

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

EXAM ID. - 2391

SSC CPO

TEST SERIES

DATE - __/__/__

DAY -

INSTRUCTION FOR CANDIDATE

TEST SERIES NO.

A - 101

QUESTION – 200

MARKS – 200

NEGATIVE MARK – 0.25

DURATION – 120 MIN.

1. Use only ball pens with black or blue ink

2. As soon as the examination starts, you must check this question booklet and if there is any unprinted, mutilated or partially printed page or question in it, then replace it with the correct question booklet through Abhijagar.

3. There are total 200 questions in this question booklet.

4. This is an objective test, in which four options are given for the answer to each question, you have to choose only one option with the correct answer out of these four options.

5. Answers to all questions are to be written on separate answer sheets.

6. Instructions for filling the answer sheet are written on the back side of the answer sheet, read them carefully before filling the answer sheet.

7. Blank pages are available in this question booklet for rough work.

8. Candidates cannot leave the room before the end of the examination.

9. After the examination is over, you can go out with his permission by submitting the ORIGINAL COPY of the answer sheet to the invigilator.

10. After the completion of the examination, the candidate is allowed to take the question booklet and answer sheet with him/her.

11. 1 marks will be given for each correct answer and 0.25 marks will be deducted for each wrong answer.



**YOUR BRAND LOGO
HERE**

YOUR INSTITUTE NAME

Address- Your coaching institute full address

Helpline :- 7737404085, 8209244090

1. Three of the following four number-pairs are alike in a certain way and one is different. Find the odd one out.

- (a) 7 : 23 (b) 8 : 26
(c) 10 : 30 (d) 9 : 29

2. In a code language, RIVER is written a ERVRI how will TRAIN be written as in that language?

- (a) RATIN (b) INATR
(c) RAINI (d) RTANI

3. Three of following four words are alike in a certain way and one is different. Find odd one out.

- (a) Carpenter (b) Cobbler
(c) Tailor (d) Teacher

4. Select the option that is related to the third term. In the same way the second term related to first.
AZYB : CXWD :: BYWD : ?

- (a) DWUF (b) DUWF
(c) AYBE (d) AYWE

5. Three of the following four number-pairs are alike in a certain way and one is different. Find odd one out.

- (a) 78 : 15 (b) 79 : 20
(c) 88 : 16 (d) 69 : 15

6. Select the option that is related to the third number in the same way as the second number is related to the first?
15 : 36 :: 24 : ?

- (a) 25 (b) 36
(c) 46 (d) 34

7. In a code language, TRAIN is written as MRZIG. How will FACTOR be written as in that language ?

- (a) ILXGUZ (b) ILGXZU
(c) UZXGLI (d) UZGXIL

8. Select the number pair in which the two numbers are related in the same way as are the two number of given number pair?
17 : 65

- (a) 5 : 9 (b) 10 : 29
(c) 17 : 63 (d) 12 : 33.

9. Two positions of same dice are given. Which number will be at the top if '4' is bottom?



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

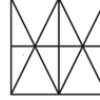
10. Three of the following four number – pair are alike in a certain way and one is different. Find the odd one out.

- (a) 5 : 12 (b) 8 : 24
(c) 13 : 74 (d) 14 : 72

11. Three of the following four number – pair are alike in a certain way and one is different. Find the odd one out.

- (a) 221 (b) 238
(c) 187 (d) 361

12. How many triangles are there in the given figure?



- (a) 26 (b) 30
(c) 24 (d) 28

13. Below are given statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow (s) from the given statements.

Statements:

I. All teachers are schools.

II. Some teachers are good.

Conclusion

I. Some goods are teachers.

II. All schools are teachers.

- (a) Only conclusion I follows (b) Only conclusion II follows
(c) Both conclusions follows (d) Neither I nor II follows

14. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

a b c _ d _ b c _ d _ b _ c d a

- (a) bacde (b) cdabe
(c) decdb (d) dacab

15. Which number will replace the question mark (?) in the following series?

7, 8.4, 10.8, 12.096, ?, 17.41824

- (a) 13.6131 (b) 13.2204
(c) 14.5152 (d) 14.6254

16. In a certain code, MENTION is written as LNEITNO. How PATTERN written in that code?

- (a) PTAETNR (b) OTAETNR
(c) OTAETNR (d) APTTREM

17. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

729 : 23 :: ?

- (a) 343 : 9 (b) 125 : 6
(c) 512 : 11 (d) 216 : 8

18. Divide Rs. 18249 among A, B, C in such a way that A's share is double the share of B and thrice the share of C. Find the share of C?

- (a) 3318 (b) 4206
(c) 1659 (d) 4191

19. Arrange the following words in a logical and meaningful order.

1-Table

2- Tree

3- Wood

4-Seed

5- Plant

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

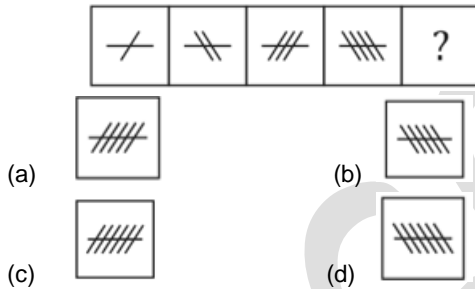
20. Select the Venn diagram that best illustrates the relationship between the following case.
City, State, Country



21. Neelam, who is deepak's daughter, says to Deepika, "your mother Rekha is the younger sister of my father who is the third child of Ramlal." How is Ramlal related to Deepika?

- (a) Grandfather (b) Father
(c) Uncle (d) Can't be determined

22. Select the figure that will come next in the following figure series.



23. Which letter-cluster will replace the question mark (?) in the following series?
GKI, KOM, OSQ, ?

- (a) RTV (b) TXV
(c) SWU (d) SYV

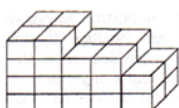
24. If TODAY is coded as UQECZ, how can BEFORE be coded?

- (a) CCBHIG (b) HIJQSG
(c) CGGQSG (d) CPSSF

25. 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

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



- (a) 8 (b) 10

- (c) 12 (d) 14

27. Which of the answer figures is exactly mirror of given figure?

Question Figure:

654

Answer Figure:

954 456 654
(1) (2) (3) (4)

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

28. If 'NEWS' is written as 'WENS' then how 'MATE' will be written in this code?

- (a) TAME (b) META
(c) EATM (d) AMET

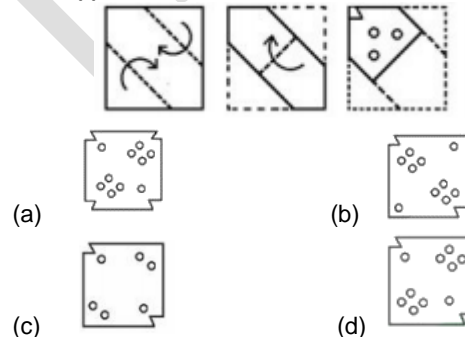
29. If REASON is coded as 5 and BELIEVED as 7, what is the code number for GOVERNMENT?

- (a) 6 (b) 8
(c) 9 (d) 10

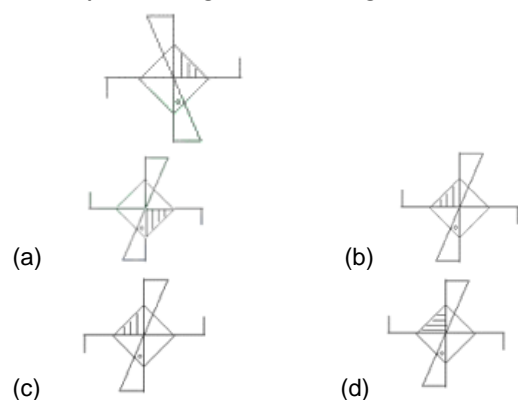
30. Ram walks 12 kms to the North, then 10 kms to West, 12 kms to South. How far is Ram from the starting points?

- (a) 9 kms (b) 13 kms
(c) 8 kms (d) 10 kms

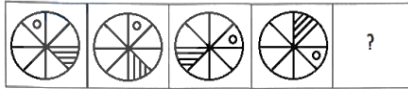
31. A paper is folded and cut as shown below. How will it appear when unfolded?







32. Identify the mirror image of the following image if mirror is placed on right side of the figure.







33. Select the figure that will come next in the following series.



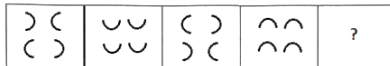
- (a)  (b) 
- (c)  (d) 





34. Select the figure in which the given figure is embedded.



- (a)  (b) 
- (c)  (d) 

35. Select the figure that will come next in the following figure series.



- (a)  (b) 
- (c)  (d) 

36. Select the mirror image of the following figure if mirror is placed on the right side of the given figure.



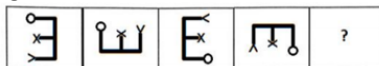
- (a)  (b) 
- (c)  (d) 

37. Select the figure in which the given figure is embedded.



- (a)  (b) 
- (c)  (d) 

38. Select the figure that will come next in the following figure series.



- (a)  (b) 

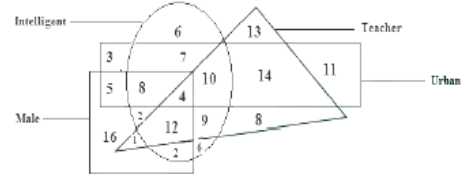


(c)



(d)

39. In the following diagram, the triangle represents 'Teachers', the circle represents 'intelligent', the rectangle represents 'Urban' and the square represents 'Males'. The numbers in different segments show the number of persons.



How many urban intelligent teachers are not male?

- (a) 12 (b) 14
(c) 10 (d) 4

40. Select the figure that will come next in the following figure series.



- (a)  (b) 
- (c)  (d) 

41. $143 : 64 :: 153 : ?$ $143 : 64 :: 153 : ?$

- (a) 45 (b) 81
(c) 53 (d) 49

42. $289 : 17 :: 961 : ?$ $289 : 17 :: 961 : ?$

- (a) 29 (b) 31
(c) 27 (d) 19

43. Select the combination of letter that when sequentially placed in the gap of the following letter series.
b _ c b _ c _ b _

- (a) bbcb (b) ccbb
(c) bbbc (d) cbc b

44. Which number will replace the question mark (?) in following series?

3, 7, 10, 17, ?, 44.

- (a) 20 (b) 19
(c) 21 (d) 27

45. Which number will replace the question mark (?) in the following series?

P2R, S3V, W4A,

- (a) B6E (b) C5G
(c) C5H (d) D5E
C5H

46. In a Code language VICTORY is written as CIVUYRO. How will CHENNEL be written as?

- (a) CHENLEN (b) CEHMLN
(c) CHEOLNE (d) EHCLEN
47. Select the number pair in which the two number are related in the same way as are the two number of the following.
24 : 30
(a) 22 : 23 (b) 24 : 28
(c) 48 : 40 (d) 30 : 38
48. Which two signs should be interchanged in the following equation to make it correct?
 $12 + 6 - 6 \div 3 \times 3 = 5$
(a) + and - (b) + and ÷
(c) - and ÷ (d) + and ×
49. If ATUL is coded as 2212011. RAMA is coded as 192120 then. How will MADE be coded as?
(a) 12236 (b) 13056
(c) 14234 (d) 14045
50. Select the number pair in which the two numbers are related in the same way as are the two number of the following number pair.
4 : 32
(a) 8 : 248 (b) 5 : 62
(c) 10 : 160 (d) 6 : 108
51. Which one of the following revolts was made famous by Bankim Chandra Chatterjee in his novel 'Anand Math'?
(a) Bhil uprising (b) Rangpur and Dinapur uprising
(c) Bishnupur and Birbhumi rebellion (d) Sanyasi rebellion
52. Who among the following started the newspaper Shome Prakash?
(a) Dayanand Saraswati (b) Ishwar Chandra Vidyasagar
(c) Raja Rammohan Roy (d) Surendranath Banerjee
53. The ruler of which one of the following States was removed from power by the British on the pretext of misgovernance?
(a) Awadh (b) Jhansi
(c) Nagpur (d) Satara
54. Where is the famous Vijaya Vittala temple having its 56 carved pillars emitting musical notes located?
(a) Belur (b) Bhadrachalam
(c) Hampi (d) Srirangam
55. During the time of which Mughal Emperor did the English East India Company establish its first factory in India?
(a) Akbar (b) Jahangir
(c) Shahjahan (d) Aurangzeb
56. Which one of the following is the subject of the Narasimhan Committee Reports of years 1991 and 1998?
(a) Administrative Reforms (b) Banking Reforms
(c) Constitutional Reforms (d) Electoral Reforms
57. Which of the following best defines a floating-rate bond?
(a) A bond with a fixed interest rate and has better yield than varying interest rate bond
(b) A bond with a fixed interest rate and has lower yield than varying interest rate bond
(c) Bond with a varying interest rate and has better yield than fixed interest rate bond
(d) A bond with a varying interest rate and has lower yield than fixed interest rate bond
58. Why the Indirect taxes are termed regressive taxing mechanisms?
(a) They are charged at higher rates than direct taxes
(b) They are charged the same for all income groups
(c) They are not charged the same for all income groups
(d) None of the above is a correct reason
59. Recently, to whom has the Maharashtra government decided to give the first 'Udyog Ratna' award?
(a) Mukesh Ambani (b) Ratan Tata
(c) Gautam Adani (d) Anil Deshmukh
60. The acronym SRO, being used in the capital market for various market participants, stands for which one of the following?
(a) Self-Regulatory Organizations (b) Small Revenue Operators
(c) Securities Roll-back Operators (d) Securities Regulatory Organisations
61. Who is called the custodian of the Constitution in India?
(a) Parliament (b) The President
(c) The Supreme Court (d) None of the above
62. Which of the following Article/Articles cannot be suspended even during emergency?
(a) Article 19 (b) Article 20 and 21
(c) Article 22 and 23 (d) Article 24 and 25
63. In the Parliament, what is the meaning of the Government Bill—
(a) Bill presented by Ruling Party member (b) Bill approved by the Government
(c) Only the Prime Minister presents the Bill (d) A Bill introduced by any Minister in either of the Houses of the Parliament
64. Under which Schedule of the Constitution every Member of Parliament takes oath or affirmation—
(a) First (b) Third
(c) Fifth (d) Sixth

65. Which country has developed world's first artificial intelligence politician named SAM?

- (a) Britain (b) New Zealand
(c) Saudi Arabia (d) Israel

66. What causes snowfall?

- (a) When condensation occurs below 0°C and precipitation occurs in the form of flakes. (b) When passing through the atmosphere, rain freezes into snow.
(c) When condensation occurs in the form of fog and precipitation occurs in the form of flakes. (d) When the air temperature is much lower than the surface temperature.

67. Which of the following is not a planetary wind?

- (a) Easterlies (b) Westerlies
(c) Drainage winds (d) Trade winds

68. The hill range that separates the State of Manipur from the State of Nagaland is known as

- (a) Arakan hills (b) Patkai hills
(c) Barail hills (d) Manipur hills

69. Which one of the following rivers flow between Vindhyan and Satpura ranges?

- (a) Narmada (b) Son
(c) Mahe (d) Netravati

70. Amravati, Bhavani, Hemavati and Kabini are tributaries of which one of the following rivers?

- (a) Mahanadi (b) Godavari
(c) Kaveri (d) Krishna

71. Which one of the following National Parks has a climate that varies from tropical to subtropical, temperate and arctic?

- (a) Khangchendzonga National Park (b) Nandadevi National Park
(c) Neora Valley National Park (d) Namdapha National Park

72. In India, in which one of the following types of forests is teak a dominant tree species?

- (a) Tropical moist deciduous forest (b) Tropical rain forest
(c) Tropical thorn scrub forest (d) Temperate forest with grasslands

73. Consider the following sanctuaries of India

- 1- Periyar
2- Dachigam
3- Sariska
4-Kanha

Which one among the following is the correct sequence of location of the above sanctuaries from South to North?

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

74. The enzyme that is present in the saliva of man is -

- (a) Pepsin (b) Renin
(c) Amylase (d) Trypsin

75. Estrogen and progesterone control and stimulate the growth of -

- (a) Pituitary gland (b) Thyroid gland
(c) Mammary gland (d) Supra renal gland

76. The membrane covering the lungs is a -

- (a) Pleura (b) Pericardium
(c) Peritoneum (d) Mesothelium

77. Scientific study of birds is known as -

- (a) Limnology (b) Herpetology
(c) Malacology (d) Ornithology

78. Most liquids that conduct electricity are solutions of acids, bases and ____.

- (a) Copper (b) Aluminium
(c) Salts (d) Iron

79. Activated Charcoal is used to remove colouring matter from pure substances by ____.

- (a) Bleaching (b) Oxidation
(c) Adsorption (d) Reduction

80. A substance which readily forms colloidal solution in contact with water is called -

- (a) Extrinsic colloid (b) Associated colloid
(c) Hydrophobic colloid (d) Hydrophilic colloid

81. The phenomena of raising the outer edge of the curved roads, above the inner edge to provide necessary centripetal force to the vehicles to take a safe turn is called ____.

- (a) Banking of roads (b) Cornering of roads
(c) Elevation of roads (d) Tempering of roads

82. For which of the following game, players must have the knowledge of Pascal's law?

- (a) Climbing (b) Paragliding
(c) Rafting (d) Scuba diving

83. What is the value of the Least Distance of Distinct vision (in cm) for a normal human being?

- (a) 2.5 (b) 25
(c) 58 (d) 60

84. Who of the following organized a march on the Tanjore coast to break the Salt Law in April 1930?

- (a) V. O. Chidambaram Pillai (b) C. Rajagopalachari
(c) K. Kamaraj (d) Annie Besant

85. Consider the following statements

1-The first woman President of the Indian National Congress was Sarojini Naidu.

2- The first Muslim President of the Indian National Congress was Badruddin Tyabji.

Which of the statements given above is / are correct?

- (a) 1 only (b) 2 only
(c) Both 1 and 2 (d) Neither 1 nor 2

86. Bamber Dance is a folk dance performed in which state?

- (a) Assam (b) Tamil Nadu
(c) Karnataka (d) Odisha

87. Singhi Chham Dance is a folk dance performed in which state?

- (a) Rajasthan (b) Madhya Pradesh
(c) Sikkim (d) Odisha

88. Who was the first Indian to won Raman-Magsaysay awardee?

- (a) Jayaprakash Narayan (b) Acharya Vinoba Bhave
(c) Baba Amte (d) Gopal Krishna Gokhale

89. Who first Indian was to won the Nobel Prize in Literature?

- (a) Jawaharlal Nehru (b) Kazi Nazrul Islam
(c) Mohandas Karamchand Gandhi (d) Rabindra Nath Tagore

90. Talcher Thermal Power station is located in which state of India?

- (a) Telangana (b) Odisha
(c) Uttar Pradesh (d) Sikkim

91. Korba Super Thermal Power Plant is located in which state of India?

- (a) Telangana (b) Odisha
(c) Uttar Pradesh (d) Chhattisgarh

92. Karaga Dance is a folk dance performed in which state?

- (a) Jharkhand (b) Jammu and Kashmir
(c) Karnataka (d) Chhattisgarh

93. Kathakali Dance is a folk dance performed in which state?

- (a) Jharkhand (b) Andhra Pradesh
(c) Tamil Nadu (d) Kerala

94. Aravalli Biodiversity Park has been declared as India's first "Other Effective Area-Based Conservation Measures" (OECM) site. In which city is the venue located?

- (a) Chandigarh (b) Guwahati
(c) Pune (d) Gurugram

95. How much amount has been provided by Exim Bank to Sri Lanka as Line of Credit (LoC)?

- (a) 400 million USD (b) USD 200 million
(c) USD 500 million (d) USD 300 million

96. Which state launched 'Bal Shramik Vidya Yojana' for child labourers who are 8-18 years old?

- (a) Madhya Pradesh (b) Haryana
(c) Punjab (d) Uttar Pradesh

97. Which of the following Bank has been nominated by Govt. for collection of donations for PM-CARES Fund?

- (a) PNB Bank (b) SBI Bank
(c) Indian Overseas Bank (d) HDFC Bank

98. Recently in which country has ADB approved a loan of 30 million USD to improve the education sector ?

- (a) Nepal (b) Sri Lanka
(c) Bhutan (d) all

99. Where has the statue of the first Finance Minister of independent India been unveiled recently ?

- (a) Chennai (b) Kochi
(c) Coimbatore (d) none

100. The Reserve Bank of India has canceled the license of the Independence Co-Operative Bank Ltd. Where is the headquarter of the bank located?

- (a) Pune (b) Nashik
(c) Kochi (d) Raipur

101. (QUES : 101 – 103)

table is given below of students having marks in various subjects. Please read the information carefully then attempt the questions.

Students	Subjects				
	Maths (out of 100)	Science (out of 150)	Hindi (out of 100)	Computer theory (out of 70)	English (out of 80)
Prithvi	90	110	80	65	70
Aslam	85	75	85	52	53
Asim	75	95	55	45	60
Pradeep	65	105	65	50	65
Prabhaskar	88	120	70	60	75

What is the percentage marks Asim did secure in all the five subjects together?

- (a) 62.5% (b) 65%
(c) 66% (d) 68%

102. In how many subjects Prithvi scored more than 80% marks?

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

103. What is the ratio of % of marks scored by Aslam in Computer to the % of marks scored in English?

- (a) 1.10:1 (b) 1.01:1
(c) 1.05:1 (d) 1.12:1

104. A shopkeeper marks his goods at a price such that after giving a discount of 20%, the gain is 33.33%. If the selling price of the good is 5600, what is the cost price of goods?

- (a) 7000 (b) 4200
(c) 2800 (d) 4900

105. What is the ratio of the mean proportion between 14.4 & 4.9 and the third proportion of 2 & 4?

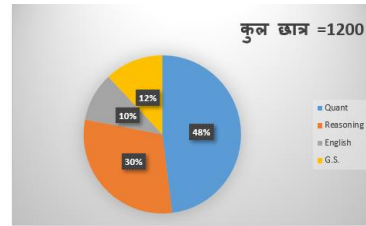
- (a) 20:21 (b) 12:21
(c) 21:20 (d) 21:12
106. Efficiency of A,B and C are in the ratio of 3:4:5. If they work together, can complete a work in 94 days. In how many days C alone complete 50% of that work?
(a) 18 (b) 12
(c) 20 (d) 15
107. If $\tan 4\alpha = \cot (960/32)^\circ$, then what is the value of $\cos 3\alpha$?
(a) $1/\sqrt{2}$ (b) $\frac{1}{2}$
(c) 1 (d) $\sqrt{3}/2$
108. The successive discount of 20%, 25% and 25% is equivalent to a single discount of?
(a) 52.5% (b) 55%
(c) 60% (d) 65% 60%
109. The sides of a triangle are 8cm, 15cm and 17cm respectively. At each of its vertices, circles of radius 3.5cm are drawn. What is the area of triangle excluding the portion covered by the sectors of the circle?
(a) 21.5 cm^2 (b) 47 cm^2
(c) 23.5 cm^2 (d) 40.75 cm^2
110. In a class of 45 students, 80% are boys and rest are girls. The average marks of girls is 45 and that of the boys is 50. What is the average marks of whole class?
(a) 45 (b) 55
(c) 50 (d) 49
111. The value of $4\frac{1}{2} - [2\frac{1}{2} - \{\frac{6}{5} - (\frac{3}{5} + \frac{6}{10} - \frac{4}{8})\}]$
(a) 2 (b) 3
(c) $2\frac{1}{4}$ (d) $2\frac{1}{2}$
112. If $x - \frac{1}{x} = 5$, then $x^3 - \frac{1}{x^3}$ is equal to ?
(a) 140 (b) 130
(c) 135 (d) 110
113. One side of a rhombus is 5 cm and one of its diagonals is 8 cm. What is the area of the rhombus?
(a) 48 cm^2 (b) 24 cm^2
(c) 40 cm^2 (d) 32 cm^2
114. The average of 20 numbers is 50. The average of first 9 numbers is 60 and the average of next 8 numbers is 45. 18th number is 7 less than the 19th number and 19th number is 1 more than the 20th number, then what is average of 18th and 20th numbers?
(a) 31 (b) 32
(c) 35 (d) 34
115. Pipes A and B can fill a tank in 8 hours and 10 hours respectively and pipe C can empty the full tank in 12 hours. All three pipes are opened together, but pipe A is

closed after 4 hours. In how many hours will the remaining part of tank be filled?

- (a) 24 (b) 30
(c) 26 (d) 22
116. From a top of a 12 m high building the angle of elevation of the top of a tower is 45° and the angle of depression of the foot of the tower is α , such that $\tan \alpha = 6/7$, what is the height of tower?
(a) 36.22 m (b) 26.22 m
(c) 36 m (d) 26 m
117. If $a^3 + b^3 = 5616$ and $a + b = 27$, then $(a-b)^2 + ab$ is equal to?
(a) 236 (b) 216
(c) 208 (d) 180
118. ABCD is a cyclic quadrilateral such that AB is the diameter of the circle circumscribing it and $\angle ADC = 145^\circ$. What is the measure of $\angle BAC$?
(a) 45° (b) 55°
(c) 65° (d) 90°
119. In an examination, 45% of candidates passed in Mathematics and 58% failed in English. If 32% failed in both the subjects then what % passed in both subjects?
(a) 55% (b) 71%
(c) 19% (d) 45%
120. $8\frac{4}{6} + [2\frac{2}{3} + \{3\frac{1}{4}(\frac{5}{3} + \frac{1}{4})\}]$ is equal to?
(a) $841/48$ (b) $849/48$
(c) $281/16$ (d) $283/16$
121. A train B speeding with 120 kmph crosses another train C, running in the same direction in 2 minutes. If the lengths of the trains B and C be 100 m and 200 m respectively, what is the speed of the train C?
(a) 111 kmph (b) 127 kmph
(c) 123 kmph (d) 129 kmph
122. If the seven digits number $84x37y6$ is divisible by 72, then what will be min value of $(x^2 + y^2 - xy)$?
(a) 39 (b) 29
(c) 37 (d) 14
123. If $(4\alpha+5)^3 + (3\alpha+6)^3 + (\alpha-9)^3 = (4\alpha+5)(\alpha+2)(9\alpha-81)$, then what is the value of 5α ?
(a) -0.25 (b) -1
(c) -0.5 (d) -1.25
124. NA and NB are two tangents from a point N outside a circle with centre O. If A & B are points on the circle that $\angle BNA = 70^\circ$, then $\angle OAB$ is equal to?
(a) 30° (b) 35°
(c) 40° (d) 45°
125. The value of $\frac{\sin 60^\circ - \cos 30^\circ + \tan^2 60^\circ}{\cos^2 60^\circ - \cot^2 60^\circ + \csc^2 30^\circ}$

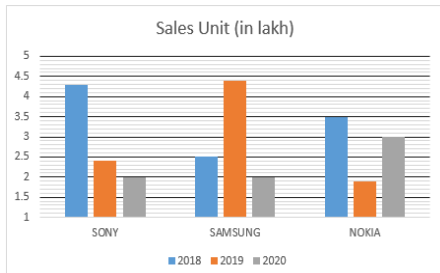
is equal to?

- (a) $3\sqrt{3}/2$ (b) $9/4$
 (c) $\sqrt{3}/2$ (d) $9/2$
126. The radius of a cylinder is increased by 130% and its height is decreased by 30%. What is the percentage increase in its volume?
- (a) 283.3% (b) 170.3%
 (c) 270.3% 2.703 (d) 183.0%
127. The income of A is 32% more than the income of B. By what % is the income of B less than the income of A?
- (a) 47.05% (b) 68%
 (c) 24.24% (d) 19.06%
128. The ratio of two positive numbers is 7:6. Their product is 6048. What is the mean of the two positive numbers?
- (a) 72 (b) 84
 (c) 78 (d) 76
129. What is the curved surface area (in m^2) of a hemisphere of height 120 cm (take $\pi=22/7$)?
- (a) 9.051 (b) 9.042
 (c) 905.1 (d) 904.2
130. 24 people can do a job in 64 days. How many people can finish half of the same job in 32 days?
- (a) 48 (b) 32
 (c) 24 (d) 72
131. The speed of a boat in still water is 12km/h. It goes 18km downstream and comes back to the starting point in 4 hours. What is the speed of the stream in km/h?
- (a) 3 (b) 3.5
 (c) 4.5 (d) 6
132. A man in a train notices that he can count 96 electric posts in one minute. If they are known to be 60 m apart, then what is the speed of the train?
- (a) 96km/h (b) 342m/s
 (c) 95km/h (d) 342km/h
133. A whole seller buys 120 kg pulse for Rs.9360. He sells 80% pulse at Rs. 70/kg. At what rate per kg should he sell the remaining pulse so that he can earn 10% profit?
- (a) Rs. 148 (b) Rs. 148.5
 (c) Rs. 140 (d) Rs. 149
134. Simple interest on a sum of Rs. 67400 for 14 months is Rs. 4718. What is the rate (in %) of interest per annum?
- (a) 4.5 (b) 5.5
 (c) 5 (d) 6
135. Find the interest on an amount of Rs. 1200 for 2 years at 20% compounded annually?
- (a) Rs. 528 (b) Rs. 630
 (c) Rs. 600 (d) Rs. 480
136. (QUES : 136 – 140)



The pie chart shows the results of an online survey which asked students about their favorite subject. Study the graph carefully and answer the following questions.

- If 50% of the number of students whose favorite subject is Quant uninstalled the TokTik App and 7:5 is the ratio of girls to boys who uninstalled the app. What is the total number of girl who uninstalled the TokTik app?
- (a) 168 (b) 144
 (c) 120 (d) 268
137. If the total amount spent on the students whose favorite subject is Reasoning was Rs.18000000, then amount spent on the students whose favorite subject is English was?
- (a) Rs. 500000 (b) Rs. 5000000
 (c) Rs. 600000 (d) Rs. 6000000
138. If the total number of student whose favorite subject is Quant is what % of the total number of student whose favorite subject is Reasoning?
- (a) 62.5% (b) 400%
 (c) 480% (d) 160%
139. If the ratio of boys to girls is 5:1 whose favorite subject is G.S., then total number of girls are?
- (a) 120 (b) 28
 (c) 24 (d) 48
140. 7 cubes, each of edge 7cm, are joined end to end. What is the total surface area of the resulting cuboid (in cm^2)?
- (a) 1470 (b) 1274
 (c) 784 (d) 1740
141. A ladder leaning against a wall makes an angle α with the horizontal ground such that $\sin\alpha=4/5$. If the foot of the ladder is 15m from the wall, then what is the height of the point where the top of the ladder touches the wall?
- (a) 15m (b) 12m
 (c) 20m (d) 25m
142. The price of sugar is decreased by 20%. By what percent can a person increase the consumption so that there is no change in the expenditure?
- (a) $\frac{100}{12}\%$ (b) $\frac{120}{12}\%$
 (c) $\frac{100}{4}\%$ (d) $\frac{120}{8}\%$
143. (QUES : 143 – 147)
 The given bar chart, shows the sales (in lakh) for sets of Mobile Phones of three companies in recent three years.



In the given bar-chart, what is a difference between the average sales of SONY and NOKIA for 3 years (in thousands)?

- (a) 5 (b) 10
(c) 8 (d) 3
144. In the given chart, if the profit earned per phone by SAMSUNG in 2019 was Rs. 981, the total profit earned was (in lakh):
(a) Rs. 2354.4 (b) Rs. 4.3164
(c) Rs. 4316.4 (d) Rs. 2.3544
145. In the given chart, what is the ratio of phone sold by SONY in year 2018 and NOKIA in 2019?
(a) 2.4:4.4 (b) 2.4:1.8
(c) 22.63:1 (d) 2.263:1
146. If $\theta + \alpha = \frac{5}{6}\pi$ and $\cos \alpha = \frac{1}{2}$ then what is the value of $\sin 2\theta$?
(a) 0 (b) $\sqrt{3}/2$
(c) $1/2$ (d) $1/\sqrt{2}$
147. A solid cylinder having radius of base as 5 cm and height as 30 cm is bisected from its height to get two identical cylinders. What will be the percentage increase in the total surface area?
(a) 13.26 (b) 14.28
(c) 15.30 (d) 16.32
148. If $x^2 - 5x + 1 = 0$, what is the value of $x^5 + \frac{1}{x^5}$?
(a) 2222 (b) 2323
(c) 2424 (d) 2525
149. What is the smallest value that must be added to 756, so that the resultant is a perfect square?
(a) 28 (b) 27
(c) 5 (d) 9
150. If 25% of a number is 8, then what is the number which is 75% more than the initial number?
(a) 64 (b) 56
(c) 32 (d) 72
151. Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'
Most astronomers believe that large quantities of some unidentified material pervade into the universe.
(a) Most astronomers believe that (b) large quantities of some unidentified

(c) material pervade into the universe. (d) No error

152. Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'
It is inconceivable that any effort to ostensibly ameliorate the fortunes of a particular group should be completely impervious to the entreaties of intended beneficiaries.
(a) It is inconceivable that any effort to ostensibly ameliorate (b) the fortunes of a particular group should be completely impervious
(c) to the entreaties of intended beneficiaries. (d) No error
153. Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'
The efforts made by the charity were aimed to provide shelters to the homeless people.
(a) The efforts made by the charity (b) were aimed to provide shelters
(c) to the homeless people (d) No error
154. Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'
The party had also raised questions about the manner in which the companies are roped in as offset partners for the deal.
(a) The party had also raised questions about the (b) manner in which the companies are roped in as
(c) offset partners for the deal. (d) No error
155. Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'
Seldom or ever have I tried my best to defend my friends, who are after all guilty to some extent.
(a) Seldom or ever have I tried my best to defend my friends, (b) who are after all guilty to some extent.
(c) who are after all guilty to some extent. (d) No error
156. Improve the bracketed part of the sentence.
(No sooner the advertisement regarding the launch of new smart phone appeared) than there was a rush on the online website for pre booking the same.
(a) No sooner the advertisement regarding the launched of new smart phone appeared (b) No sooner did the advertisement regarding the launch of new smart phone appeared
(c) The advertisement regarding the launch of new smart phone was no sooner having appeared (d) No improvement
157. Improve the bracketed part of the sentence.

If a person (studied) the history of the Maratha empire, he would have wondered how a small warrior tribe could have challenged the mighty Mughals.

- (a) has studied (b) had studied
(c) could study (d) No improvement

158. Improve the bracketed part of the sentence.
We do not (agree on) certain things.

- (a) agree to (b) agree about
(c) agree of (d) No improvement

159. Improve the bracketed part of the sentence.
(Hardly nothing) was offered to the victims of the earthquake.

- (a) Hardly something (b) Hardly anything
(c) Hardly little (d) No improvement

160. Improve the bracketed part of the sentence.
It is wishful thinking you can improve the situation by doing (with) such people.

- (a) away of (b) away with
(c) from (d) No improvement

161. (QUES : 161 – 165) Read the following passage carefully and answer the questions given below it. Certain words are given in bold to help you locate them while answering some of the questions.

Everyone constantly faces challenges-at home with our spouse, children and other family members, at work with our peers and bosses. Sometimes life itself becomes a challenge because it throws up so many relationship-based and situational challenges. But the biggest challenge of them all is one's mind. Often, it is possible to control everything else but one's mind. Being master of the mind is no less than mastery of the world. The Bhagawad Gita says, "Our mind is our best friend and our worst enemy. If we know how to manage our mind, we can manage our time, our relationships, our life, everything".

This is where spirituality comes in. It is the path to a mentally decluttered, value-based life. Spirituality teaches us to control our thoughts, emotions and desires. It is actually the science of managing one's mind.

Once we start to have control over our actions we may also find the law of attraction coming into play. Inexplicable events occur and we find things falling in place for us. They seem to be co-incidence, but that's the law of attractions working for you. You attract what you think. When you think positive you get positive results.

The central idea of the passage is

- (a) the importance of managing external challenges (b) the need to understand the law of attraction
(c) the value of spirituality in life (d) the importance of gaining control over one's mind

162. "It is possible to control everything else but one's mind" means

- (a) It is possible to control (b) It is possible to control

one's mind more than anything else

- (c) Everything else is achievable if one controls one's mind (d) Everything else is useless unless one controls one's mind

163. The word 'decluttered' in paragraph 3 means

- (a) to accumulate unnecessary things (b) to remove unnecessary things
(c) to clarify things (d) to hoard things

164. What 'seems to be coincidence'?

- (a) Events happening all around as (b) Events becoming inexplicable
(c) Events falling short of our expectations (d) Events happening according to our wishes

165. How does the law of attraction work in life?

- (a) We start feeling positive (b) We make inexplicable things happen
(c) We attract the things we desire (d) We find things falling apart

166. (QUES : 166 – 170) In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Home is the first place of education and parents are (vi) _____ teacher in everyone's life. In our childhood, we get first impression of education from our home especially from our mother. Our parents let us know the importance of (vii) _____ education in the life. When we become three or four years old, we are sent to the school for the proper, regular and (viii) _____ study where we have to give many exams and then we get a pass certificate for one class. Slowly we (ix) _____ ahead by passing our one by one class until we get passed successfully till 12th standard. Then start preparations for getting admission to the technical or professional degree which is called as (x) _____ study. Higher study is very necessary for all to get good and technical job in the life. We become a well-educated person in the life by the efforts of our parents and teachers. They are real well wishers of us who helps us in leading our life towards success.

Home is the first place of education and parents are _____ teacher in everyone's life.

- (a) first (b) last
(c) prior (d) intermediary

167. Our parents let us know the importance of _____ education in the life.

- (a) vast (b) good
(c) worst (d) bad

168. When we become three or four years old, we are sent to the school for the proper, regular and _____ study

- (a) objectional (b) relational
(c) sequential (d) constitutional

169. Slowly we _____ ahead by passing our one by one class

- (a) went (b) goes
(c) going (d) go
170. Technical or professional degree which is called as _____ study.
(a) higher (b) secondary
(c) vocational (d) proper
171. Select the correct synonym of the given word.
PUMMEL
(a) Defend (b) Surrender
(c) Whip (d) Compliment
172. Select the correct synonym of the given word.
INIMICAL
(a) Untidy (b) Harmful
(c) Funny (d) Trial
173. Select the correct synonym of the given word.
SPRUCE
(a) Lethargy (b) Elegant
(c) Scruffy (d) Ragged
174. Select the correct synonym of the given word.
PERDITION
(a) Garrison (b) Acclamation
(c) Downfall (d) Ransom
175. Select the correct synonym of the given word.
DANK
(a) Parched (b) Clammy
(c) Dry (d) Jaunty
176. Select the correct antonym of the given word.
STEADFAST
(a) Staunch (b) Pliant
(c) Ardent (d) Rigid
177. Select the correct antonym of the given word.
SIBILATE
(a) Whiz (b) Boo
(c) Exalt (d) Rasp
178. Select the correct antonym of the given word.
MAGNATE
(a) Mogul (b) Tycoon
(c) Aristocrat (d) Nonentity
179. Select the correct antonym of the given word.
IMPUGNABLE
(a) Dicey (b) Debatable
(c) Indubious (d) Hazy
180. Select the correct antonym of the given word.
SCRIMP
(c) Squander (d) Curtail
181. Select the wrongly spelt word.
- (a) dissappoint (b) disappear
(c) disallow (d) discomfort
182. Select the wrongly spelt word.
(a) blister (b) blossom
(c) blind (d) blemish
183. Select the wrongly spelt word.
(a) estimate (b) essencial
(c) esteem (d) establish
184. Select the wrongly spelt word
(a) laborious (b) mysterious
(c) courtious (d) religious
185. Select the wrongly spelt word
(a) dreamy (b) dreadful
(c) dribble (d) droughth
186. Select the option that can be used as a one-word substitute for the given group of words.
In exactly the same words as were used originally
(a) Vesper (b) Vignette
(c) Venison (d) Verbatim
187. Select the option that can be used as a one-word substitute for the given group of words.
A Person who is slow in learning
(a) Drover (b) Duncce
(c) Dower (d) Drey
188. Select the option that can be used as a one-word substitute for the given group of words.
Costing Nothing
(a) Heretic (b) Hippy
(c) Gratis (d) Hangar
189. Select the option that can be used as a one-word substitute for the given group of words.
Loop of rope
(a) Repine (b) Rankle
(c) Noose (d) Flay
190. Select the option that can be used as a one-word substitute for the given group of words.
A branch of medical science that deal with nose and its disease
(a) Phrenology (b) Cheiloscopy
(c) Osteoarthritis (d) Pulmonology
191. Select the appropriate meaning of the given idiom.
A hill of beans
(a) Pivotal part (b) A correct account
(c) A thing of little value (d) A source of amusement
192. Select the appropriate meaning of the given idiom.
To die in shoes
(a) To be murdered (b) To be excessively excited

- (c) To suicide (d) To die because of illness

193. Select the appropriate meaning of the given idiom.
Plain as pike staff

- (a) Dull (b) Very obvious
(c) Lifeless (d) Mysterious

194. Select the appropriate meaning of the given idiom.
Run down

- (a) Criticize (b) Cheerful
(c) Compromise (d) To be defeated

195. Select the appropriate meaning of the given idiom.
Brain sauce

- (a) Foolish (b) Wisdom
(c) Mentally ill (d) To hit someone on head

196. Select the most appropriate word to fill in the blank.
The current _____ in global negotiations over climate change has stalled progress on the issue.

- (a) intransigence (b) transparency
(c) stalemate (d) rigidity

197. Select the most appropriate word to fill in the blank.
During a depression even the affluent middle class struggles to _____ out a living.

- (a) make (b) eke
(c) pull (d) stretch

198. Select the most appropriate word to fill in the blank.
Nobody gets _____ with a pretentious smug.

- (a) along (b) up
(c) about (d) through

199. Select the most appropriate word to fill in the blank.
At night, the winding roads can make driving up the mountain a _____ journey.

- (a) carefree (b) beastly
(c) obnoxious (d) treacherous

200. Select the most appropriate word to fill in the blank.
Crimes against women are _____ of the deep rooted patriarchal systems of our society.

- (a) indications (b) manifestations
(c) demonstrations (d) explanations