

**SSC CHSL (10+2) MORNING EXAM PAPER 1-11-2015**  
**DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO**

**DE - 2015**



**Time Allowed : 2 Hours (for V. H. Candidates and Candidates Suffering from Cerebral Palsy : 2 Hrs 40 min)**  
**Read the following instructions carefully before you begin to answer the question**  
**Maximum Marks : 200**

**INSTRUCTION TO CANDIDATES**

1. 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)
2. In questions set bilingually in English and Hindi language, in case of discrepancy, the English version will prevail.
3. All questions are compulsory and carry equal marks.
4. The paper carries negative marking 0.25 marks will be deducted for each wrong answer.
5. **Before you start to answer the questions you must check up this booklet and ensure that it contains all the pages (1-24) and sell that no page is missing or repeated. If you find any defect in this booklet, you must get it replaced immediately.**
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 in 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.**
7. Answers must be shown by completely blackening the corresponding circle 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.
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.
9. The answer sheet must be handed over to the Invigilator before you leave the Examination Hall.
10. **Failure to comply with any of the above instructions will render a candidate liable to such action / penalty as may be deemed fit.**
11. The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page no. 24), which you should read carefully before actually answering the questions.
12. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and other s easy. Do not spend too much time on any question.
13. In lieu of question Nos. 44 to 55 and 142 to 150, relating to figural portions, alternate questions have been provided to be attempted by V. H. / Cerebral Palsy candidates only.)
14. **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.”

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**PART -I: GENERAL INTELLIGENCE**

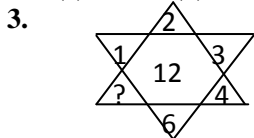
1. In 5 years, Rs. 5,000 amounts to Rs. 9,000. In what time at the same rate will Rs. 600 amounts to Rs. 900?  
 (a) 5 years (b) 3 years (c) 2 years (d) 6 years

**Directions:**

In the following four questions, select the missing number from the given responses.

2.  $\begin{matrix} 8 & 13 & 10 \\ 7 & 12 & 9 \\ 10 & 15 & ? \end{matrix}$

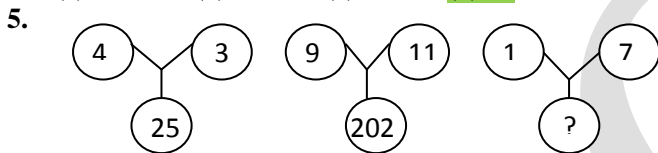
- (a) 5 (b) 19 (c) 8 (d) 12



- (a) 1 (b) 6 (c) 12 (d) 8

4.  $\begin{matrix} 3 & 21 & 7 \\ 4 & ? & 3 \\ 2 & 16 & 8 \end{matrix}$

- (a) 5 (b) 10 (c) 1 (d) 12



- (a) 50 (b) 100 (c) 75 (d) 25

**Directions:**

In the following Three questions, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

6. EZ FY XG ?

- (a) WG (b) GW (c) HW (d) WH

7. 1, 16, 81, 256, 625, ?

- (a) 4163 (b) 2225 (c) 1225 (d) 1296

8. 1, 5, 13, 25, 41, 61, ?

- (a) 81 (b) 91 (c) 85 (d) 77

**Directions:**

In the following Nine questions, select the respective word/letters/number from the given alternatives.

9. 4: 36::?: 49

- (a) 5 (b) 7 (c) 6 (d) 8

10. CEIM: DGLQ::FGIO:?

- (a) GILS (b) GMIS (c) GLIS (d) GMSI

11. Heart: Cardiologist:: Brain:?

- (a) Nephrologists

- (b) Neurologist

- (c) Ophthalmologist

- (d) Gynecologist

12. GFEH: RQPS::LKJM: ?

- (a) ONMP (b) LKNM (c) VUMX (d) IHJG

13. HIJK:GFED::NOPQ:?

- (a) EFGH (b) BCDE (c) FDEC (d) MLKJ

14. 235:587:: 435:?

- (a) 788 (b) 988 (c) 789 (d) 989

15. Car: Garage::?: Hangar

- (a) Bus (b) Aero plane (c) Truck (d) Train

16. 17:102:: 23:?

- (a) 413 (b) 216 (c) 112 (d) 138

17. Governor: State::President:?

- (a) Country

- (b) District

- (c) Constituency

- (d) Organization

**Directions:**

In the following Three questions, arrange the following words as per order in the dictionary.

18. 1.Intervention 2.Intertwine

3. Interview 4.Intervene

- (a) 4, 3, 2, 1 (b) 2, 3, 4, 1

- (c) 2, 4, 1, 3 (d) 3, 4, 1, 2

19. 1.Smoulder 2.Smother

3. Smuggle 4.Smudge

- (a) 2, 1, 4, 3 (b) 4, 3, 2, 1

- (c) 1, 4, 3, 2 (d) 1, 2, 3, 4

20. 1.Plate 2.Plane

3. Plaster 4.Plasma

5. Plastic

- (a) 1, 2, 3, 4, 5 (b) 2, 5, 3, 4, 1

- (c) 2, 1, 5, 3, 4 (d) 2, 4, 3, 5, 1

**Directions:**

In the following Two questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

21. b \_ ac \_ cc \_ cb \_ ab \_ ac

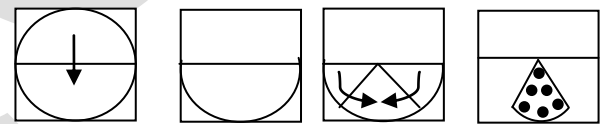
- (a) abbbc (b) aabba (c) cbaba (d) bbaac

22. \_ zy \_ zxy \_ yxxz \_ zyx \_ xy

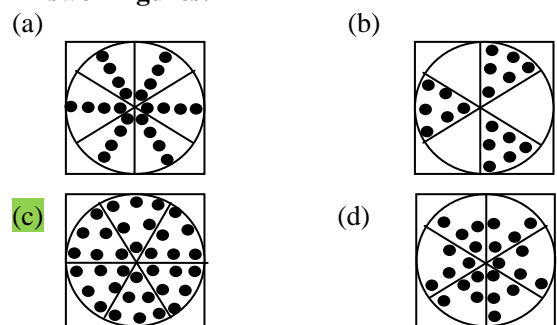
- (a) Yxzyz (b) yzxyx (c) xyzyz (d) zxyzy

23. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

**Question Figures:**



**Answer Figures:**



**Directions:**

In the following Nine questions, find out the odd word/letters/number/number pair from the given alternatives.

24. Find out the odd pair:

- (a) Brush-Paint (b) Pen-Ink (c) Crayon-Chart

- (d) Pencil-Lead

25. Find out the odd word:

- (a) HAMAM (b) CINTHOL (c) PEARS (d) RIN

26. Find out the odd letters:

- (a) TIW (b) RFD (c) CAP (d) PET

27. Find out the odd letters:

- (a) STUA (b) MLKA (c) HGFA (d) RQPA

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28. Find out the odd number pair:  
 (a) 57 -75 (b) 12-21 (c) 15-41 (d) 34 - 43
29. Find out the odd word:  
 (a) Crane (b) Kingfisher (c) Humming bird  
 (d) Sparrow
30. Find out the odd number:  
 (a) 368127 (b) 564327 (c) 742956 (d) 876321
31. Find out the odd letters:  
 (a) ADGJ (b) IMQU (c) WZCF (d) LORU
32. Find out the odd number pair:  
 (a) (24, 96) (b) (61, 244) (c) (54, 216)  
 (d) (27, 135)

### Directions:

In the following **Two** questions, unscramble the letters to form a meaningful word. Then find out the correct numerical position of the letters.

### 33. NITIFEIN

2 4 5 4 3 6 4 2

- (a) 2 4 3 2 4 2 5 6 (b) 3 2 5 3 5 2 4 6  
 (c) 3 2 4 3 5 2 4 6 (d) 4 2 3 4 2 4 5 6

### 34. H N R C A B

1 2 3 4 5 6

- (a) 3 5 6 4 1 2 (b) 6 3 5 2 4 1  
 (c) 6 5 3 4 1 2 (d) 4 1 5 6 2 3

35. 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., M can be represented by 01, 10 etc., and A can be represented by 56, 65 etc., Similarly, you have to identify the set for the word ROD.

### Matrix -I

	0	1	2	3	4
0	I	M	W	S	Q
1	M	W	S	Q	I
2	W	S	Q	I	M
3	S	Q	I	M	W
4	Q	I	M	W	S

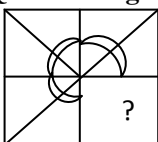
### Matrix-II

	5	6	7	8	9
5	O	A	D	R	N
6	A	D	R	N	O
7	D	R	N	O	A
8	R	N	O	A	D
9	N	O	A	D	R

- (a) 56, 66, 86 (b) 58, 66, 78 (c) 58, 69, 65  
 (d) 67, 96, 57

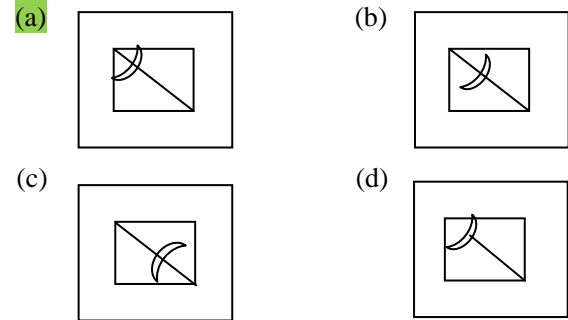
36. Which answer the figure will complete the pattern in the question figure?

### Question Figure:

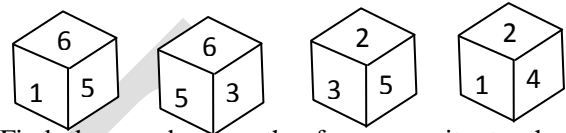


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### Answer Figures:



37. Four positions of a dice are given below:



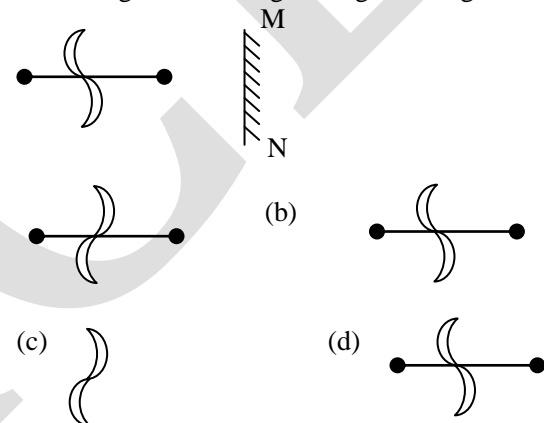
Find the number on the face opposite to the face showing 4.

- (a) 6 (b) 5 (c) 1 (d) 3

38. A watch reads 4:30. If the minute hand points East in which direction will the hour hand point?

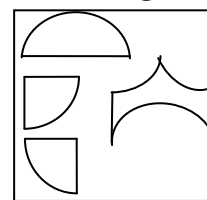
- (a) South (b) North-East (c) North  
 (d) South-West

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

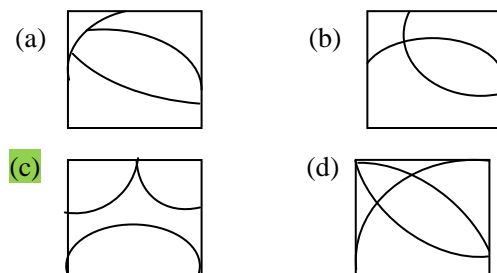


40. Identify the answer figure from which pieces given in the question figure have been cut.

### Question Figure:



### Answer Figures:



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41. Find out the incorrect term in the series.  
2, 5, 10, 3, 6, 18, 4, 7, 30  
(a) 6 (b) 30 (c) 10 (d) 7
42. In the question, two statements are given followed by two conclusions I and II. 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.
- Statements I:** Creative persons are learned people.  
**II.** Some doctors are creative persons.
- Conclusions I:** Some creative persons are learned people.  
**II.** Some learned people are doctors.
- (a) II (b) Neither I nor II (c) I (d) I & II
43. In the question, two statements are given. You have to answer considering the statements to be true, even if they seem to be at variance from commonly known facts.

**Statements I:** Plants grow from seeds.

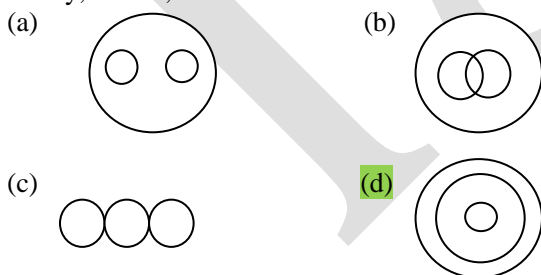
**II.** Seeds are produced by flowers.

**Conclusions:**

- (a) Seeds are produced by plants.  
(b) Flowers and seeds are produced by plants.  
(c) Plants grow from flowers.  
(d) Flowers are produced by plants.
44. Raghu jogged 2 km southwards, then he turned right and walked 5 km. He again turned right and walked and jogged 8 km. In which direction was he seen moving last?  
(a) West (b) South (c) East (d) North
45. If in a certain code ONE is coded as 231, FIVE is coded as 9641, then how will be NINE coded?  
(a) 3613 (b) 3361 (c) 3631 (d) 3316
46. Select the set of symbols which can be fitted correctly in the equation.  
 $5 \_ 3 \_ 8 \_ 4 \_ 2 = 21$   
(a) -, ×, +, ÷ (b) ×, +, -, ÷ (c) +, ×, -, ÷  
(d) +, ×, +, ÷

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

Library, Books, Racks



48. If PNLJ: 2468, then QOKL:?  
(a) 3591 (b) 1276 (c) 1376 (d) 1367
49. Five students are standing one behind the other in the playground facing the instructor. Malini is behind Anjana, but in front of Gayathri. Meena is in front of Shena, but behind Gayathri. What is the position of Meena?  
(a) Second from last  
(b) Second from first  
(c) Extreme first

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- (d) Extreme last
50. If a means +, b means ×, c means ÷, d means -, then  $20a10b45c5d12 = ?$   
(a) 88 (b) 98 (c) 74 (d) 68

### PART -II: ENGLISH LANGUAGE

#### Directions:

In the following **Four** Questions, a sentence/a part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed blacken the circle [●] corresponding to "No improvement" in the Answer Sheet.

51. There were times in his life when he struggled for one square meal a day.  
(a) He struggled one day for food.  
(b) He keeps struggling for meals.  
(c) He struggled with one square meal a day.  
(d) No improvement
52. Let you and I go together.  
(a) No improvement (b) my (c) mine (d) me
53. Each and everyone of you are guilty of some crime or the other.  
(a) Everyone are guilty  
(b) Each and each of you are guilty  
(c) No improvement  
(d) Each and everyone of you is guilty
54. He summarily dismissed what his son told him in a fit of rage.  
(a) In a fit of rage he summarily dismissed what his son told him.  
(b) No improvement.  
(c) He summarily dismissed in a fit of rage what his son told him.  
(d) What his son told in a fit of rage he summarily dismissed.

#### Directions:

In the following **Ten** Questions given below 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 by blackening the appropriate circle [●] in the Answer Sheet.

Did the Earth always (i) as it does today? No, (ii) its origin about 4.8 billion years ago, our planet has (iii) a lot of changes. The initial ball of fire (iv) down and the surface slowly (v) solid. Today we (vi) that the Earth's crust is divided (vii) several plates, (viii) move continuously. Entire continents (ix) been displaced and mountains, islands (x) new seas have been formed or have disappeared.

55. (viii)  
(a) Whom (b) who (c) which (d) whose
56. (vi)  
(a) Have known (b) know (c) knew  
(d) had known
57. (i)  
(a) Looks (b) look (c) looked (d) looking
58. (x)  
(a) Or (b) but (c) so (d) and
59. (vii)  
(a) On (b) to (c) into (d) in
60. (iii)  
(a) Undergone (b) undergo (c) underwent

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(d) undergoes

61.(v)

(a) Turned (b) turning (c) has turned (d) turn

62.(iv)

(a) Cools (b) cooling (c) cooled (d) cool

63.(ii)

(a) From (b) after (c) since (d) before

64.(ix)

(a) Has (b) are (c) have (d) had

### Directions:

In the following **Four** Questions, out of the four alternatives, choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate circle [●] in the Answer Sheet.

65. One who sells articles at public sales.

(a) Juggler (b) milliner (c) auctioneer (d) teller

66. A partner in crime

(a) Accomplish (b) helper (c) assistant (d) alibi

67. A general act of forgiveness or pardon.

(a) Emancipation (b) amnesty (c) benediction

(d) gratification

68. A place where arms and weapons are stored.

(a) Kiln (b) granary (c) arsenal (d) tannery

### Directions:

In the following **Four** Questions, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

69. Mammoth

(a) Stupendous (b) Monumental (c) Prodigious

(d) Minute

70. Cautious

(a) Watchful (b) Alert (c) Careless (d) Thoughtful

71. Abhor

(a) Miss (b) Mad (c) Love (d) Hate

72. Dubious

(a) Assured (b) Double (c) Easy (d) Demise

### Directions:

In the following **Four** Questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the circle [●] corresponding to the appropriate correct option. If a sentence is free from error, blacken the circle [●] corresponding to "No Error" in the Answer Sheet.

73. The flower and the vine are growing well.

(a) No error (b) The flower (c) are growing well

(d) and the vine

74. Forty minutes later James return to his family bearing an important piece of news.

(a) No error (b) Forty minutes later

(c) bearing an important piece of news

(d) James return to his family

75. Tutankhamen's death mask is still untarnished after thirty four centuries.

(a) Tutankhamen's death mask

(b) After thirty four centuries.

(c) Is still untarnished (d) No error

76. I jumped with the opportunity of going to Kashmir.

(a) No error (b) I jumped (c) of going to Kashmir

(d) with the opportunity

### Directions:

In the following **Four** Questions, the 1<sup>st</sup> and the last part of a sentence are numbered 1 and 6. The rest of the sentence is

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split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer and indicate it in the Answer Sheet.

77.1. A social network is

P. provides a clear way of analyzing

Q. a set of actors and the

R. a social structure made up of

S. dyadic ties between these actors

6. the structure of whole social entities.

(a) RQSP (b) SPRQ (c) PQRS (d) QSPR

78.1. Some people seem to imagine

P. and that when you have filled it with anything

Q. and it becomes as empty

R. that the human mind is like a bottle

S. you pour it out again

6. as it was before

(a) PQRS (b) PRSQ (c) RPSQ (d) RSPQ

79.1. The pilgrimage to Mecca

P. giving alms

Q. recognizing Allah as the only God

R. is one of the five religious duties of each Muslim

S. along with praying five times a day

6. and fasting four weeks once a year.

(a) RQPS (b) SQRP (c) SPQR (d) RSQP

80.1. England's Cath Webb

P. with her resolution

Q. to make a sponge cake every day for a year

R. hit the headlines in January

S. and give it to a friend, family member or stranger

6. just to make them smile.

(a) SPRQ (b) RQSP (c) SRPQ (d) RPQS

### Directions:

In the following **Four** Questions, 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 indicate it by blackening the appropriate circle [●] in the Answer Sheet.

81. I have no \_\_\_\_\_ riches.

(a) Desire to (b) desire for (c) desirous of

(d) desire of

82. A warm reception was \_\_\_\_\_ him.

(a) Given for (b) allied to (c) allotted to

(d) accorded to

83. The doctor \_\_\_\_\_ the woman that her son would recover.

(a) Assumed (b) assured (c) ensured (d) insured

84. He is only an \_\_\_\_\_ director in the organization but he does his work sincerely.

(a) Honour (b) honorific (c) honorary

(d) honourable

### Directions:

In the following **Two** Questions, a sentence has been given in Direct/indirect Speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct Speech and mark your answer in the Answer Sheet.

85. The maid confessed to the police that it was she who had taken the diamond ring.

(a) The maid said, "I have stolen the diamond ring."

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(b) The police were told, "I have taken the diamond ring."

(c) The maid told the police, "It is I who have taken the diamond ring."

(d) The maid said, "It is I who took the diamond ring."

86. My father said to me, "Go now".

(a) My father ordered to go now.

(b) My father ordered me to go then.

(c) My father ordered me to go now.

(d) My father ordered me to go later.

### Directions:

In the following **Four** Questions, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

87. Malady

(a) Lady (b) Parody (c) Disease (d) Melody

88. Luxuriant

(a) Lovely (b) Lush (c) Class (d) Luxurious

89. Despair

(a) Distress (b) Hopeless (c) Disrupt

(d) Discourage

90. Languid

(a) Luxurious (b) Lively (c) Lethargic

(d) Spirited

### Directions:

In the following **Four** Questions, 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.

91. Find the correctly spelt word:

(a) Diminutiv (b) Diminutive (c) Dimenutive

(d) Diminuitive

92. Find the correctly spelt word:

(a) Bougenvillea (b) Bouganvella

(c) Bougainvilla (d) Bougainvillea

93. Find the correctly spelt word:

(a) Occurrence (b) Occurance (c) Occurance

(d) Occurance

94. Find the correctly spelt word:

(a) Courteus (b) Courtious (c) Courteous

(d) Courtoeus

### Directions:

In the following **Four** Questions, four alternatives are given for the Idiom/Phrase underlined. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Sheet.

95. A Wild Goose Chase

(a) A baseless effort (b) a desperate effort

(c) a good effort (d) a useless effort

96. To eat humble pie.

(a) To have a low estimate of oneself

(b) To pretend to be humble

(c) To act apologetically (d) to starve

97. Men like Vidyasagar and Bhagat Singh are the salt of the earth.

(a) Famous men (b) ideal men

(c) Hard working men (d) makers of the earth

98. There was a definite element of fabrication in the story, but he believed the account hook, line and sinker.

(a) Not wholly (b) hardly (c) completely

(d) a little bit

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### Directions:

In the following **Two** Questions, a sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice and mark your answer in the Answer Sheet.

99. Was the question answered?

(a) Were they answering the question?

(b) Did the question get answered?

(c) Was the answer to the question given?

(d) Did they answer the question?

100. He may have left a message for me.

(a) A message may have been left for me.

(b) He might have left a message for me.

(c) A message might be left for me by him.

(d) A message may have been left for me by him.

## PART-III: QUANTITATIVE APTITUDE

### Directions:

Read it carefully and answer Five Questions.

Total cost of production of a firm is Rs. 250 lakh. Following pie-chart shows the percentage of costs of production in different purposes.

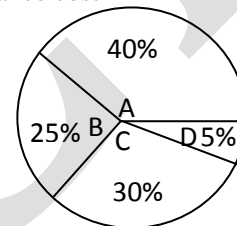
Letters A, B, C, D represent the following:

A = Cost of raw materials

B = Cost of packing materials

C = Cost of labour

D = Maintenance cost



101. If the cost of production doubles in a period of 3 years, then the corresponding maintenance cost in rupees will be

(a) Rs. 75 lakh (b) Rs. 25 lakh (c) Rs. 12.5 lakh

(d) Rs. 125 lakh

102. Cost of packing materials and raw materials together amounts to

(a) Rs. 175 lakh (b) Rs. 137.5 lakh

(c) Rs. 87.5 lakh (d) Rs. 162.5 lakh

103. If the production increase to five times of the present cost, then the percentage increase of the cost is

(a) 400% (b) 50% (c) 300% (d) 500%

104. If the total maintenance cost increases from Rs. 12.5 lakh to Rs. 50 lakh, then the percentage increase of the maintenance cost is

(a) 75% (b) 300% (c) 25% (d) 400%

105. If the packing cost increases by 2%, then the no packing cost will be

(a) Rs. 5 lakh (b) Rs. 63.75 lakh (c) Rs. 1.25 lakh

(d) Rs. 62.5 lakh

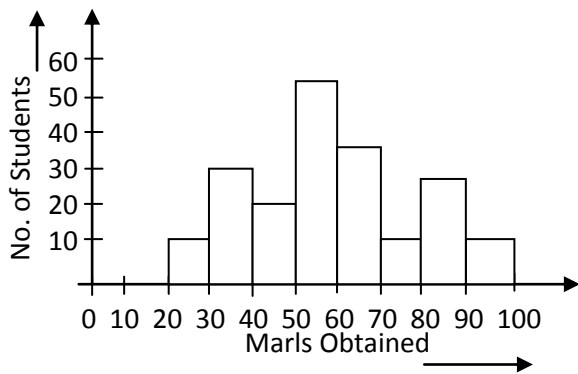
106. One-fifth of half of a number is 20. Then 20% of that number is

(a) 40 (b) 80 (c) 60 (d) 20

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## Directions:

Study the following histogram and answer the questions.



107. The percentage of students securing marks less than 50 is  
 (a)  $28\frac{4}{7}\%$  (b)  $27\frac{5}{7}\%$  (c)  $23\frac{13}{21}\%$  (d)  $47\frac{13}{21}\%$
108. The no. of students securing marks in the range 90 – 100 is  
 (a) 40 (b) 30 (c) 20 (d) 10
109. The range of marks obtained by maximum no. of students is  
 (a) 50-60 (b) 60-70 (c) 80-90 (d) 30-40
110. The total no. of students on whom this survey was made is  
 (a) 190 (b) 210 (c) 200 (d) 220
111. A discount series of 10%, 20% and 40% is equal to a single discount of  
 (a) 50% (b) 60% (c) 60.28% (d) 56.8%
112. AB is a diameter of a circle having centre at O. P is a point on the circumference of the circle. If  $\angle POA = 120^\circ$ , then measure of  $\angle PBO$  is  
 (a)  $70^\circ$  (b)  $60^\circ$  (c)  $68^\circ$  (d)  $75^\circ$
113. Average age of seven persons in a group is 30 years, the average age of five persons of this group is 31 years. What is the average age of the other two persons in the group?  
 (a) 26 years (b) 55 years (c) None of these (d) 15 years
114. The LCM of two numbers is 12 times their HCF. The sum of the HCF and LCM is 403. If one of the number is 93, then the other is  
 (a) 120 (b) 124 (c) 116 (d) 112
115. In 2 kg mixture of copper and aluminium, 30% is copper. How much aluminium powder should be added to the mixture so that the proportion of copper becomes 20%?  
 (a) 1000 gms (b) 800 gms (c) 900 gms (d) 1200 gms
116. A man spends his three months income in four months time. If his monthly income is Rs. 1,000, then his annual savings is  
 (a) Rs. 9,000 (b) Rs. 4,000 (c) Rs. 6,000 (d) Rs. 3,000
117. If the angles of a triangle are in the ratio 2:3:5, then the measure of the least angle of the triangle is  
 (a)  $90^\circ$  (b)  $36^\circ$  (c)  $20^\circ$  (d)  $18^\circ$
118. A man rows to a place 60 km distant and back in 13 hours 30 minutes. He finds that he can row 5 km with

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the stream in the same time as he can row 4 km against the stream. Find the rate of the stream.

- (a) 8 km/hr (b) 10 km/hr (c)  $\frac{1}{2}$  km/hr (d) 1 km/hr

119. 15 men can finish a work in 20 days, however it takes 24 women to finish it in 20 days. If 10 men and 8 women undertake to complete the work, then they will take  
 (a) 10 days (b) 30 days (c) 20 days (d) 15 days
120. BE, CF are the two medians of  $\Delta ABC$  and G is their point of intersection. EF cuts AG at O. Ratio of AO:OG is equal to  
 (a) 2:3 (b) 1:3 (c) 3:1 (d) 1:2
121. If  $a + \frac{1}{a} = -1$ , then the value of  $(1-a+a^2)(1+a-a^2)$  is  
 (a) 1 (b) -4 (c) 0 (d) 4
122. The weight of a container completely filled with water is 2.25 kg. The container weighs 0.77 kg when its 0.2 part is filled with water. The weight (in kg) of the container when 0.4 part of it is filled with water, is  
 (a) 0.74 (b) 0.40 (c) 1.14 (d) 1.88
123. The time required for a sum of money to amount to four times itself at 15% simple interest p.a. will be  
 (a) 15 years (b) 30 years (c) 20 years (d) 10 years
124. ABC is a triangle in which  $\angle A = 90^\circ$ . Let P be any point on side AC. If BC = 10 cm, AC = 8 cm and BP = 9 cm, then AP =  
 (a)  $2\sqrt{3}$  cm (b)  $3\sqrt{5}$  cm (c)  $3\sqrt{3}$  cm (d)  $2\sqrt{5}$  cm
125. The value of  $\sec^4 A(1-\sin^4 A) - 2 \tan^2 A$  is  $\sec^4 A(1-\sin^4 A) - 2 \tan^2 A$   
 (a) 0 (b) 1 (c) 2 (d)  $\frac{1}{2}$
126. A man rows 12 km in 5 hours against the stream, the speed of current being 4 km ph. What time will be taken by him to row 15 km with the stream?  
 (a) 1 hour  $25\frac{7}{13}$  min  
 (b) 1 hour  $26\frac{7}{13}$  min  
 (c) 1 hour  $24\frac{7}{13}$  min  
 (d) 1 hour  $27\frac{7}{13}$  min.
127. Which one of the following is true?  
 (a)  $\frac{7}{24} > \frac{1}{3} > \frac{3}{8} > \frac{5}{12}$  (b)  $0.5 < \frac{2}{3} < \frac{3}{4} < (\frac{16}{25})^{0.5}$   
 (c)  $\frac{1}{2} > \frac{2}{3} > \frac{3}{4} > \frac{4}{5}$  (d)  $0 > \frac{7}{17} > \frac{3}{7} > \frac{3}{5}$
128. If  $x = a \sec \theta + b \tan \theta$  and  $y = a \tan \theta + b \sec \theta$  ( $a \neq b$ ), then the value of  $\frac{x^2 - y^2}{a^2 - b^2}$  is  
 (a) 1 (b) 2 (c)  $\frac{1}{2}$  (d) 0
129. A vendor purchased 40 dozen bananas for Rs. 250. Out of these 30 dozens were rotten and could be sold. At what rate per dozen should he sell remaining bananas to make a profit of 20%?  
 (a) Rs. 6 (b) Rs. 8 (c) Rs. 10 (d) Rs. 12
130. Arvind deposited a sum of money with a bank on 1<sup>st</sup> January, 2012 at 8% simple interest per annum. He received an amount Rs. 3,144 on 7<sup>th</sup> August, 2012. The money he deposited with the bank was  
 (a) Rs. 2,500 (b) Rs. 3,000 (c) Rs. 3,100 (d) Rs. 3,080

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131. Base of a prism of height 10 cm is square. Total surface area of the prism is 192 sq. cm. The volume of the prism is  
(a)  $90 \text{ cm}^3$  (b)  $120 \text{ cm}^3$  (c)  $160 \text{ cm}^3$   
(d)  $640 \text{ cm}^3$
132. ABCD is a cyclic quadrilateral, AB is the diameter of the circle. If  $\angle ACD = 50^\circ$ , the measure of  $\angle BAD$  is  
(a)  $50^\circ$  (b)  $130^\circ$  (c)  $140^\circ$  (d)  $40^\circ$
133. If  $x = 5$ , then the value of the expression  $x^2 - 2 + \frac{1}{x^2}$  is  
(a)  $\frac{24}{25}$  (b)  $\frac{625}{24}$  (c)  $\frac{576}{25}$  (d)  $\frac{24}{5}$
134. The radii of a sphere and a right circular cylinder are 3 cm each. If their volumes are equal, then curved surface area of the cylinder is (Assume  $\pi = \frac{22}{7}$ )  
(a)  $74\frac{3}{7} \text{ cm}^2$  (b)  $75\frac{3}{7} \text{ cm}^2$  (c)  $72\frac{3}{7} \text{ cm}^2$  (d)  $65\frac{3}{7} \text{ cm}^2$
135. The average marks of 14 students was 71. It was later found that the marks of one of the students has been wrongly entered as 42 instead of 56 and of another as 74 instead of 32. What is the correct average?  
(a) 68 (b) 67 (c) 71 (d) 69
136.  $(x^3 + y^6)(x^3 - y^6)$  is equal to  
(a)  $x^6 + y^{12}$  (b)  $x^6 - y^{12}$  (c)  $x^9 - y^{36}$  (d)  $x^9 + y^{36}$
137. Simplify  
$$\frac{\sqrt[4]{0.0625} + \sqrt[3]{0.008} + \sqrt{0.09} - 1}{\sqrt[3]{62.5}\sqrt[5]{32}}$$
  
(a) 2.4 (b) 0 (c) 1.25 (d)  $\frac{1}{5}$
138. A low land, 48 m long and 31.5 m broad is raised to 6.5 dm. for this, earth is removed from a cubical hole, 27 m long and 18.2 m broad, dug by the side of the land. The depth of the hole will be  
(a) 2 m (b) 2.5 m (c) 2.2 m (d) 3m
139. The value of  $(\cos 0^\circ + \sin 45^\circ + \sin 30^\circ)(\sin 90^\circ - \cos 45^\circ + \cos 60^\circ)$  is  
(a)  $\frac{5}{4}$  (b)  $\frac{3}{4}$  (c)  $\frac{3}{2}$  (d)  $\frac{7}{4}$
140. A can do half of a piece of work in 1 day, whereas B can do full, B can do half the work as C in 1 day. The ratio of their efficiencies of work is  
(a) 2:4:1 (b) 2:1:4 (c) 4:2:1 (d) 1:2:4
141. If  $5 \tan A = 4$ , then the value of  $\frac{5 \sin A - 3 \cos A}{\sin A + 2 \cos A}$  is  
(a)  $\frac{5}{6}$  (b)  $\frac{7}{9}$  (c)  $\frac{9}{14}$  (d)  $\frac{5}{14}$
142. If  $2 \sin^2 \theta - 3 \sin \theta + 1 = 0$ ,  $\theta$  being positive acute angle, then the values of  $\theta$  are  
(a)  $60^\circ, 45^\circ$  (b)  $30^\circ, 90^\circ$  (c)  $60^\circ, 55^\circ$  (d)  $45^\circ, 50^\circ$
143. The length of two parallel chords of a circle of radius 5 cm are 6cm and 8 cm in the same side of the centre. The distance between them is  
(a) 1.5 cm (b) 3 cm (c) 1 cm (d) 2 cm
144. Divide 27 into two parts so that 5 times the first and 11 times the second together equals to 195. Then ratio of the first and second parts is  
(a) 2:7 (b) 3:2 (c) 17:10 (d) 5:4
145. After deducting a commission of 5%, a T.V. set costs Rs. 9, 595. Its marked price is  
(a) Rs. 10,000 (b) Rs. 10,074.75 (c) Rs. 10,100  
(d) Rs. 12,000
146. Ram, Rahim and Robert started a partnership business investing Rs. 30,000, Rs. 50,000 and Rs. 40,000

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- respectively. If they made an annual profit of Rs. 18, 504, then the share of Rahim is  
(a) Rs. 7, 170 (b) Rs. 7, 510 (c) Rs. 7,710  
(d) Rs. 7,010
147. A right prism has triangular base. If  $v$  be the number of vertices,  $e$  be the number of edges and  $f$  be the number of faces of the prism. The value of  $\frac{v+e-f}{2}$   
(a) 10 (b) 4 (c) 2 (d) 5
148. The sum of  $\frac{1}{x+y}$  and  $\frac{1}{x-y}$  is  
(a)  $\frac{-2y}{x^2-y^2}$  (b)  $\frac{2x}{y^2-x^2}$  (c)  $\frac{2x}{x^2-y^2}$  (d)  $\frac{2y}{x^2-y^2}$
149. A bag contains coins of Rs. 1, 50 paise and 25 paise in the ratio 2:3:5. If the total value of these coins is Rs. 228, then the number of 50 paise coins in that bag was  
(a) 144 (b) 124 (c) 112 (d) 96
150. If  $x = 2$ ,  $y = 1$  and  $z = -3$ , then  $x^3 + y^3 + z^3 - 3xyz$  is equal to  
(a) 0 (b) 8 (c) 6 (d) 2

## PART -IV: GENERAL AWARENESS

151. When did India become a fully Sovereign Democratic Republic?  
(a) 26<sup>th</sup> November, 1951  
(b) 26<sup>th</sup> November, 1930  
(c) 26<sup>th</sup> January, 1949  
(d) 26<sup>th</sup> November, 1949
152. The hard enamel layer of teeth is  
(a) Calcium hydroxide  
(b) Calcium phosphate  
(c) Calcium oxide  
(d) Calcium hydroxyl apatite
153. The two components of an eco-system are  
(a) Plants and animals  
(b) Biotic and a biotic  
(c) Plants and light  
(d) Weeds and micro-organisms
154. The most stable measure of central tendency is  
(a) Mean (b) Mode (c) Median (d) Range
155. According to which Article, State Legislative Council can be created or abolished?  
(a) Article 168 (b) Article 169 (c) Article 167  
(d) Article 170
156. Of the following Rapeseed belongs to  
(a) Pepper (b) Linseed (c) Mustard  
(d) Coffee
157. The resistance of an ideal voltmeter is  
(a) Infinite (b) high (c) zero (d) low
158. An electronic path, that sends signals from one part of computer to another is  
(a) Logic Gate (b) Serial Port (c) Modem  
(d) Bus
159. Television was invented by  
(a) J.L. Baird (b) R.A. Millikan (c) Louis Braille  
(d) Lawrence
160. Reserve Bank of India was nationalized in  
(a) 1949 (b) 1948 (c) 1947 (d) 1945
161. Which of the following works on the basis of conservation of linear momentum?  
(a) Helicopter (b) Jet (c) Rocket (d) Aero plane
162. In marine whales, the limbs are modified as  
(a) Flappers (b) Grippers (c) Slippers  
(d) Flippers



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163. Penicillin was discovered by  
(a) Louis Pasteur (b) Alexander Fleming  
(c) Ian Fleming (d) Edward Jenner
164. A defect of vision in which the points in one plane of an object appear in focus while those in another plane are out of focus is called  
(a) Myopia (b) Hypermetropia (c) Astigmatism  
(d) Distortion
165. To whom did Allauddin Khilji entrust the mission to conquer South?  
(a) Ulugh Khan (b) Khizra Khan (c) Malik Kafur  
(d) Shaji Malik
166. Mercury thermometer was invented by  
(a) Galileo (b) Priestley (c) Newton  
(d) Fahrenheit
167. Amjad Ali Khan is associated with which of the following musical instruments?  
(a) Veena (b) Violin (c) Sarod (d) Sitar
168. Which of the following is observed as Sports Day every year?  
(a) 2 October (b) 26 July (c) 22 April  
(d) 29 August
169. The Earth is nearest to the Sun on  
(a) 3 January (b) 23 September (c) 21 March  
(d) 4 July
170. A sufficiently large scale map indicating the detailed surface features of an area including relief is called  
(a) Relief map (b) Chorographical map  
(c) Topographical map (d) Wall map
171. Vitamin which provides immunity  
(a) K (b) C (c) A (d) E
172. Which of the following is the best indicator of SO<sub>2</sub> pollution?  
(a) Pteridophyte (b) Algae (c) Lichen  
(d) Bryophyte
173. Respiration is controlled by \_\_\_\_\_ part of brain.  
(a) Medulla Oblongata  
(b) Olfactory Lobes  
(c) Cerebellum (d) Hypothalamus
174. The Great Bath was found at  
(a) Mohenjo-Daro (b) Chanhudaro (c) Lothal  
(d) Harappa
175. Who was the first to use the term "Micro" and "Macro" in Economics in 1933?  
(a) Ragnar Frisch  
(b) James Tobin  
(c) Gurly (d) I. Fischer
176. Which country earned the title "The Queen of Seas"?  
(a) Italy (b) France (c) Germany (d) Britain
177. Which of the following species is locally extinct in India?  
(a) Siberian Crane (b) The Gyps Vulture  
(c) Forest Owllet (d) White Bellied Heron
178. Aggregate Monetary Resources is  
(a) M2 (b) M4 (c) M1 (d) M3
179. India's 1<sup>st</sup> Hi-Speed Rural Broadband Network been commissioned in a district of  
(a) Andhra Pradesh (b) Karnataka (c) Telangana  
(d) Kerala
180. Centre for Ecological Sciences is situated at  
(a) Bangalore (b) Allahabad (c) Kernel  
(d) New Delhi

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181. When is Human Rights Day Celebrated?  
(a) 9<sup>th</sup> Dec. (b) 10<sup>th</sup> Oct. (c) 12<sup>th</sup> Dec.  
(d) 10<sup>th</sup> Dec.
182. The last dynasty of the Delhi Sultanate was the  
(a) Lodi dynasty (b) Slave dynasty  
(c) Syed dynasty (d) Khilji dynasty
183. What is Hawala?  
(a) Full details of a subject  
(b) Tax evasion  
(c) Illegal trading of shares  
(d) Illegal transactions of foreign exchange
184. The first National Park in India is  
(a) Corbett National Park  
(b) Simlipal National Park  
(c) Dachigam Wild Life Sanctuary  
(d) Hazaribagh National Park
185. Breath analyzers used by police to test drunken drivers works on the chemical basis of  
(a) Precipitation reactions  
(b) Complexation reactions  
(c) Acid-base reactions  
(d) Red ox reactions
186. The World Environment Day is celebrated on  
(a) June 16 (b) June 5 (c) April 7 (d) August 6
187. Who was the first Delhi Sultan to break the power of the Turkish nobles known as the Chahalgani or the Forty?  
(a) Iltutmish (b) Qutb-ub-din Aibak (c) Raziya  
(d) Balban
188. There are only two metals that are non-silver in colour, they are  
(a) Nickel & Zinc (b) Palladium & Platinum  
(c) Copper & Gold (d) Sodium & Magnesium
189. The system in which the few govern many is known as  
(a) Plutocracy (b) Autocracy (c) Oligarchy  
(d) Monarchy
190. The lowest temperature is recorded by  
(a) Maximum reading thermometer  
(b) Minimum reading thermometer  
(c) Mercurial thermometer  
(d) Alcohol thermometer
191. ICMP is used for  
(a) Multicasting (b) Forwarding (c) Error reporting  
(d) Addressing
192. Who is the founder of Homeopathy?  
(a) Laennec (b) Wakes man (c) Domagk  
(d) Hahnemann
193. Which gas is responsible for depletion of ozone layer around earth which protect us from harmful ultra-violet rays?  
(a) Oxygen (b) Nitrogen (c) Nitrogen oxide  
(d) Chlorofluoro carbons
194. Which scientist wrote a book called "A Brief History of Time"?  
(a) Stephen Hawking (b) J.L. Baird  
(c) Edward Jenner (d) Pasteur
195. Who was the first Deputy Prime Minister of India?  
(a) Sardar Vallabhbhai Patel  
(b) Gulzarilal Nanda  
(c) Maulana Abul Kalam Azad  
(d) Jawaharlal Nehru

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196. A plane glass slab is kept over coloured letters, the letter which appears least raised is  
(a) Red (b) Blue (c) Violet (d) Green
197. Where is Brabourne Stadium located?  
(a) Jamshedpur (b) Kolkata (c) Mumbai  
(d) Cuttack
198. Which is the final Appellate Court of Justice?  
(a) District Court (b) High Court (c) Civil Court  
(d) Supreme Court

### SSC CHSL (10+2) Morning Shift

199. Which of the following regulates the working of share market in India?  
(a) MRTP Act (b) SEBI (c) BIFR (d) FERA
200. Mass number is the sum of  
(a) Electrons and neutrons  
(b) Protons and neutrons  
(c) Only protons  
(d) Electrons and Protons

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