4.	AISSEE – 2018

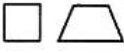### Section A - (Mathematics)

1. The greatest 8 – digits number with given digits 5, 8, 7, 5, 2, 0, 6 and 1 is-
   (a) 88765210 　　　　　 (b) 87765210
   (c) 88765521 　　　　　 (d) 87655210

2. Choose the correct option if number 52806, 82086, 52860, 52800 and 85260 are arranged in ascending order.
   (a) 52086, 52806, 52860, 52800, 58260
   (b) 52800, 52860, 52086, 58260, 52806
   (c) 52086, 52800, 52806, 52860, 58260
   (d) 52800, 52806, 52860, 52086, 58260

3. A number that must be subtracted from 925564 to make it equal to the sum of 234251 and 352421 will be –
   (a) 238892 　　　　　 (b) 338882
   (c) 338892 　　　　　 (d) 337892

4. The product of 10101 × 25 is –
   (a) 252725 　　　　　 (b) 252525
   (c) 25025025 　　　　　 (d) 272725

5. The average age of 3 sisters is 15. If the ages of 2 sisters are 12 years and 15 years, the age of the third sister is –
   (a) 21 years 　　　　　 (b) 17 years
   (c) 18 years 　　　　　 (d) 16 years

6. 7/6 of a leap year = ……… week.
   (a) 427 　　　　　 (b) 35
   (c) 61 　　　　　 (d) 13

7. Write Roman numerals CDXLIX in Arabic numerals –
   (a) 569 　　　　　 (b) 449
   (c) 549 　　　　　 (d) 469

8. Value of $(700 ÷ 10) – \{(12 × 8) ÷ (34 – 10)\}$ is –
   (a) 69 　　　　　 (b) 68
   (c) 67 　　　　　 (d) 66

9. 2 = ……….%
   (a) 200 　　　　　 (b) 0.02
   (c) 2/100 　　　　　 (d) 20

10. Vicky bought a bicycle for Rs. 3,000.00 and sold it for Rs. 2,700.00.What was his loss or gain percent?
    (a) 10% loss 　　　　　 (b) 10% gain
    (c) 11.11% gain 　　　　　 (d) 11.11% loss

11. A train leaves Hyderabad at 01:15 PM on Friday and reaches Chennai at 07:30 AM on Saturday. The duration of the journey is
    (a) 18 hrs 30 min 　　　　　 (b) 17 hrs 45 min
    (c) 18 hrs 15 min 　　　　　 (d) 17 hrs 15 min

12. Karishma bought two necklace for Rs. 1,39,500. She sold one of them for Rs. 75,000.00 and the other one for Rs. 80,000.00. How much money did she gain?
    (a) Rs. 25,500.00 　　　　　 (b) Rs. 15,000.00
    (c) Rs. 20,500.00 　　　　　 (d) Rs. 15,000.00

13. A tall office building has 85 floors. Each floor has 48 windows. Each window is to be decorated with 64 tiny bulbs. How many bulbs would be needed to decorate all the windows?
    (a) 261120 　　　　　 (b) 273920
    (c) 456960 　　　　　 (d) 209920

14. The smallest 5-digit number that is divisible by 19 is –
    (a) 10019 　　　　　 (b) 10013
    (c) 10032 　　　　　 (d) 10000

15. The greatest number that divides 38 and 68 leaving 8 as remainder in each case is –
    (a) 10 　　　　　 (b) 15
    (c) 60 　　　　　 (d) 30

16. The decimal notation of 10 kg 2 dag 6 g is
    (a) 100.260 kg 　　　　　 (b) 10.206 kg

(c) 10.026 kg   (d) 10.006 kg

17. Which of the following pair of angles are supplementary?

(a) 46° and 44°   (b) 113° and 67°

(c) 245° and 115°   (d) 90° and 180°

18. The Perimeter of the rectangle and square are same. Length and breadth of the rectangle are 10 cm and 8 cm respectively. What is the area of the square?

(a) 114 sq. cm   (b) 36 sq. cm

(c) 81 sq. cm   (d) 64 sq. cm

19. Which of the following measures of three angles can be those of a triangle?

(a) 52°,69°,70°   (b) 30°,69°,71°

(c) 132°, 169°, 59°   (d) 32°,69°,79°

20. Which statement is true?

(a) All hexagons are triangles because they have at least 3 sides.

(b) All octagons are polygons because they have at least 3 sides.

(c) All parallelograms are rectangles because they have 2 sets of parallel sides.

(d) All rhombus are squares because they have 4 sides that are all the same length.

21. The fraction equivalent to 1.25 is –

(a) $1\frac{1}{4}$ (b) $12\frac{1}{2}$

(c) $1\frac{1}{8}$ (d) $12\frac{1}{4}$

22. The sum of two numbers is 11009. If one of them is 9999, the other number is –

(a) 1010   (b) 1110

(c) 2110   (d) 21008

23. Simplify: $6 \div 6 + 6 \times 6 - 6$

(a) 1   (b) 7

(c) 31   (d) 36

24. Simplify: $1\frac{1}{24} - 1 + \frac{7}{36}$

(a) $\frac{17}{72}$ (b) $1\frac{17}{72}$

(c) $\frac{7}{60}$ (d) $\frac{5}{60}$

25. Sara poured $1\frac{1}{8}$ cups of lemonade each in 5 glasses. What was the total amount of lemonade Sara poured in 5 glasses?

(a) $3\frac{7}{8}$ (b) $5\frac{1}{8}$

(c) $5\frac{5}{8}$ (d) $6\frac{1}{8}$

26. Ritu has $\frac{1}{4}$ of a sack of rice. She divides the rice equally into 7 bags. What fraction of the full sack of rice is in each bag?

(a) $\frac{1}{28}$ (b) $\frac{1}{7}$

(c) $\frac{2}{11}$ (d) $\frac{11}{28}$

27. $1 + 0 + \frac{9}{100} + \frac{3}{1000} =$

(a) 1.093   (b) 1.903

(c) 1.93   (d) 1.0093

28. Which two quadrilaterals have both 2 pairs of parallel sides and 2 acute angles?

(a)

(b)

(c)

(d)

29. What is the sum of 20.08, 20.008, 20.088 and 20.888 –

(a) 81.064   (b) 81.604

(c) 80.064   (d) 80.888

30. Round off 37504 to the nearest hundreds-

(a) 37500   (b) 37000

(c) 38000   (d) 30000

31. A train is running at a speed of 75 km/hour. How much time will it take to cover a distance of 350 km?

(a) 4 hrs   (b) 5 hrs

(c) 4 hrs 30 min   (d) 4 hrs 40 min

32. A block of wood is in the form of cube; its edge is 4 m. How many rectangular

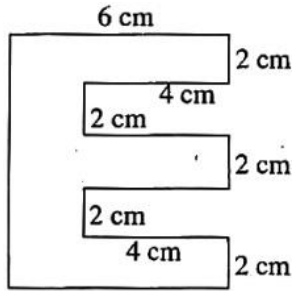pieces of dimension 20 cm x 10 cm x 5 cm can be cut from the block?

(a) 640   (b) 64

(c) 6400   (d) 64000

33. In how many years, a sum of Rs. 500 at 5% per annum will amount to Rs. 600?

(a) 3 years   (b) 4 years

(c) 5 years   (d) 6 years

34. The average of four numbers is 30. If the sum of first three numbers is 85, the fourth number is –

(a) 35   (b) 25

(c) 5 years   (d) 6 years

35. What per cent of 10 km is 10 m?

(a) 0.1%   (b) 1.0%

(c) 10.0%   (d) 40.0%

36. The number of square tiles, of side 15 cm, required for flooring a room of size 3.6 m x 4.5 m, will be –

(a) 720   (b) 360

(c) 100800   (d) 5400

37. The smallest odd number formed by using the digits 1, 2, 3, 4 and 5 –

(a) 12345   (b) 12435

(c) 12453   (d) 12534

38. Which of the following numbers are arranged in ascending order?

(a) 1/3, 1/2, 0.5

(b) 0.25, 1/2, 1/3

(c) 0.25, 1/3, 1/2

(d) 1/2, 1/3, 0.25

39. A boat is flowing is still water at the speed of 18 km/hour. The speed of boat in m/sec is-

(a) 50 m/sec   (b) 72 m/sec

(c) 7.2 m/sec   (d) 5 m/sec

40. The value of 200° F in degree Celsius is ……….. [Use C = 5/9(F-32)]

(a) 80.3^o C   (b) 90.3^o C

(c) 100.3^o C   (d) 105.3^o C

41. Find the difference between the number 36490 and the number obtained by interchanging the places of 6 and 9 –

(a) 2970   (b) 3030

(c) 2070   (d) 105.3^o C

42. Convert (3.75 of 5% + 7.25 of 10%) into decimals –

(a) 0.9152   (b) 0.9521

(c) 0.9125   (d) 0.9527

43. What is the next row of numbers?

28	84	112
38	114	152
48	144	192

(a)   58   174   232

(b)   58   184   244

(c)   68   204   272

(d)   68   214   292

44. A boy runs around a rectangular field of length 40 m and breadth 25 m. How much distance will be run if he takes 4 rounds of that field?

(a) 4000 m   (b) 260 m

(c) 250 m   (d) 400 m

45. A room is 15 m long and 10 m broa(d) Find the cost of carpeting its floor if 1 sq. cm of carpet costs Rs. 2.00.

(a) Rs. 300   (b) Rs. 300000

(c) Rs. 30000   (d) Rs. 3000000

46. The costs of a pack 15 balls is Rs. 300 and a pack of 12 shuttle cock is Rs. 96. If Raghu bought 1 ball and 1 shuttle cock, how much would he pay to shop keeper?

(a) Rs. 24   (b) Rs. 22

(c) Rs. 26   (d) Rs. 28

47. The greatest number which divides 624 and 936 exactly is 312. Find the smallest number which is divisible by 624 and 936.

(a) 1820   (b) 1872

(c) 1272   (d) 1864

48. A person purchased an old bicycle for Rs.450 and spends Rs.50 on its maintenance. If he sold the old bicycle for Rs.600, then his profit percentage is –
(a) 15%   (b) 18%
(c) 20%   (d) 25%

49. Find the area of figure given below.

(a) 56 sq. cm   (b) 48 sq. cm
(c) 44 sq. cm   (d) 60 sq. cm

50. Amar spent 3/8 of his time studying science. He spent 2/5 as much time studying English as Science. What fraction of Amar's study time was spent studying English?
(a) 1/40   (b) 3/20
(c) 31/40   (d) 15/16

Section-B – (General Knowledge)

51. Which feature helps a coconut fruit to float in water?
(a) A fibrous outer covering
(b) A spongy part
(c) Presence of hook
(d) Presence of spine

52. Which of the following is a non-communicable disease?
(a) Chickenpox   (b) beriberi
(c) common cold   (d) measles

53. The rabies virus is carried by –
(a) Cockroaches   (b) Hens
(c) Dogs   (d) Rabbits

54. Milk turning sour is a -
(a) Physical change
(b) Reversible change
(c) Chemical change

(d) None of these

55. The wearing off or carrying away of soil by the action of water or wind is called –
(a) Storm   (b) flood
(c) Soil erosion   (d) deforestation

56. Whales and dolphins are classified as –
(a) fishes   (b) reptiles
(c) mammals   (d) amphibians

57. The working of the internal organs of our body is controlled by this system –
(a) reproductive   (b) circulatory
(c) respiratory   (d) nervous

58. A person might faint it his heart does not send enough blood to his –
(a) feet   (b) liver
(c) kidneys   (d) brain

59. The upward push of water on a floating object is called –
(a) buoyant force   (b) volume
(c) density   (d) pressure

60. The first artificial satellite launched by India in 1975 was –
(a) Sputnic 1   (b) Aryabhatta
(c) Charaka   (d) Insat

61. Those who study earthquake are called –
(a) geologist   (b) seismologists
(c) astronomers   (d) astrologers

62. Which of the following gas is not a greenhouse gas?
(a) carbon dioxide   (b) oxygen
(c) methane   (d) CFC

63. The model of the earth is called a ---
(a) circle   (b) sphere
(c) globe   (d) marble

64. Agriculture cannot be practiced on mountains on a large scale as they –
(a) are thinly populated
(b) have a shortage of land
(c) have a thin soil cover
(d) have unsuitable climate

65. The condition of the atmosphere at a given place and time is called –
    (a) season   (b) climate
    (c) Altitude   (d) weather

66. The highway of Central Africa is another name for –
    (a) River Nile
    (b) River Congo
    (c) River Nimbani
    (d) River Kwango

67. Most of the grasslands of the world are found in the –
    (a) Tropical Zone
    (b) Temperate Zone
    (c) Torrid Zone
    (d) Frigid Zone

68. Any sound louder than 90 decibels can cause –
    (a) asthama
    (b) digestive problems
    (c) typhoid
    (d) loss of hearing

69. Aligarh Muslim University is associated with –
    (a) Rabindranath Tagore
    (b) Tansen
    (c) Kalidas
    (d) Syed Ahmid Khan

70. The English Government introduced the policy of divide and rule to –
    (a) educate Indian
    (b) encourage nationalism
    (c) reform Indians
    (d) suppress nationalism

71. Purna Swaraj means –
    (a) non-cooperation
    (b) civil disobedience
    (c) boycott
    (d) complete independence

72. The Lok Sabha can have a maximum of –
    (a) 12 members   (b) 552 members
    (c) 238 members   (d) 543 members

73. The League of Nations was formed to prevent –
    (a) destruction
    (b) loss of lives
    (c) droughts
    (d) another world war

74. The world has been made smaller due to
    (a) wheels
    (b) steam engines
    (c) fast means of transports
    (d) cars

75. Internet is a source of information on –
    (a) documentaries
    (b) e-mail
    (c) any topic
    (d) a few topic

Section C - (English)

Directions (76 to 81): Read and following passage and answer the questions.

HORACE DENBY: Everyone thought that Horace Denby was a good and honest citizen. He was about fifty years old and unmarried, and he lived with a housekeeper who worried over his health. In fact, he was usually very well and happy, except for attacks of hay fever in summer. He made expensive locks and was successful enough at his business to have two helpers. Yes, Horace Denby was good and respectable – but not completely honest.

Fifteen years ago, Horace has served his first and only sentence in prison, for stealing jewels. The priest at the prison had liked Horace – everyone did – and had tried to help him to live an honest life. But Horace did not want to become honest. He only wanted to make sure that

his dishonesty never got him into trouble again.

76. Horace Denby was –

(a) Old

(b) unmarried

(c) handicapped

(d) both (a) and (b)

77. ………….. worried about the health of Horace.

(a) His wife   (b) The Priest

(c) His housekeeper (d) Horace

78. For stealing jewels, Horace was sent to prison –

(a) only once   (b) twice

(c) thrice   (d) never

79. The profession of Horace was –

(a) businessman   (b) thief

(c) housekeeper   (d) locksmith

80. Choose the word which means the opposite of <u>EXPENSIVE</u>.

(a) cheap   (b) luxurious

(c) costly   (d) heavy

81. Choose the word which means almost same as <u>UNMARIIED</u>

(a) handsome   (b) widow

(c) young   (d) bachelor

Directions (82 to 90): Choose the most appropriate option given against each question.

82. A heard of cows or ……

(a) birds   (b) elephant

(c) sheep   (d) horse

83. This is my book and that is ….

(a) yours   (b) your

(c) our   (d) ours

84. Rajan's father and Rohan's father ……… businessmen.

(a) are   (b) have

(c) is   (d) has

85. My friends ……. been asking for the party photographs.

(a) do   (b) does

(c) have   (d) has

86. Rakesh …….. his mother tongue very fluently.

(a) speak   (b) speaking

(c) speaks   (d) None of these

87. Ankit and his family …… in Europe for three weeks.

(a) have been travelling

(b) have travelling

(c) been travelling

(d) have travelled

88. Bharti …….. yoga classes these days.

(a) attending

(b) has attending

(c) is attending

(d) has been attending

89. My house is ………… as yours.

(a) big   (b) as big

(c) bigger   (d) biggest

90. This is the ………… comics I have ever read.

(a) most interesting

(b) more interesting

(c) less interesting

(d) None of these

Directions (91 to 92): Select one word from the options for the given definition.

91. A book or work of art whose author is unknown –

(a) anonymous   (b) playwright

(c) novelist   (d) poet

92. A person who believes in the existence of God

(a) atheist   (b) theist

(c) agnostic   (d) pacifist

Directions (93 to 94): Select the most appropriate option for question tag.

93. I have completed my homework, ……..?
(a) have I
(b) has I
(c) do I
(d) haven't I

94. He does not do his work sincerely, ……..?
(a) does he
(b) did he
(c) doesn't he
(d) do he

Directions (95 to 96): Rearrange the following words/groups of words to make meaningful sentences. Choose the correct sequence given in the options.

95. and grandpa (a)/my grandma (b)/to much (c)/love each other (d).
(a) bdac
(b) bacd
(c) dbca
(d) badc

96. was very preety (a)/in her childhood (b)/my grandma (c)/and beautiful (d).
(a) cbad
(b) adbc
(c) cadb
(d) cdab

Directions (97 to 98): Mark the option with the correct spelling of the given words.

97. (a) address
(b) adres
(c) address
(d) addres

98. (a) appreciation
(b) appreciation
(c) appreciason
(d) appreciation

Directions (99 to 100): Choose the appropriate option to fill in the blanks.

99. 'Books' is for 'book', …….. is for 'ship'.
(a) sheeps
(b) ships
(c) shepherds
(d) Sheep

100. 'Kids' is for 'kid', …….. is for 'child'.
(a) childs
(b) child
(c) children
(d) None of these

Paper – II: (Intelligence Test)

101. Find the missing number in the number series given below –
(a) 64
(b) 56
(c) 62
(d) 54

102. Victory is to Joy as …… is to Sorrow.
169 : 13 : 289 : ?

(a) Defeat
(b) Depression
(c) Loneliness
(d) Cry

103. Find the missing number that has same relation to 289 as 13 has to 169.
(a) 19
(b) 17
(c) 27
(d) 23

104. If TRAIN is written as WUDLQ, then BUS would be written as …………
(a) EXU
(b) DWU
(c) EXV
(d) VXE

105. If FLOW is related to RIVER, then STAGNANT is related to …….
(a) Pool
(b) Rain
(c) Stream
(d) Canal

106. Choose the word which is least like the other words in the group.
(a) Ladder
(b) Staircase
(c) Bridge
(d) Escalator

107. If we arrange the words in alphabetical order, which word would come at the second place, choose the correct alternative?
(a) Plane
(b) PLAIN
(c) Plenty
(d) Player

108. Choose the alternative that resembles the water image of the given word below

A1M3b

(a) ∀1M3P
(b) ∀IM3P
(c) ∀IW3P
(d) ∀IM3P

109. Choose the word which is least like the other words in the group.
(a) Eyes
(b) Ear
(c) Hand
(d) Scarf

110. Choose the alternative that will continue the number series below – 2, 3, 5, 7, 11, 13, ?
(a) 15
(b) 19
(c) 17
(d) 21

111. Which of the following diagram indicates the best relation between Country, Nepal and India –

(A)

(B)

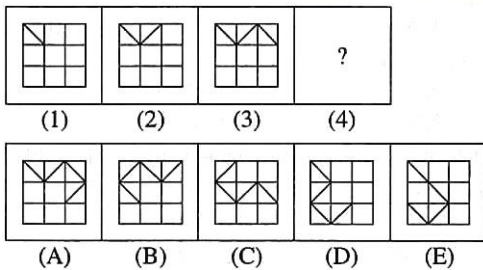(C)

(D)

(E)

112. Choose the alternative that will continue the number series below – 5, 11, 19, 29, ?, 55

(a) 39   (b) 41

(c) 37   (d) 43

113. A FISH is to GILLS, then a MAN is to ………..

(a) Ear   (b) Eye

(c) Lungs   (d) Nose

114. Which figure among the five alternatives A, B, C, D and E would replace the question mark in figure '4'?

(a) A   (b) B

(c) C   (d) D

(e) E

115. Choose the word which is least like the other words in the group.

(a) Sun   (b) Planets

(c) Stars   (d) Satellites

116. If Mays is the only daughter of Richa's grandmother's brother, how is Maya's daughter related to Richa?

(a) Niece   (b) Cousin

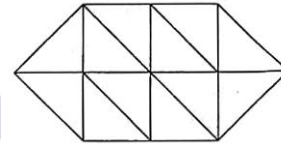(c) Aunt   (d) Mother

117. O, P, Q, R, S and T are standing on a bench according to their height. P is taller than O but shorter than S. Only S is taller than T. R is shorter than P but taller than Q. Who is the shortest?

(a) O

(b) Q

(c) P

(d) Cannot be said

118. If '+' means '÷', 'x' means '−', '÷' means '+' and '-' means 'x', hen what would be the answer of the equation? 16÷8x6-2+12=?

(a) 22   (b) 24

(c) 23   (d) 20

119. Count the number of triangles present in the given figure.

(a) 16   (b) 17

(c) 18   (d) 19

120. If DOG is to RABIES, then MOSQUITO is to ……?

(a) Plague   (b) Death

(c) Malaria   (d) Sting

121. It is 3 O' clock in a watch and it is rotated by `10 degree in a manner such that if the minute hand points towards the North-East, then hour hand will point towards which direction?

(a) South   (b) South-West

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

122. LOVE is to HATE, then FRIEND is to …….?

(a) Trust   (b) Companion

(c) Enemy   (d) Despire

123. If the given alpha-numeric series is seen in mirror, which alternative would resemble its mirror image?

ANS43Q12

(A) ƎIϘƐ⊅ϹᴎA (B) ⊆IϘƐ⊅ϽИA

(C) ϹᴎAƐ⊅ϘƐƐ (D) I⊆W⊅ƐAИ�S

124. Given that A and B are a married couple. If X and Y are brothers and X is the brother of (A) How is Y related to B?

(a) Brother-in-law   (b) Brother

(c) Cousin   (d) None of these

125. If '+' means '-', '-' means 'x', 'x' means '÷' and '÷' means '+', then what would be the answer of the equation: 15 x 5 ÷ 10 + 5 – 3 = ?

(a) 9.5   (b) 0

(c) -2   (d) 24