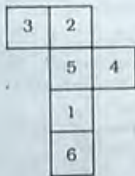


DSSSB ASSISTANT SUPERINTENDENT EXAM

Held on : 16.06.2019

MENTAL ABILITY-1

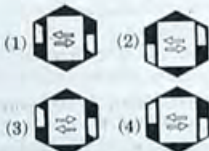
- Select the letter cluster that is related to the third letter cluster in the same way as the second letter cluster is related to the first letter cluster.
DFH : WUS :: KMO : ?
(1) WUT (2) HJL
(3) PNL (4) PNO
- Identify the odd triad from among the given number triads.
(1) 2, 7, 53 (2) 4, 6, 52
(3) 2, 4, 18 (4) 3, 5, 34
- If the following figure is folded to form a cube, which number will appear on the face opposite the number '6'?



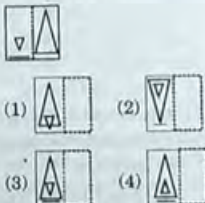
- (1) 5 (2) 3
(3) 4 (4) 2

- Five buses for five different cities Agra, Kanpur, Lucknow, Meerut and Varanasi depart from five bus terminals T-1 to T-5 but not necessarily in the same order. The Lucknow bus departs from T-2. The Varanasi bus does not depart from T-1 or T-4. The Meerut bus goes either from T-1 or T-5. The Agra bus does not leave from T-3 or T-1. The Kanpur bus leaves from T-4. From which terminal does the bus for Agra leave?
(1) T-5
(2) T-1
(3) T-3 or T-5
(4) T-3

- At the time of sunrise, Lokesh is sitting facing a pole. If the shadow of the pole falls to his right, then which direction is Lokesh facing?
(1) North (2) West
(3) South (4) East
- Identify the correct mirror image of the given figure when the mirror is placed to the right of the figure.



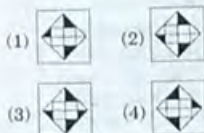
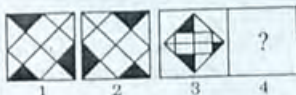
- Given here is a piece of transparent paper with some patterns on it. How will the sheet appear when it is folded along the dotted line?



- Vilas starts walking from his home and walks 30 metre towards south; from there he turns left and walks 40 metre. After that, he turns right and walks 45 metre. Then, he turns left and walks 30 metre.

Then, he turns left and walks 50 metre. Then, he finally turns left and walks 70 metre. How far is he now from his home and in which direction with reference to his home?

- (1) 25 metre, South
(2) 25 metre, North
(3) 5 metre, South
(4) 5 metre, North
- Select the figure that is related to the third figure in the same way as the second figure is related to the first figure.



- Select the word which is related to third word in the same way as the second word is related to the first word.

Court : Judgement :: Class Room : ?

- (1) Teacher (2) Education
(3) College (4) School

11. In the Venn diagram given below, the square represents 'boys', the circle represents 'tall persons', the pentagon represents 'North Indians' and the rectangle represents 'food lovers'. The numbers given in the diagram represents the number persons of that particular category.



How many North Indian boys are tall persons but are NOT food lovers?

- (1) 12 (2) 25
(3) 13 (4) 16
12. Identify the correct water image of the combination given below.

MAINSTREAM

- (1) **WARTSIVIA**
(2) **IAMIMMARETS**
(3) **MAERTSIVIA**
(4) **WARTSIVIA**
13. Select the number that is related to the third number in the same way as the second number is related to the first number.

8 : 128 :: 10 : ?

- (1) 200 (2) 100
(3) 128 (4) 228
14. Pick the odd one out.
- (1) Cuba (2) Oslo
(3) Fiji (4) Kyat
15. Pick the number that is different than the rest.
- (1) 29 (2) 37
(3) 31 (4) 33

16. Three different positions of the same dice are shown below. Which number is on the face opposite to the face showing the number 3?



- (1) 1 (2) 5
(3) 2 (4) 4

17. Select the term that is related to the third term in the same way as the second term is related to the first term.

BDF : 48 :: FHJ : ?

- (1) 480 (2) 180
(3) 240 (4) 90

18. Which of the following option figures will replace the question mark (?) in the figure given below to complete the pattern of the figure?

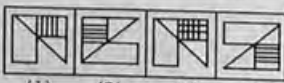


- (1) (2)
(3) (4)

19. Six friends Gopal, Sheela, Reena, Senthil, Hina and Gaurav and standing in a row. There are two persons between Sheela and Hina. Reena is between Hina and Senthil. Only one person is standing before Gopal. Gaurav is between Gopal and Hina, who is third from the back end of the row. Which two persons are standing between Sheela and Hina?

- (1) Gopal and Reena
(2) Senthil and Reena
(3) Gaurav and Senthil
(4) Gopal and Gaurav

20. Four figures marked 1, 2, 3 and 4 are given below. Three of the given figures are similar in a certain manner while one figure is not like the other three. Choose the figure which is different from the other figures.



- (1) (2) (3) (4)

MENTAL ABILITY-2

21. Jiva is the daughter of Kartik.

Kartik has two sons. Adah is the daughter of Mridula, who is the wife of Kartik's son. Veenu is Prem's mother. Prem is the brother of Ashok, who is the father of Adah. How is Adah related to Veenu?

- (1) Daughter
(2) Sister
(3) Grand-daughter
(4) Mother

22. In a code language, POSSIBLE is coded as 16 15 19 19 9 2 12 5. How would SERVICE be coded in the same language?

- (1) 1951821935
(2) 1951822935
(3) 1951722935
(4) 1951822835

23. Which of the addresses given as options is exactly the same as the address given below?

P Narsinh Kumar Raghavan,
House no. 5432/1, Silver Paradise

King Square, Nemesis Road,
Thiruchirapalli - 562025

- (1) P Narsinh Kumar Raghavan
House no. 5432/1, Silver Paradise
Kings square, Nemesis Road,
Thiruchirapalli - 562 025
- (2) P Narsinh Kumar Raghavan
House No. 5432/1, Silver Paradise
Kings Square, Nemesis Road,
Thiruchirapalli - 562 025
- (3) P Narsinh Kumar Raghavan
House No. 5432/1, Silver Paradise
Kings Square, Nemesis Road,
Thiruchirapali - 562 025
- (4) P Narsinh Kumar Raghavan
House No. 5432/1, Silver Paradise
Kings Square, Nemesis Road,
Thiruchirapalli - 562 025

24. How many triangles are present in the figure given below?



- (1) 21 (2) 22
(3) 18 (4) 20

25. Read the given information and answer the question that follows.

- A + B means 'A is the father of B'
- A - B means 'A is the husband of B'
- A × B means 'A is the daughter of B'
- A ÷ B means 'A is the sister of B'

If $P + M + Q \times N \times T - U$, then how is P related to N?

- (1) Son (2) Brother
(3) Uncle (4) Husband

26. Six numbers are given below, two of which are the same. Find the two numbers that are the same.

- (A) 254879381
(B) 254879831
(C) 254897381
(D) 254897381
(E) 254897831
(F) 258497381

- (1) C and E (2) A and B
(3) C and D (4) E and F

27. There are five boxes : A, B, C, D and E. Box B is twice as heavy as box A. Box C is 20 kg heavier than box E. Box D is one-and-half times as heavy as box E, and box C is four times as heavy as box A. The weight of box E is 20 kg. Which of the boxes is the heaviest of them all and what is its weight?

- (1) D, 60 kg (2) C, 60 kg
(3) D, 40 kg (4) C, 40 kg

28. If in a code language, MAGNIFICENT is written as JOHBNFUOFDJ. How would PROMISCUITY be written in the same language?

- (1) JNPSQSZUJVD
(2) JNSPQIZUJVD

(3) JNPSQJAUJVD

(4) JNPSQJUZVD

29. The total of three numbers is 120. The second number is two times the first number. The third number is three times the first number. What is the third number?

- (1) 40 (2) 50
(3) 60 (4) 80

30. Select the number that will come next in the following series.

- 15, 19, 28, 44, 69, ?
(1) 105 (2) 99
(3) 100 (4) 103

31. Three statements are followed by four Conclusions numbered I, II, III and IV. Assuming the information given in the statements to be true, even if they do not conform to real-world knowledge, decide which of the Conclusions logically follow(s) from the statements.

Statements :

1. All girls are experts.
2. Some experts are tourists.
3. All tourists are foreigners.

Conclusions :

- I. Some foreigners are experts.
- II. Some foreigners are girls.
- III. No foreigner is a girl.
- IV. All tourists are experts.

- (1) Conclusion I and either II or III follow
- (2) All Conclusions follow
- (3) Conclusions I, II and IV follow
- (4) Conclusion IV and either II or III follow

32. Select the Venn diagram that best represents the relationship between the given set of classes.

Men, Gynaecologist, Doctor

- (1) (2)
(3) (4)

33. Two statements are followed by two Conclusions numbered I and II. Assuming the information given in the statement

to be true, even if they do not conform to real-world knowledge, decide which of the Conclusions logically follow(s) from the statements.

Statements :

1. All officers are singers.
2. Some singers are musicians.

Conclusions :

- I. Some singers are officers.
- II. No singer is an officer.

- (1) Either Conclusion I or II follows
- (2) Both Conclusions I and II follow.
- (3) Only Conclusion II follows
- (4) Only Conclusion I follows

34. There are five teachers named A, B, C, D and E. Each of them teaches one of five different subjects i.e. Physics, Chemistry, Botany, Zoology and Mathematics. C does not teach Botany, Chemistry or Physics. A does not teach Botany or Zoology. Mathematics is taught by B. E does not teach Chemistry or Botany. Who teaches Physics?

- (1) A or C (2) E
(3) A (4) A or E

35. Six symbol clusters are given below, two of which are the same. Find the two clusters that are exactly the same.

- (A) & % \$ # % \$ % # & % \$
(B) & % \$ & % \$ @ # & % \$
(C) & % \$ @ % \$ @ # & % \$
(D) & % \$ # % \$ @ # % \$
(E) & % \$ # % \$ @ # % \$
(F) & % \$ # % \$ @ # & % \$
(1) B and C (2) E and F
(3) A and D (4) C and D

36. Select the number that will come next in the following series.

- 40, 20, 20, 30, 60, ?
(1) 130 (2) 110
(3) 150 (4) 140

Directions (37-38) : The following are the criteria set by a company for the post of Accounts Manager.

1. The candidate must have a Master of Commerce (M. Com) degree in Accountancy.

2. The candidate must be obtained more than 65% marks in the written test and 70% marks in the interview.
3. The age of candidate should not be less than 30 years and not more than 35 years as on 1 April 2019.
4. The candidate must have at least five years' work experience as an Accountant.
- (a) If a candidate satisfies all the criteria except criteria No. 1 as given above, but has completed a Master of International Business (MIB) course, she/he must be sent to the Head (Accounts) for further interview.
- (b) If a candidate satisfies all the criteria except criteria no. 2, but has more than six years of work experience as an Accountant, then the candidate must be sent to the Senior Accounts Manager for further interview.

The details of a candidate are given below. You have to take one of the following decisions based on the information provided and the conditions and sub-conditions given above. Do not assume anything other than the information provided in the question.

37. Manav has completed his M. Com degree in Accountancy. He also has an MIB degree. He has five years' experience working as an Accountant. He was born on 13 May, 1987. He obtained 66% marks in the written test and 70% marks in the interview.

- (1) The candidate is to be selected.
- (2) The candidate is to be sent to the Senior Accounts Manager for further interview.
- (3) The candidate is to be rejected.
- (4) The candidate is to be sent to the Head (Accounts) for further interview.
38. Rachana has completed an MIB degree with 54%. She has four years' experience working as an Accountant. She was

born on 2 June, 1986. She obtained 66% marks in the written test and 70% marks in the interview.

- (1) The candidate is to be selected.
- (2) The candidate is to be rejected.
- (3) The candidate is to be sent to the Head (Accounts) for further interview.
- (4) The candidate is to be sent to the Senior Accounts Manager for further interview.
39. Select the letter cluster that will come in place of the question mark (?) in the following series.

FNV, CJQ, ZFL, ?, TXB

- (1) VBG (2) WCH
(3) WBG (4) WCG

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



- (1) (2)
(3) (4)

GENERAL AWARENESS-1

41. This institute was founded in 1878 as the British imperial Forest School. It is now called the Forest Research Institute (FRI). Where is it located?
- (1) Dehradun
(2) Nainital
(3) Darjeeling
(4) Rishikesh
42. The Salar De Uyuni salt desert of Bolivia is supposed to be the home of 50-70% of the reserves of:
- (1) Uranium (2) Thorium
(3) Lithium (4) Silver
43. What is the name of the visa that enables you to travel to 23 European countries?
- (1) Euro Visa
(2) Europe Visa

- (3) Baltic Visa
(4) Schengen Visa

44. Which of these Tamil Nadu-based freedom fighters earned the title of 'Kappalottiya Tamilian' (The Tamilian who ran a shipping company)?
- (1) V. O. Chidambaram Pillai
(2) Dheeran Chinnamalai
(3) Subramaniya Siva
(4) Veerapandiya Kattabomman
45. The devastating Latur earthquake (Maharashtra) happened in which year?
- (1) 2004 (2) 1999
(3) 1989 (4) 1993
46. The electoral bonds that facilitate making donations to political parties was announced in which Union Budget?
- (1) Union Budget 2016-17
(2) Union Budget 2017-18
(3) Union Budget 2015-16
(4) Union Budget 2018-19
47. The Christian festival of Easter always falls on which day?
- (1) Wednesday
(2) Thursday
(3) Friday
(4) Sunday
48. The ever popular antiseptic product called Dettol is a brand owned by which of these companies?
- (1) ITC Group
(2) Jyothi Laboratories
(3) Reckitt Benckiser Group
(4) Marico Group
49. The SGSI is a geostationary satellite that has been launched from French Guiana on behalf of another country. To which country does the SGSI satellite belong?
- (1) Singapore
(2) South Africa
(3) Saudi Arabia
(4) South Korea
50. In the National Institutional Ranking Framework (NIRF) 2019 ranking, name the college that got the top ranking. This college completes a hat-trick in #1 ranking in 2019.

- (1) Lady Sri Ram College for Women, Delhi University.
 (2) St. Stephens College, Delhi University.
 (3) Hindu College, Delhi University.
 (4) Miranda House, Delhi University.
51. The Ahom Empire flourished in which part of India in the 13th century?
 (1) Southern India
 (2) Eastern India
 (3) Western India
 (4) Northern India
52. John Dalton, the pioneering atomic theory scientist, was born in which country?
 (1) Netherlands
 (2) England
 (3) Austria
 (4) France
53. The Bombay High Court has three bench courts. Which of the 4 cities listed below is NOT one of the benches of the Bombay High Court?
 (1) Nagpur (2) Panaji
 (3) Pune (4) Aurangabad
54. Among the 4 pairs of Bollywood music directors listed, one pair are blood brothers. Name this sibling pair.
 (1) Lakshmikanth - Pyarelal
 (2) Nadeem - Shruvan
 (3) Kalyanji - Anandji
 (4) Shankar - Jaikishen
55. Which of the following is not a wind instrument?
 (1) Oboe (2) Sarod
 (3) Shehnai (4) Flute
56. If you see a sign '5T' while driving on an Indian road, what does that road sign mean?
 (1) 5 km is the speed limit of the road ahead.
 (2) A signal with 5 roads branching out is coming ahead.
 (3) Vehicles weighing more than 5 tonnes should not use the road.
 (4) There are 5 turns ahead of the road.

57. Which of these High Court's bench courts operates from Port Blair and is the apex body of the judiciary of Andaman and Nicobar?
 (1) Madras High Court
 (2) Calcutta High Court
 (3) Telangana High Court
 (4) Patna High Court
58. The city of Strasbourg is the official seat of the European Parliament. In which European country is Strasbourg located?
 (1) France (2) Austria
 (3) Belgium (4) Switzerland
59. The Security Printing and Minting Corporation of India Limited (SPMCL) has got its own Security Paper Mill that produces the paper for bank notes. Where is the Security Paper Mill located?
 (1) Kolkata, West Bengal
 (2) Dewas, Madhya Pradesh
 (3) Nashik, Maharashtra
 (4) Hoshangabad, Madhya Pradesh
60. The condition called leucoderma affects which of these human body parts?
 (1) Skin
 (2) Blood
 (3) Heart
 (4) Nervous system

GENERAL AWARENESS-2

61. The United Nations Conference on Trade and Development (UNCTAD) is a permanent intergovernmental body established by the United Nations to deal with trade, investment and development issues. Where is its headquarters?
 (1) New York (2) Brussels
 (3) Geneva (4) Paris
62. Which city in Central India is famous for its 'Diamond Railway Crossing', a point where the North-South Railway lines meet the East-West Railway lines?
 (1) Indore (2) Nanded
 (3) Nagpur (4) Bhopal

63. What is the name for the Spanish and Portuguese Parliaments? The name has been derived from their common medieval history.
 (1) Caldera (2) El Paso
 (3) Duma (4) Cortes
64. Eugenics is the study of the agencies under social control that may improve or impair the racial qualities of future generations either physically or mentally. Who is considered the father of this stream of study?
 (1) Charles Darwin
 (2) David Baltimore
 (3) Raymond Dart
 (4) Francis Galton
65. What is the colour that is prescribed for school buses in India?
 (1) Green (2) Blue
 (3) Yellow (4) Red
66. The Warangal Fort, whose ornamental gate is now the official emblem of the Telangana state, was built by which of these dynasties?
 (1) Vijayanagara Dynasty
 (2) Chandela Dynasty
 (3) Kakatiya Dynasty
 (4) Rashtrakuta Dynasty
67. India conducted joint military exercise called 'BOLD KURUKSHETRA 2019' in April 2019 with which country?
 (1) Singapore
 (2) Russia
 (3) Israel
 (4) Iran
68. According to Hindu mythology, which of the following weapons is associated with Lord Parashurama? Kerala was born by Bhagwan Parashurama throwing this weapon in the Arabian Sea.
 (1) Bludgeon
 (2) Bow and arrow
 (3) Sword
 (4) Axe
69. The Yypeen Island is a bustling and densely populated island in the Arabian Sea very near the Indian coast. Near which of these cities is Yypeen situated?

- (1) Trivandram
 (2) Calicut
 (3) Mangalore
 (4) Kochi
70. The three laws - Boyle's Law, Charles Law and Gay-Lussac's Law - come in the realm of which of these studies in physics?
 (1) Study of atoms
 (2) Study of radioactivity
 (3) Study of gases
 (4) Study of light
71. Though Spanish is the most widely spoken language, this country is also home to languages such as Nahuatl, Yucatec Maya and Mixtec. Which country is being referred to here?
 (1) Bolivia (2) Argentina
 (3) Mexico (4) Chile
72. Name the telescope that has recently created the live image of the black hole.
 (1) Event Horizon Telescope
 (2) Keck Observatory Telescope
 (3) Hubble Space Telescope
 (4) Spitzer Space Telescope
73. Name the economist who has been closely associated with the theory of monetarism.
 (1) John Maynard Keynes
 (2) Adam Smith
 (3) Joseph Stiglitz
 (4) Milton Friedman
74. From which country's embassy in London was the WikiLeaks founder Julian Assange arrested in April 2019?
 (1) Bolivia (2) Venezuela
 (3) Ecuador (4) Columbia
75. One set of digits in the GST number is a direct replication of which of these identities of the GST holder?
 (1) PAN Card Number
 (2) Ration Card Number
 (3) Aadhaar Card Number
 (4) Mobile Number
76. In which year was the Postal Index Number (PIN) or PIN code system started in India?
 (1) 1947 (2) 1972
 (3) 1950 (4) 1998

77. Which of these combinations of countries add up to form the Iberian Peninsula?
 (1) Today's Iraq and Syria
 (2) Today's Spain and Portugal
 (3) Today's North and South Korea
 (4) Today's Uruguay and Argentina
78. On which day of the year does the World Health Organization (WHO) celebrate the World Health Day?
 (1) 7th March
 (2) 7th April
 (3) 7th February
 (4) 7th January
79. The place Broadway and its world-famous theatre shows are synonymous with which of these great cities?
 (1) London (2) Chicago
 (3) New York (4) Paris
80. In which city of India is the India Diamond Institute (IDI) situated?
 (1) Vadodara (2) Bangalore
 (3) Mumbai (4) Surat

ARITHMETIC ABILITY-1

81. Find the value of x in the following equation.

$$\frac{27.48 - x}{3.5 \times 0.3} = 20$$
 (1) 7.48 (2) 3.68
 (3) 6.48 (4) 9.78
82. The value of $(0.3 \times 0.3 - 0.02)(0.2 \times 0.2 + 0.01)^{-1}$ is equal to;
 (1) 1.45 (2) 1.70
 (3) 1.40 (4) 0.40
83. Which one number would replace both the question marks in the following equation?

$$\frac{38}{?} = \frac{?}{342}$$
 (1) 118 (2) 124
 (3) 114 (4) 144
84. The containers A and B have mixtures of milk and water in the ratios of 3 : 5 and 7 : 9 respectively. If equal quantities from both the containers are mixed to form a new mixture

what will be ratio of milk and water in the new mixture?

- (1) 5 : 7 (2) 13 : 17
 (3) 5 : 9 (4) 13 : 19
85. A shopkeeper purchased 30 kg of wheat at Rs. 30 per kg and mixed it with 40 kg of wheat which was purchased at Rs. 20 per kg. At what approximate rate should he sell the mixture to gain a profit of 10%?
 (1) Rs. 24.15 (2) Rs. 28.26
 (3) Rs. 31.25 (4) Rs. 26.71
86. If 30% of 25% of $\frac{5}{7}$ of $x = 105$, what is the value of x ?
 (1) 1760 (2) 1660
 (3) 1880 (4) 1960
87. Find the greatest number which when divides 295, 403 and 547 will leave 7 as the remainder in each case.
 (1) 18 (2) 64
 (3) 36 (4) 48
88. The average weight of 12 girls is 6 kg less than the average weight of 18 boys. If the total weight of 12 girls is 276 kg, what is the average weight of 12 girls and 18 boys taken together?
 (1) 25.4 kg. (2) 27.2 kg.
 (3) 28.8 kg. (4) 26.6 kg.
89. An aggregate of 36% of the total marks is required to pass an examination and 60% to get a first class. A student scored 298 marks and failed by 26 marks. How many marks should he have secured to get a first class?
 (1) 420 (2) 480
 (3) 540 (4) 560
90. Solve the following:

$$\left[\frac{8(265)^3 - 1}{(53)^2 + 63} \right] = ?$$
 (1) 5.35 (2) 3.35
 (3) 6.45 (4) 3.30
91. In an examination, the average marks of a student per paper were 72. If he would have secured 15 more marks in Mathematics and 17 more marks in History, his average

marks per paper would have been 75.2. How many papers were there in the examination?

- (1) 12 (2) 8
(3) 11 (4) 10

92. The HCF of $\frac{2}{3}$, $\frac{3}{5}$, $\frac{5}{8}$ and $\frac{8}{9}$ is :

- (1) $\frac{1}{180}$ (2) $\frac{1}{60}$
(3) $\frac{1}{120}$ (4) $\frac{1}{360}$

93. If $2.5 \times (3 + 5) - 18 + x = 4$, then the value of x is :

- (1) 1.25 (2) 0.88
(3) 0.50 (4) 1.125

94. An amount of Rs. 1,268 is to be divided among A, B and C such that their shares when reduced by Rs. 7, Rs. 12 and Rs. 17 respectively would be in the ratio of 2 : 5 : 7. What is B's share?

- (1) Rs. 452 (2) Rs. 633
(3) Rs. 181 (4) Rs. 582

95. Find the greatest four-digit number that will leave remainders 5, 6, 12 and 17, when divided by 8, 9, 15 and 20 respectively.

- (1) 9728 (2) 9993
(3) 9723 (4) 8723

96. If $x : y = 5 : 3$, find the value of

$$\frac{8x + 5y}{7x - 5y}$$

- (1) $1\frac{1}{2}$ (2) $2\frac{1}{4}$
(3) $2\frac{3}{4}$ (4) $3\frac{3}{4}$

97. If the numerator of a fraction is decreased by 20% and the denominator is increased by 25%, the value of the fraction

becomes $\frac{4}{7}$. What is the original fraction?

- (1) $\frac{25}{28}$ (2) $\frac{30}{49}$
(3) $\frac{15}{17}$ (4) $\frac{25}{32}$

98. Solve the following :

$$9.25 - \frac{8.5}{1 + \frac{1}{2 + \frac{1}{4}}}$$

- (1) 2.75 (2) 2.50
(3) 3.65 (4) 3.25

99. The average score of a class in a test was 56. The average score of the brightest 25% students was 80 and the average score of the duller 35% students was 30. If the ratio of the boys and girls in the remaining 40% of students was 2 : 3 and the average score of the boys in this remaining group was 60, what was approximately the average score of the girls in the remaining 40%?

- (1) 62.40 (2) 68.75
(3) 66.25 (4) 60.20

100. If $\frac{1}{4} : \frac{1}{x} = \frac{1}{2} : \frac{18}{49}$, what is the value of x ?

- (1) $2\frac{2}{3}$ (2) $2\frac{1}{3}$
(3) $3\frac{1}{3}$ (4) $1\frac{2}{3}$

ARITHMETIC ABILITY-2

101. The length of a rectangle is twice its breadth. If its length as well as breadth is increased by 5 cm, its area increases by 250 cm². What is the length of the rectangle?

- (1) 30 cm (2) 34 cm
(3) 16 cm (4) 24 cm

102. A man takes 6 hours 30 minutes to walk from A to B and then drive back from B to A. He would have gained 2 hours if he would have driven both ways. How long would the man take to walk both ways?

- (1) 8 hours 15 minutes
(2) 7 hours 45 minutes
(3) 9 hours 30 minutes
(4) 8 hours 30 minutes

103. The simple interest on a sum of money at 10% per annum for 2 years is Rs. 2,400. Compounded annually, what would be the compound interest on the same sum for the same period at the same rate of interest?

- (1) Rs. 2,450 (2) Rs. 2,620
(3) Rs. 2,520 (4) Rs. 2,580

104. A 50-cm-wide path is made around a circular garden having a diameter of 10m. What is approximately the area of the path?

- (1) 13.35 m² (2) 32.20 m²
(3) 18.85 m² (4) 16.50 m²

Directions (105-107): The following pie chart shows the percentage distribution of a total of 400 employees in different departments of a company. The table shows the ratio of male to female employees in different departments. Study the chart and the table and answer the questions that follow.

% of employees in different departments



Departments	Male : Female
HR	3 : 5
IT	2 : 3
Accounts	3 : 7
Marketing	7 : 4
Production	5 : 3

105. What is the total number of female employees in the Marketing department?

- (1) 45 (2) 32
(3) 36 (4) 56

106. If 40% of the male employees and 60% of the female employees in each department are executives, what is the ratio of male non-executives to female non-executives in the Accounts department?

- (1) 9 : 11 (2) 9 : 14
 (3) 4 : 7 (4) 7 : 11

107. What is the ratio of the number of female employees to that of the male employees in the IT and Marketing departments taken together?

- (1) 17 : 20 (2) 17 : 19
 (3) 7 : 15 (4) 13 : 17

108. A man is twice as efficient as a boy. If 1 man and 1 boy can complete a piece of work in 12 days, how many days would a man alone take to complete the same work?

- (1) 16 days (2) 36 days
 (3) 24 days (4) 18 days

109. A car covers the first 42 km of a journey in 40 minutes and the remaining 48 km in 60 minutes. What is the average speed of the car?

- (1) 48.5 km/h
 (2) 47 km/h
 (3) 51 km/h
 (4) 52.5 km/h

110. A sum of Rs. 1,250 was lent out in two parts, one at 12% simple interest and another at 8% simple interest. If the total sum after one year was Rs. 1,382, find the amount lent out at 8% interest.

- (1) Rs. 800 (2) Rs. 650
 (3) Rs. 700 (4) Rs. 450

111. The difference between the compound interest and simple interest on a certain sum of money at 10% interest per annum for 2 years is Rs. 185. What is the sum?

- (1) Rs. 18,500
 (2) Rs. 22,500
 (3) Rs. 24,500
 (4) Rs. 37,000

112. By selling an article for Rs. 1,744, a seller earns a profit of 20% more than the loss he would have incurred if he had sold the article for Rs. 1,480. What is the price of the article?

- (1) Rs. 1,850 (2) Rs. 1,400
 (3) Rs. 1,600 (4) Rs. 1,700

Directions (113-114): The following table shows the total number of students studying in various colleges over six years. Study the table and answer the questions that follow.

Year	College			
	A	B	C	D
2013	325	410	210	320
2014	270	380	260	340
2015	420	440	310	410
2016	360	260	250	260
2017	275	350	340	360
2018	350	360	230	310

113. What is the ratio of the total number of students studying in college C to that in D over the six years?

- (1) 2 : 3 (2) 4 : 5
 (3) 5 : 6 (4) 4 : 7

114. If the ratio of the boys to the girls studying in college B over the given years is 2 : 3 and that in college D is 3 : 2, what is the ratio of the number of boys in college B to the number of girls in college D?

- (1) 10 : 11 (2) 17 : 15
 (3) 33 : 20 (4) 11 : 10

115. By selling 78 apples, a fruit seller gains the selling price of 18 apples. What is his gain per cent?

- (1) 30% (2) 23.7%
 (3) 33.3% (4) 25%

116. A cyclist covers the four sides of a square field at speeds of 10, 15, 20 and 25 km per hour. What is approximately the average speed of the cyclist around the field?

- (1) 15.58 km/h
 (2) 13.84 km/h
 (3) 17.50 km/h
 (4) 19.55 km/h

117. At simple interest, a certain sum of money amounts to Rs. 1,488 in 2 years and to Rs. 1,776 in 4 years. Find the sum.

- (1) Rs. 1,200 (2) Rs. 1,450
 (3) Rs. 900 (4) Rs. 1,600

118. 4 men and 9 boys can complete a piece of work in 3 days, while 2 men and 6 boys can do the same work in 5 days. How many days would 8 men

and 6 boys take to complete the same work?

- (1) 3.5 days (2) 2 days
 (3) 1.5 days (4) 2.5 days

119. A certain sum amounts Rs. 1,320 after 2 years and to Rs. 1,760 after 4 years on compound interest. What is the sum?

- (1) Rs. 1,200 (2) Rs. 1,120
 (3) Rs. 990 (4) Rs. 1,080

120. The circumference of the base of a right circular cylinder is 88 cm and its curved surface area is 1320 cm². What is volume?

- (1) 8640 cm³ (2) 6420 cm³
 (3) 7520 cm³ (4) 9240 cm³

GENERAL ENGLISH-1

121. Select the option that expresses the given sentence in passive voice.

She has submitted all the required documents on time.

(1) All the required documents has been submitted on time.

(2) All the required documents were submitted on time.

(3) The submission of all the required documents was done on time.

(4) All the required documents have been submitted on time.

122. Select the most appropriate conjunction to fill in the blank. He is himself not too well off; _____ he never disappoints friends in need.

- (1) and
 (2) nevertheless
 (3) otherwise
 (4) although

123. Parts of the following sentence are given as options. Identify the part that has an error.

Organic farming strikes a healthy balance across the traditional and modern knowledge.

- (1) a healthy balance
 (2) across the traditional
 (3) organic farming strikes
 (4) and modern knowledge

124. Select the most appropriate preposition to fill in the blank. Please ponder ___ the problem carefully to find a solution.

- (1) over (2) at
(3) through (4) with

125. Select the alternative that will improve the **bold** part of the sentence. In case no improvement is needed, select 'No improvement'.

Activists have criticised the forest department **for failure to forming** the Aravalli protection task force.

- (1) No improvement
(2) to fail in forming the
(3) in failing to form the
(4) for failing to form the

126. Select the option that expresses the given sentence in direct speech.

Aanya told me that my painting would win me the first prize.

- (1) Aanya said to me, "Your painting would win the first prize."
(2) Aanya said to me, "My painting will win me the first prize."
(3) Aanya said to me, "Your painting will win you the first prize."
(4) Aanya told to me, "My painting will win me the first prize."

127. Select the most appropriate preposition to fill in the blank. The murderer was condemned ___ life imprisonment.

- (1) by (2) for
(3) to (4) of

128. Select the option that expresses the given sentence in passive voice.

Water the plants regularly lest they die.

- (1) Let the plants be watered regularly lest they die.
(2) The plants should be watered regularly lest they die.
(3) The plants be watered regularly lest they die.
(4) Let the plants to be watered regularly lest they die.

129. Select the option that expresses the given sentence in active voice.

A special edition of this magazine will be brought out early next year.

- (1) They are bringing out a special edition of this magazine early next year.
(2) Thy brought out a special edition of this magazine early next year.
(3) They will bring out a special edition of that magazine early next year.
(4) They will bring out a special edition of this magazine early next year.

130. Select the most appropriate conjunction to fill in the blank. She cannot hope for a promotion ___ her performance improves drastically.

- (1) lest (2) if
(3) yet (4) until

131. Select the most appropriate synonym of the given word. CURTAIL

- (1) Abort (2) Abstain
(3) Shorten (4) Expand

132. Select the option that expresses the given sentence in active voice.

Sweets were being distributed among the staff on the occasion of Diwali.

- (1) They distributed sweets among the staff on the occasion of Diwali
(2) They are distributing sweets among the staff on the occasion of Diwali.
(3) They will be distributing sweets among the staff on the occasion of Diwali.
(4) They were distributing sweets among the staff on the occasion of Diwali.

133. Select the option that expresses the given sentence in direct speech.

Mr. Das exclaimed joyfully that his daughter had won the table tennis championship.

- (1) Mr. Das said, "What! My daughter has won the table tennis championship?"

(2) Mr. Das said, "Oh! My daughter wins the table tennis championship."

(3) Mr. Das said, "Alas! His daughter has won the table tennis championship."

(4) Mr. Das said, "Hurrah! My daughter has won the table tennis championship."

134. Select the most appropriate ANTONYM of the given word.

FICKLE

- (1) Gentle (2) Fresh
(3) Wicked (4) Constant

135. Select the alternative that will improve the **bold** part of the sentence. In case no improvement is needed, select 'No improvement'.

No sooner did she leave the house when the burglar broke in.

- (1) left the house when the burglar broke in
(2) No improvement
(3) left the house but the burglar broke in
(4) leave the house than the burglar broke in

136. Select the most appropriate synonym of the given word.

APPALLING

- (1) Ridiculous
(2) Attractive
(3) Charming
(4) Terrifying

137. Select the most appropriate synonym of the given word.

VENERABLE

- (1) Forceful
(2) Respectable
(3) Miserable
(4) Contagious

138. Select the option that expresses the given sentence in reported speech.

You said, "I checked all my drawers but couldn't find the car keys."

- (1) You said that you checked all your drawers but couldn't find the car keys.
(2) You said that you had checked all your drawers but couldn't find the car keys.

GENERAL ENGLISH-2

- (3) You said that I checked all my drawers but couldn't find the car keys.
- (4) You said that you checked all my drawers but couldn't find the car keys.
139. Parts of the following sentence are given as options. Identify the part that has an error.
The frequent occurrence of torrential rains and floods make disaster management very important.
- (1) of torrential rains and floods
(2) very important
(3) The frequent occurrence
(4) make disaster management
140. Select the option that expresses the given sentence in reported speech.
The policeman said to the suspect, "Where were you at this time yesterday?"
- (1) The policeman asked the suspect where was he at this time the previous day.
(2) The policeman asked the suspect that where he was at this time yesterday.
(3) The policeman asked the suspect where he was at that time the previous day.
(4) The policeman asked the suspect where was he at that time yesterday.

141. Select the most appropriate meaning of the following idiom.

Pull the strings

- (1) To manipulate
(2) To reduce speed
(3) To be very frank
(4) To be frank

142. Select the grammatically correct sentence from the given options.

- (1) Household duties prompted her to take a break from work.
(2) Her household duties prompted to take a break from work.
(3) A break from work prompted to take her household duties.
(4) Household duties prompted to take a break from her work.

143. Select the option that can be used as a one-word substitute for the given group of words.

One who hates mankind

- (1) Misanthrope
(2) Misogynist
(3) Mianomer
(4) Malevolent

144. Select the most appropriate ANTONYM of the given word.
SURPLUS

- (1) Abundant (2) Deficit
(3) Decrease (4) Sufficient

Directions (145-146) : Select the option that can be used as a one-word substitute for the given group of words.

145. **One who eats too much**

- (1) Hungry (2) Glutton
(3) Ravenous (4) Greedy

146. **To preserve from extinction**

- (1) Perplex (2) Perpetuate
(3) Perturb (4) Persuade

147. Select the most appropriate phrase to fill in the blank.

The mechanic _____ repairing the machine immediately.

- (1) set off (2) set up
(3) set about (4) set on

148. Select the most appropriate phrase to fill in the blank.

The doctor said there was nothing serious and the patient would _____ soon.

- (1) come up
(2) come upon
(3) come round
(4) come over

149. Select the most appropriate meaning of the following idiom.

Order of the day

- (1) Sentence passed by a judge
(2) Condition prevailing at the time
(3) A state of uncertainty
(4) An impossible situation

150. Select the most appropriate meaning of the following idiom.

Make much ado about nothing

- (1) To treat as unimportant
(2) To get rid of something
(3) Make a confession
(4) Make a great fuss about a trifle

151. Select the grammatically correct sentence from the given options.

- (1) Passengers are requested to be remained seated.
(2) Passengers are requested to remain seated.
(3) Passengers requested to remained seated.
(4) Passengers are requested to be remaining seated.

152. Select the correctly spelt word.

- (1) Neglegence
(2) Neglignence
(3) Negligence
(4) Negligence

153. Select the correctly spelt word.

- (1) Continouse
(2) Continuous
(3) Cuntinuous
(4) Continous

154. Select the most appropriate ANTONYM of the given word.

TRANSPARENT

- (1) Translucent
(2) Clear
(3) Lucid (4) Opaque

155. Select the grammatically correct sentence from the given options.

- (1) You or Sourabh are either to blame for this financial loss.
(2) Either you or Sourabh is to blame for this financial loss.

(3) Either you or Sourabh are to blame for this financial loss.

(4) Either Sourabh or you is to blame for this financial loss.

Directions (156-160) : Read the following passage carefully and answer the questions given below it.

The special relationship between the client and the therapist is known as a therapeutic relationship or alliance. It is neither a passing acquaintance, nor a permanent relationship. The two major components of this alliance are the contractual nature and the limited duration of the therapy. The client and the therapist willingly enter into an alliance with the purpose of helping the client overcome their problems. The alliance lasts till the client is able to deal with the problems and take control of their life. It is a relationship based on mutual trust and confidence. A high level of trust is essential to enable the client to vent out their feelings openly and unburden themselves by confiding about their psychological and personal problems to the therapist. The therapist encourages this by being empathetic, genuine, warm and understanding. The therapist ensures the client that they would not be judging them and would continue to have positive feelings towards them even if the client is rude or shares deeds or thoughts that may be 'wrong'. This is the unconditional positive regard that the therapist has for the client.

It is very important that the therapist should have empathy for the client and not sympathy or an intellectual understanding of the other person's situation. In case of sympathy, the person feels pity for the other's suffering but cannot feel like the other person. Intellectual understanding is cold and rational and does not evoke feelings of either compassion or empathy. On the other hand, empathy makes one understand the plight of another and see oneself in the other's shoes. It enables one to see things from the other's perspective. Thus, empathy enriches the therapeutic relationship and transforms it into a healing relationship.

The therapeutic relationship also requires that the therapist maintains strict confidentiality of the feelings, thoughts actions and experiences disclosed by the client. The therapist must not betray the trust of the client or exploit them in any way. It is a professional relationship, and must remain so.

156. Which of these phrases best describes empathy?

- (1) Putting oneself in other's shoes
- (2) Taking pity on others
- (3) Feeling sorry for other's misfortune
- (4) Venting pent up emotions

157. What attitude of the therapist could be detrimental to the therapeutic relationship?

- (1) Being professional
- (2) Being discreet
- (3) Being empathetic
- (4) Being judgemental

158. Which of the following statements is NOT true?

- (1) A good therapist wins the confidence of the client.
- (2) A therapist plays the role of a healer.
- (3) A good therapeutic alliance is an eternal bond.
- (4) A therapist encourages the client to overcome all problems.

159. What are the two key ingredients of a therapeutic relationship?

- (1) Empathy and sound advice
- (2) Trust and confidentiality
- (3) Confidence and mutual interest
- (4) Trust and intellectual understanding

160. Why is the client-therapist relationship contractual in nature?

- (1) It is based on mutual trust and is irrevocable.
- (2) It is a willing alliance with a common motive.
- (3) It is legally binding on both parties.
- (4) It is temporary and arises out of compassion.