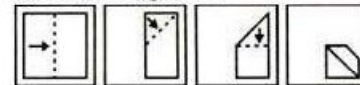
Answer Figures :



(A)✓ (B) (C) (D)

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)✓

SPACE FOR ROUGH WORK

49. Identify the alternative which resemble the mirror-image of the given word.

SECRETARY

(A) YRATEROES

(B) YRATERCES

(C) YRATERCES

(D) YRATERCES ✓

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., 'A' can be represented by 00, 11, 20 etc. and 'P' can be represented by 59, 68, 75, etc. Similarly, you have to identify the set for the word 'LOAD'.

Matrix I

	0	1	2	3	4
0	A	B	C	D	E
1	B	A	E	D	C
2	A	C	D	B	E
3	E	A	D	C	B
4	C	E	A	D	B

Matrix II

	5	6	7	8	9
5	L	M	N	O	P
6	M	L	N	P	O
7	P	L	M	N	O
8	P	O	M	N	L
9	O	M	P	L	N

(A) 55, 42, 86, 03

(B) 66, 40, 31, 13

(C) 89, 86, 11, 99

(D) 76, 95, 20, 32 ✓

FOR VISUALLY HANDICAPPED CANDIDATES ONLY

Directions : In Question Nos. 42 and 43, select the related word/number from the given alternatives.

42. $12 : 7 :: 16 : ?$
(A) 10 (B) 9 (C) 7 (D) 8
43. Monsoon : Flood :: Summer : ?
(A) Rain (B) Hot
(C) Drought (D) Cold

Directions : In Question Nos. 44 to 48, find the odd number/letters/number pair from the given alternatives.

44. (A) 2 : 20 (B) 4 : 50
(C) 3 : 30 (D) 1 : 10
45. (A) 399 (B) 448
(C) 449 (D) 497
46. (A) 1473 (B) 7134
(C) 3472 (D) 7413
47. (A) 2 - 7 (B) 4 - 5
(C) 6 - 3 (D) 8 - 2
48. (A) 5 - 26 (B) 8 - 65
(C) 6 - 36 (D) 9 - 82
49. Choose the correct alternative from the given ones that will complete the series.
E, J, O, ?, Y
(A) T (B) L (C) Q (D) A

50. If $2 * 8 * 1 = 81$
 $3 * 2 * 1 = 27$
then $4 * 1 * 4 = ?$
(A) 225 (B) 125
(C) 625 (D) 64

SPACE FOR ROUGH WORK

Part – II
ENGLISH LANGUAGE

Directions : In Question Nos. 51 to 55, 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.

51. The students are told to _____ these words in the dictionary.
(A) look down (B) look up ✓
(C) look into (D) look after
52. Rama took his _____ for the wrong done to him.
(A) avenge (B) vengeance
(C) revenge (D) ravage
53. Students are not prepared _____ that kind of question.
(A) to (B) with
(C) for ✓ (D) on
54. Communism and Socialism have always _____ the sermons of economic equality.
(A) said ✓ (B) instructed
(C) preached (D) obeyed
55. Robert _____ Ali of his support.
(A) assure (B) ensured
(C) insured (D) assured

Directions : In Question Nos. 56 to 60, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

56. Sham
(A) Real
(B) Genuine
(C) Authentic
(D) Fake
57. Arduous
(A) Troublesome
(B) Gloomy
(C) Difficult
(D) Perilous
58. Jealous
(A) Interested
(B) Hatred ✓
(C) Envied
(D) Admired
59. Guile
(A) Cunning
(B) Careful
(C) Careless
(D) Greedy
60. Futility
(A) Uselessness
(B) Insignificance
(C) Irrelevance
(D) Unimportance

Directions : In Question Nos. 61 to 65, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

61. Profuse
(A) Sparse
(B) Miserly
(C) Brief
(D) Immoderate
62. Mitigate
(A) Appease
(B) Enhance
(C) Allay
(D) Relieve
63. Prudent
(A) Dunce
(B) Silly
(C) Foolish
(D) Careless
64. Traditional
(A) Avant-garde
(B) Present
(C) Unusual
(D) Fresh
65. Turbulent
(A) Harmony
(B) Gusty
(C) Calm
(D) Windy

Directions : In Question Nos. 66 to 70, 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.

66. The boy was in Dutch with his friends.
(A) in love
(B) in good terms
(C) in awe
(D) in trouble
67. Their attempt to get back the stolen necklace became a wild goose chase.
(A) wise decision
(B) useless search
(C) timely action ✓
(D) delayed action
68. The departmental store is open around the clock.
(A) at different timings
(B) early morning
(C) day and night ✓
(D) throughout the afternoon
69. Through the reporter's efforts, many unknown facts have come to light.
(A) ignited
(B) flared up ✓
(C) brightened
(D) been revealed
70. I do not see eye to eye with you in this matter.
(A) to give a correct decision ✓
(B) to obtain suitable punishment
(C) to have the same eyesight
(D) to have the same opinion

Directions : In Question Nos. 71 to 75, 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.

71. It is quite tough to declare which candidate will win the presidential election.
(A) predict ✓
(B) augur
(C) portend
(D) No improvement
72. Transcoding has one of the items in the new syllabus.
(A) is one of the items ✓
(B) has one of the item
(C) is one of the item
(D) No improvement
73. She does not tell lies, doesn't she ?
(A) isn't she ? ✓
(B) does she ?
(C) didn't she ?
(D) No improvement
74. Have you ever been in New York ?
(A) at ✓
(B) to
(C) with
(D) No improvement
75. Wave after wave surrounded the tower.
(A) engulfed
(B) circled
(C) encircled ✓
(D) No improvement

Directions : In Question Nos. 76 to 80, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

76. Accidental good fortune
(A) Serendipity (B) Good luck
(C) Chance ✓ (D) Fluke
77. Short speech or poem given at the end of a play or a book
(A) Epilogue (B) Epigram
(C) Epitaph (D) Epicure
78. A person who drive our motor cars
(A) Driver ✓ (B) Chauffeur
(C) Conductor (D) Lift-operator
79. The headmaster brought back to mind the outstanding achievements of the school.
(A) remembered ✓ (B) reminded
(C) reminisced (D) recalled
80. Lack of feeling
(A) Empathy (B) Apathy
(C) Sympathy (D) Pity

Directions : In Question Nos. 81 to 85, 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.

81. (A) Acoustics (B) Accoustics
(C) Acusticts (D) Accuoustics
82. (A) Repertoire (B) Repartoire
(C) Repertwah (D) Repertiore
83. (A) Necesary (B) Neccesarry
(C) Necesarry (D) Necessary ✓
84. (A) Narsicissism (B) Narcicicism
(C) Narcissism (D) Narcisism ✓
85. (A) Seige (B) Pharoah
(C) Laison (D) Portuguese ✓

Directions : In Question Nos. 86 to 95, 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.

The other day I visited a refugee 86 where the victims 87 the Gujarat Earthquake 88 in very 89 conditions. I was particularly 90 by an old woman who was determined to give 91 grandchildren a better future. She 92 a strong and 93 woman who even after the 94 of her own children undertook such a journey through life and never felt weak or broken but was an 95 for all.

86. (A) house (B) camp
(C) home ✓ (D) nest
87. (A) of ✓ (B) to
(C) in (D) at
88. (A) was living (B) are living
(C) were living ✓ (D) have lived
89. (A) apathetic ✓ (B) sympathetic
(C) pathetic (D) empathetic
90. (A) cornered (B) collected
(C) worked (D) moved ✓
91. (A) his (B) her ✓
(C) its (D) their
92. (A) were (B) had
(C) was ✓ (D) is
93. (A) courageous ✓ (B) continuous
(C) ruinous (D) careful
94. (A) life (B) death ✓
(C) motionless (D) captivated
95. (A) happiness (B) determination
(C) motivation (D) inspiration ✓

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Directions : In Question Nos. 96 to 100, 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.

96. Most of my friends /
(A)
heard the earthquake /
(B)
but I was totally unaware of it. / No error
(C) (D)
97. He walks / as if the earth /
(A) (B)
belonged to him. / No error
(C) (D)
98. The United Nations / enquired for /
(A) (B)
a cease fire. / No error
(C) (D)
99. Ghana, Nigeria and Gambia, /
(A)
each have parts to play / in the
(B)
development of Africa. / No error
(C) (D)
100. In these days of inflation / a ten
(A)
rupees note will not buy you /
(B)
even an ordinary meal. / No error
(C) (D)

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AE-2014

Part – III QUANTITATIVE APTITUDE

101. A double bed is marked at ₹ 7,500. The shopkeeper allows successive discounts of 8%, 5% and 2% on it. What is the Net selling price ?
(A) ₹ 6,500 (B) ₹ 6,000
(C) ₹ 6,423.90 ✓ (D) ₹ 6,500.50
102. X purchased an item at a discount of 10% and sold it to Y at 10% profit. The marked price and the price for which Y purchased the item are in ratio.
(A) 1 : 1 ✓ (B) 10 : 99
(C) 20 : 99 (D) 100 : 99
103. A man engaged a servant on the condition that he would pay him ₹ 90 and a turban after service of one year. He served only for nine months and received the turban and an amount of ₹ 65. The price of turban is
(A) ₹ 25 (B) ₹ 18.75
(C) ₹ 10 (D) ₹ 2.50 ✓
104. If diagonals of a rhombus are 24 cm and 32 cm, then perimeter of that rhombus is
(A) 80 cm (B) 84 cm
(C) 76 cm (D) 72 cm
105. The inradius of an equilateral triangle is $\sqrt{3}$ cm, then the perimeter of that triangle is
(A) 18 cm (B) 15 cm
(C) 12 cm (D) 6 cm
106. The average marks secured by 36 students was 52. But it was discovered that an item 64 was misread as 46. What is the correct mean of marks ?
(A) 54 (B) 53.5 ✓ (C) 53 (D) 52.5
107. A shoe company sold 50 pairs of shoes on a day costing ₹ 189.50 each for ₹ 10,000. Then the profit obtained in ₹ is
(A) 522 (B) 525 ✓ (C) 573 (D) 612
108. Kamala bought a bicycle for ₹ 1,650. She had to sell it at a loss of 8%. She sold it for
(A) ₹ 1,581 (B) ₹ 1,518 ✓
(C) ₹ 1,510 (D) ₹ 1,508
109. A got twice as many marks in English as in Science. His total marks in English, Science and Mathematics is 180. If the ratio of his marks in English and Mathematics is 2 : 3, what is his marks in Science ?
(A) 20 ✓ (B) 60 (C) 30 ✓ (D) 40
110. Tom is chasing Jerry. In the same interval of time Tom jumps 8 times while Jerry jumps 6 times. But the distance covered by Tom in 7 jumps is equal to the distance covered by Jerry in 5 jumps. The ratio of speed of Tom and Jerry is
(A) 48 : 35 (B) 28 : 15
(C) 24 : 20 (D) 20 : 21
111. Three years ago the average age of a family of 5 members was 17 years. A baby having been born, the average age of the family remains the same today. The age of the baby today is
(A) 3 years (B) 2 years
(C) 1 year ✓ (D) 1.5 years

SPACE FOR ROUGH WORK

125. Two circles C_1 and C_2 touch each other internally at P. Two lines PCA and PDB meet the circles C_1 in C, D and C_2 in A, B respectively. If $\angle BDC = 120^\circ$, then the value of $\angle ABP$ is equal to
(A) 60° (B) 80° (C) 100° (D) 120°
126. DE is a tangent to the circumcircle of $\triangle ABC$ at the vertex A such that $DE \parallel BC$. If $AB = 17$ cm, then the length of AC is equal to
(A) 16.0 cm (B) 16.8 cm
(C) 17.3 cm (D) 17 cm
127. The distance between the centres of two circles with radii 9 cm and 16 cm is 25 cm. The length of the segment of the tangent between them is
(A) 24 cm (B) 25 cm
(C) $\frac{50}{3}$ cm (D) 12 cm
128. If $x > 1$ and $x + \frac{1}{x} = 2\frac{1}{12}$, then the value of $x^4 - \frac{1}{x^4}$ is
(A) $\frac{58975}{20736}$ (B) $\frac{59825}{20736}$
(C) $\frac{57985}{20736}$ (D) $\frac{57895}{20736}$
129. AD is the median of a triangle ABC and O is the centroid such that $AO = 10$ cm. Length of OD (in cm) is
(A) 2 (B) 4 (C) 5 (D) 7
130. The measure of the angle between the internal and external bisector of an angle is
(A) 60° (B) 70° (C) 80° (D) 90°
131. Let A, B, C, D be the angles of a quadrilateral. If they are concyclic, then the value of $\cos A + \cos B + \cos C + \cos D$ is
(A) 0 (B) 1 (C) -1 (D) 2
132. If a pole of 12 m high casts a shadow of $4\sqrt{3}$ m long on the ground, then the sun's angle of elevation at that instant is
(A) 30° (B) 60° (C) 45° (D) 90°
133. If $\sin(\theta + 18^\circ) = \cos 60^\circ$ ($0 < \theta < 90^\circ$), then the value of $\cos 5\theta$ is
(A) $\frac{1}{2}$ (B) 0
(C) $\frac{1}{\sqrt{2}}$ (D) 1
134. If $\tan \theta = \frac{3}{4}$, then the value of $\frac{4 \sin^2 \theta - 2 \cos^2 \theta}{4 \sin^2 \theta + 3 \cos^2 \theta}$ is equal to
(A) $\frac{1}{21}$ (B) $\frac{2}{21}$
(C) $\frac{4}{21}$ (D) $\frac{8}{21}$
135. If $\frac{\cos \alpha}{\cos \beta} = a$, $\frac{\sin \alpha}{\sin \beta} = b$, then $\sin^2 \beta$ is equal to
(A) $\frac{a^2 - 1}{a^2 + b^2}$ (B) $\frac{a^2 + 1}{a^2 - b^2}$
(C) $\frac{a^2 - 1}{a^2 - b^2}$ (D) $\frac{a^2 + 1}{a^2 + b^2}$

SPACE FOR ROUGH WORK

136. If the Universal Set

$U = \{1, 2, 3, 4, 5, 6, 7, 8\}$ and

$A = \{1, 2, 3, 4\}$, then A^C is equal to

- (A) $\{5, 6, 7, 8\}$ (B) $\{5, 6, 1, 2\}$
(C) $\{5, 6, 2, 3\}$ (D) $\{5, 6, 3, 4\}$

137. Find the n^{th} term of the following sequence :

$$5 + 55 + 555 + \dots T_n$$

- (A) $5(10^n - 1)$ (B) $5^n(10^n - 1)$
(C) $\frac{5}{9}(10^n - 1)$ (D) $\left(\frac{5}{9}\right)^n(10^n - 1)$

138. If 12 men or 24 boys can do a work in 66 days, the number of days in which 15 men and 6 boys can do it is
(A) 44 (B) 33 (C) 55 (D) 66

139. The 30^{th} term of the series $30, 25\frac{1}{2},$

$21, 16\frac{1}{2}, \dots$ is

- (A) 0 (B) $-100\frac{1}{2}$
(C) -183 (D) $-133\frac{1}{2}$

140. The digit in unit's place of the product

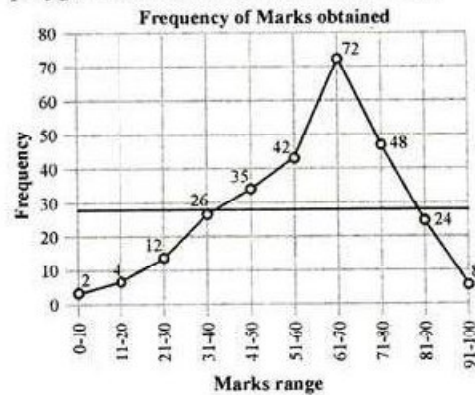
$$49237 \times 3995 \times 738 \times 83 \times 9 \text{ is}$$

- (A) 0 (B) 7 (C) 5 (D) 6

141. If $x : y$ be the ratio of two whole numbers and z be their h.c.f., then the l.c.m. of those two numbers is

- (A) yz (B) $\frac{xz}{y}$
(C) $\frac{xy}{z}$ (D) xyz

The marks obtained by 273 examinees is shown by the frequency polygon. Given that mean marks is 59.5. Study the frequency polygon and answer Q. Nos. 142 to 145.



142. The number of examinees getting more than average marks is

- (A) 72 (B) 105 (C) 152 (D) 164

143. Percentage of the students who got above 80% marks is

- (A) 9.81 (B) 10.53 (C) 11.28 (D) 11.72

144. Percentage of the students got marks above 60% and below 80% is

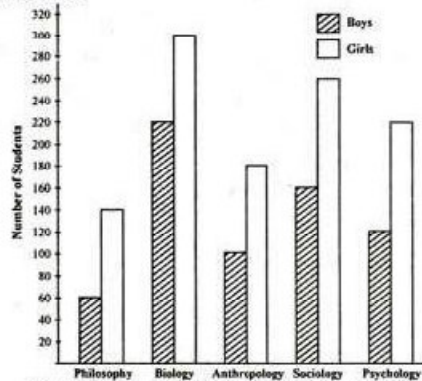
- (A) 43.95 (B) 48.39
(C) 51.06 (D) 56.84

145. If 40 is the pass marks, percentage of students failed is _____.

- (A) 14.56 (B) 15.84
(C) 16.11 (D) 17.25

SPACE FOR ROUGH WORK

Study the bar diagram and answer Q. Nos. 146 to 150.



Total number of boys and girls in five different departments of a college

146. The percentage of the girls from Biology Department comparing to the total number of girls from all the other Departments together is
(A) $37\frac{1}{2}$ (B) 37 (C) $36\frac{1}{2}$ (D) $35\frac{1}{2}$
147. The difference between the total number of boys and the total number of girls from all the Departments together is
(A) 540 (B) 520 (C) 460 (D) 440
148. The average number of boys from all the departments together is
(A) 123 (B) 132 (C) 134 (D) 142
149. The percentage of the boys from Biology Department comparing to the total number of boys from all the Departments together is
(A) $33\frac{1}{2}$ (B) 50 (C) $33\frac{1}{3}$ (D) 30
150. The respective ratio of number of girls from Philosophy Department to the number of girls from Psychology Department is
(A) 7 : 11 (B) 11 : 7
(C) 7 : 10 (D) 6 : 11

FOR VISUALLY HANDICAPPED CANDIDATES ONLY

142. Which one of the following numbers is a multiple of 11 ?
(A) 978626 (B) 447355
(C) 112144 (D) 869756
143. ₹ 782 is divided into 3 parts proportional to the fractions $\frac{1}{2}$, $\frac{2}{3}$ & $\frac{3}{4}$. Then the 1st part is
(A) ₹ 182 (B) ₹ 190 (C) ₹ 196 (D) ₹ 204
144. The total interest in 4 years becomes $\frac{8}{25}$ of the principal at some simple interest per annum. The rate of interest per annum is
(A) 8% (B) 16% (C) $3\frac{2}{25}\%$ (D) 4%
145. If 15% of the students in a school are boys and the girl's number is 340, then the number of the boys is
(A) 30 (B) 60 (C) 80 (D) 85
146. The value of $\frac{6.4 \times 6.4 \times 6.4 - 4.6 \times 4.6 \times 4.6}{6.4 \times 6.4 + 6.4 \times 4.6 + 4.6 \times 4.6}$ is
(A) 11 (B) 5.4 (C) 3.6 (D) 1.8
147. If $P^2 + \frac{1}{P^2} = 1$ ($P > 0$), then the value of $P^3 + \frac{1}{P^3}$ is
(A) 1 (B) 2 (C) 3 (D) 0
148. Each interior angle of a regular octagon is
(A) 120° (B) 108° (C) 135° (D) 45°
149. The value of $\frac{12 \sin^2 61^\circ + 8 + 12 \sin^2 29^\circ}{9 \cos^2 13^\circ + 1 + 9 \cos^2 77^\circ}$ is
(A) 1 (B) 2 (C) 4 (D) 3
150. If $\tan(\theta + 15^\circ) = \sqrt{3}$, where θ is acute, then the value of $\sin \theta$ is
(A) $\sqrt{2}$ (B) $\frac{1}{\sqrt{3}}$ (C) $\frac{\sqrt{3}}{2}$ (D) $\frac{1}{\sqrt{2}}$

SPACE FOR ROUGH WORK

Part – IV GENERAL AWARENESS

151. Which among the following States, first introduced the Panchayat Raj System ?
(A) Rajasthan (B) Haryana
(C) Uttar Pradesh (D) Maharashtra
152. Which was the backbone of Indus Economy ?
(A) Agriculture ✓
(B) Trade
(C) Wheel Made Pottery
(D) Carpentry
153. Which Mughal Emperor transferred the Mughal Capital from Agra to Delhi ?
(A) Jahangir (B) Aurangzeb
(C) Shahjahan ✓ (D) Bahadur Shah
154. Who said, "A living thing is born" after the League of Nation's Covenant was drafted ?
(A) Lord Robert Cecil
(B) Woodrow Wilson
(C) Orlando
(D) Neville Chamberlain
155. The author of 'Arthashastra' was a contemporary of _____.
(A) Ashoka
(B) Chandragupta Maurya ✓
(C) Samudragupta
(D) Chandragupta Vikramaditya
156. The Taj-Mahal was built by _____.
(A) Jahangir (B) Shahjahan ✓
(C) Sher Shah (D) Nadir Shah
157. The Election Commission is established under the Article
(A) Article-355 (B) Article-256
(C) Article-324 (D) Article-320
158. In the year 1977, an official committee was appointed to examine Panchayat Raj under the Chairmanship of
(A) Ashok Mehta
(B) Shri Ram Mehta
(C) Balwant Rai Mehta
(D) Manohar Lal Mehta
159. How many countries are the members of U.N. General Assembly ?
(A) 190 (B) 191
(C) 192 (D) 193
160. Which one of the following continents lies in Northern-Southern and Eastern-Western hemispheres of the earth ?
(A) Australia ✓ (B) Africa
(C) Europe (D) South America
161. Which Committee/Commission examined the Centre and State relationship ?
(A) Ashok Mehta Committee
(B) Indrajit Gupta Committee
(C) Sarkaria Commission
(D) N.N. Vohra Committee
162. Which one of the following is not a photosynthetic pigment ?
(A) Chlorophyll (B) Phycobilin
(C) Carotenoid (D) Anthocyanin
163. National Fruit of India is
(A) Mango ✓ (B) Pineapple
(C) Apple (D) Grapes
164. Which of the following is a fibrous protein ?
(A) Haemoglobin ✓ (B) Albumin
(C) Keratin (D) Enzymes
165. Typhoid fever is caused by
(A) Bacteria (B) Virus ✓
(C) Protozoa (D) Fungi
166. The International Commission on Zoological Nomenclature was established in
(A) 1898 (B) 1988
(C) 2001 (D) 1664
167. Which one of the following is the world's largest desert ?
(A) Arabian (B) Kalahari
(C) Sahara ✓ (D) Thar
168. The percentage of India's total population employed in agriculture is nearly
(A) 60% (B) 50% ✓
(C) 70% (D) 80%
169. The temperature increases rapidly above
(A) Ionosphere (B) Exosphere
(C) Stratosphere (D) Troposphere

170. 1 Micron is equal to
 (A) 10^{-9} m (B) 10^{-12} m
 (C) 10^{-6} m (D) 10^{-15} m
171. A wavelength of 0.3 m is produced in air and it travels at a speed of 300 m/s. Then it will be an
 (A) Audible wave
 (B) Infrasonic wave
 (C) Ultrasonic wave
 (D) Microwave
172. The time between program input and output is called
 (A) Turn around time
 (B) Waiting time
 (C) Execution time ✓
 (D) Delay time
173. The Indian National Grid Computing Initiative for Scientific Engineering and Academic Community is named
 (A) Ganga (B) SAGA
 (C) Garuda (D) PARAM
174. Sodium Carbonate is commonly known as
 (A) Baking Soda (B) Washing Soda ✓
 (C) Caustic Soda (D) Caustic Potash
175. Carolus Linnaeus System of classification is
 (A) Natural (B) Artificial
 (C) Binomial (D) Phylogenetic
176. A man standing at the top of a tower has two spheres A and B. He drops sphere A downwards and throws sphere B horizontally at the same time. Which of the following is correct?
 (A) Both the spheres will reach the ground simultaneously.
 (B) A will reach the ground first.
 (C) B will reach the ground first.
 (D) The question is incomplete because the masses of the spheres are not given.
177. The dimensional formula $ML^{-1}T^{-2}$ corresponds to
 (A) Modulus of elasticity
 (B) Viscosity
 (C) Moment of a force
 (D) Thrust
178. Concentration of a material which is lethal to 50% animal is called as
 (A) LD_{50} (B) LC_{50}
 (C) NOAEL (D) ADI
179. Neap tides are
 (A) Strong (B) Weak
 (C) Medium (D) Very strong
180. Sahara is located in which part of Africa?
 (A) Eastern ✓ (B) Western
 (C) Northern (D) Southern
181. The Ocean with the largest surface area is
 (A) Arctic Ocean
 (B) Atlantic Ocean
 (C) Indian Ocean
 (D) Pacific Ocean ✓
182. About how many Indians cannot meet their essential needs as per a report by McKinsey Global Institute (MGI) released on 19th February, 2014?
 (A) 66% (B) 56%
 (C) 46% (D) 36%
183. When a bond is formed between two atoms, the energy of the system will
 (A) increase ✓
 (B) decrease
 (C) remain the same
 (D) may increase or decrease
184. If the equilibrium constants for the systems $H_2 + I_2 \rightleftharpoons 2HI$ and $2HI \rightleftharpoons H_2 + I_2$ are K_1 and K_2 respectively, the relationship between K_1 and K_2 is:
 (A) $K_1 = K_2$ (B) $K_1 = 2K_2$
 (C) $K_1 = K_2/2$ (D) $K_1 = 1/K_2$
185. Water has maximum density at
 (A) 100 °C (B) 0 °C
 (C) 4 °C (D) 273 °C

186. Who is the founder of Jainism in India ?
(A) Gautama (B) Mahavira
(C) Chandragupta (D) Ashoka
187. Who compiled the tales of "The Panchatantra" ?
(A) Valmiki
(B) Veda Vyasa
(C) Vishnu Sharma
(D) Tulsidas
188. Rajiv Gandhi Khel Ratna award for 2012-13 was awarded to
(A) Sachin Tendulkar
(B) Sania Mirza
(C) Major RVS Rathore
(D) Ronjan Sodhi
189. Human Rights Day is observed on
(A) 10th March (B) 10th July
(C) 10th September (D) 10th December
190. Ajanta Caves were built during period of
(A) Gupta (B) Kushana
(C) Maurya (D) Chalukya
191. Who was the painter of the famous painting called - 'Bharatmata' ?
(A) Gaganendranath Tagore
(B) Abanindranath Tagore
(C) Nandalal Bose
(D) Jamini Roy
192. Who discovered Cape of Good Hope in 1488 ?
(A) Magellan
(B) Columbus
(C) Bartholomew Dias
(D) Vasco da gama
193. Telephone was invented by
(A) Alexander Graham Bell
(B) Baird
(C) Stevenson
(D) Newton
194. Which was the first country to host the Asian Games ?
(A) Korea (B) India
(C) Japan (D) China
195. The 'Slack Season' in the Indian Economy is
(A) March-April
(B) September-December
(C) January-June
(D) February-April
196. The relationship between the rate of interest and level of consumption was first visualized by
(A) Amartya K. Sen
(B) Milton Friedman
(C) Irving Fisher
(D) James Duesenberry
197. Which one of the Constitutional amendment has established Panchayati Raj Institution ?
(A) 72nd Amendment Act
(B) 71st Amendment Act
(C) 73rd Amendment Act
(D) 78th Amendment Act
198. 'Take-off stage' in an economy means
(A) Steady growth begins.
(B) Economy is stagnant.
(C) Economy is about to collapse.
(D) All controls are removed.
199. Taxes are as certain as the death, because
(A) They constitute the major source of government revenue.
(B) Government have no other source of revenue.
(C) Most PSUs are run inefficiently.
(D) Government has its own budget constraints.
200. Which is NOT a measure undertaken by government to check inflation ?
(A) Increase in consumption
(B) Increase in production
(C) Reduction in Deficit financing
(D) Taxation measures