Sree Chitra Tirunal Institute for Medical Sciences and Technology

Achutha Menon Centre for Health Science Studies

ENTRANCE EXAMINATION for MASTER OF PUBLIC HEALTH (M P H) November 2016

Each question has only one correct answer. There is no negative mark for wrong answers

1. The ratio of men to women in a particular firm is 3:2. If there are 57 men in the firm, how many women should be recruited further to make the ratio 1:1?
   A. 13
   B. 17
   C. 19
   D. 23

2. Two students appeared for an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. What are the marks obtained by them?
   A. 42,33
   B. 42,36
   C. 44,33
   D. 44,36

3. Complete the following series with the most suitable combination: AZC, DYF, GXI, ___
   A. JVK
   B. KWM
   C. KVN
   D. JWL

4. The average of four positive even integers is 50. If x is the greatest of these integers, what is the largest possible value of x?

A. 200

B. 196

C. 198

D. 194

5. Only fish oil contains Omega 3. Only foods that contain Omega 3 help with brain development. Which conclusion can be derived from the combination of these two statements?

A. All fish oils help with brain development

B. Only what contains Omega 3 is fish oil.

C. All that helps with brain development is fish oil.

D. There are fish oils that help with brain development.

6. Complete the following series with the most suitable combination:

ZA2, XE3, VI5, TO7,---

A. ST9

B. RU11

C. QU13

D. PA12

7. "We like him" is the same as

A. He likes us

B. He has liked us

C. He is liked by us

D. He was liked by us

8. A is B's brother, C is A's mother, D is C's father, E is B's son. How is E related to A?

A. Cousin

B. Nephew

C. Uncle

D. Grandson

9. Of the following, which is closest to zero?

A. 0.50

B. -1.00

C. -0.05

D. -0.1

10. What is the value of $(x-3x+x+2x)$ if $x=1$?

A. -1

B. 0

C. 1

D. D.2

11. A mother and her child have a combined weight of 125 kilograms. If the mother's weight is 4 times her child's weight, what is the weight, in kilograms, of the child?

A. 32

B. 31.5

C. 25

D. 28

12. Which of the following are in descending order?

A. 0.01, 0.05, 1.5, 4.5

B. -.01, -1.5, 2.5, 3.0

C. 1.5, -1.5, 1.0, -2.5

D. -.01, -.05, -1.5, -4.5

13. Which of the following is equal to 3/8?

A. (-3)/(-8)

B. (3/-8)

C. (-3/8)

D. (-6/16)

14. Jaya is older than Usha. Usha's brother Sampath is older than Jaya. When they play scrabble together, Jaya wins more often than the others. Which of the following statements can be inferred from these?

A. Older children win more often at scrabble

B. Usha is the youngest of the three

C. Sampath doesn't like losing to Jaya

D. Boys are not clever at scrabble

15. What is the range of the following set of data? { 2,5,2,8,45,8,17,9,16}

A. 45
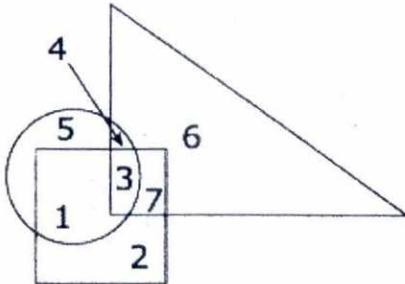
B. 40

C. 16

D. 43

16. Sania _____ tennis very well.

A. Play
B. Plays
C. Plays the
D. Playing

17. If 30% of a number is 12.6, find the number

A. 45

B. 38

C. 40

D. 42

18. If the vowels A, E, and U are replaced by by P, M and C respectively, what is PUBLIC HEALTH?

A. PMBLIC HCPLTH

B. PCBLIC HMPLTH

C. ACBLIC HUPLTH

D. MCBLIC HPPLTH

19. If Alex goes dancing, then Betty goes dancing. If Betty goes dancing then Charlie goes dancing. If Charlie goes dancing then Daniel does not go dancing. If Daniel goes dancing then Ellen does not go dancing. If we know that Alex goes dancing, which of the following statements must be true?

A. Betty does not go dancing.

B. Daniel does not go dancing

C. Charlie does not go dancing.

D. Ellen goes dancing

20. I will have finished this essay _____ Friday

A. in

B. on

C. by

D. since

21. Circle indicates 'strong', square indicates 'tall', and triangle 'army officers'. The strong army officers who are not tall are shown by:

A. 4

B. 3

C. 5

D. 6

22. In India, government contribution to the country's total health expenditure is

A. Almost 100%

B. More than 75%

C. About 50%

D. 30% or less

23. In a class of 100 students, 50 students passed in Mathematics and 70 passed in English, 5 students failed in both Mathematics and English. How many students passed in both the subjects?

A. 50

B. 25

C. 40

D. 70

24. Geethu and neethu starts from a point in opposite directions and travels 4 Kms. Then Geethu turn towards right and travelled 3 Kms. Neethu also turn towards right and travel 3 kms. What will be the distance between neethu and geethu?

A. 10 km

B. 5 km

C. 20 km

D. 14 km

25. I complimented him_____ his brilliant success in the examinations

A. over

B. on

C. for

D. towards

26. The average hemoglobin (Hb) of 3 women is 10. When Hb value of a fourth woman is added, it falls to 9.5. The Hb value of the fourth woman is ___.

A. 7.5

B. 8

C. 8.8

D. 9.2

27. Which disease is eradicated in Tanzania?

A. Yellow fever

B. AIDS

C. Chicken Pox

D. Small Pox

28. The Currency issued by central bank is in the form of

A. Coin
B. Promissory note
C. Cheque
D. Bond

29. My birthday is _____ May

A. in

B. on

C. by

D. into

30. Which one of the following is a measure of dispersion?

A. Regression coefficient

B. Third quartile

C. Range

D. Skewness

31. Which of the following are in ascending order?

A. 50, 40, 30, 10

B. -10, -30, -40, -50

C. -50, -40, -30, -10

D. -100, -200, 100, 200

32. Geethu can type 10 pages in 10 minutes. Neethu can type 5 pages in 10 minutes. How many pages can they type in 30 minutes if they work together?

A. 45

B. 75

C. 25

D. 35

33. Which word means the following: according to usual practice

A. Venerable

B. Arthurian

C. Habitual

D. Disobedient

34. Monitoring is

A. To convert an asset or any object into money or legal tender

B. Determining the relative value of an amount of money

C. Referred to as process, performance or formative evaluation

D. a television/computer receiver used in a studio to select or verify the picture being broadcast from a particular camera

35. Which word means the following: to pay back as an equivalent or what has been expended

A. Elude

B. Reimburse

C. Forerun

D. Adjudge

36. Suppose the area of a square is 25 sq cms. If its length of side is doubled, what will be the area?

A. 12.5 sq cms

B. 50 sq cms

C. 100 sq cms

D. 10000 sq cms

37. The CEDAW is the UN Convention on:

A. Prevention of discrimination against women

B. Protection of child rights

C. Protection of persons with disabilities

D. Prevention of the harms from tobacco use

38. Statement: Unable to manage with the present salary, Tarun joined another company.

Assumptions: I. The new company has better work environment. II. The present company offers moderate pay packet. III. The new company offers higher salary to the all its employees.

A. All are implicit

B. None is implicit

C. Only II is implicit

D. Only II and III are implicit

39. This is _____ interesting game.

A. a

B. some

C. the

D. an

40. Deficiency of _____ causes loss of appetite and poor growth

A. Zinc
B. Calcium
C. Iron
D. Iodine

41. Savory flavours are _____ sweet _____ sour.

A. often/and

B. both/and

C. neither/nor

D. either/or

42. In India, medical termination of pregnancy Act permits abortions up to

A. 20 weeks of pregnancy
B. 10 weeks of pregnancy
C. 12 weeks of pregnancy
D. 8 weeks of pregnancy

43. The average of 9 items is 89. If one new item whose value is 69 is added, what is the average of all 10 items?

A. 83

B. 85

C. 91

D. 87

44. Complete the sentence by selecting the appropriate word:

Everyone lost their money when the so-called treasurer...............with all the society's savings.

A. Avoided

B. Evaded

C. Absolved

D. Absconded

45. If **VICTORY** is coded as YLFWRUB, how can **SUCCESS** be coded?

A. VXEEIVV

B. VYEEHVV

C. VXFFHVV

D. VYEFIVV

46. The speed of a car increases by 2 kms after every one hour. If the distance travelling in the first one hour was 35 kms. What was the total distance travelled in 12 hours?

A. 456

B. 482

C. 556

D. 552

47. What is the median value of the following number set?   24,18,15,30,34

A. 15

B. 30

C. 24

D. 19

48. In the series one term is missing. Choose the correct alternative that will continue the same pattern and fill up the blank spaces: 2 , 7 , 14 , 23 , -- , 47

A. 31

B. 28

C. 34

D. 38

49. Demographer is related to People in the same way as Philatelist is related to …….

A. Fossils

B. Stamps

C. Music

D. Photography

50. Complete the sentence by selecting the appropriate word: The party leader advised all her members to …………..any question about finance and avoid the topic of money.

A. Risk

B. Undertake

C. Eschew

D. Involve

51. I can't wait for the school to close' means that

A. I have urgent business, so I can't wait till then

B. I am unable to wait because of some physical disability

C. I am sad at the school closing

D. I am looking forward to the school closing

52. EHG: IKL as PRS: ?

A. TUX

B. UVY

C. XUT

D. STW

53. If AIR is 347 and WATER is 13967, the EARTH is

A. 63794

B. 63795

C. 63784

D. 63785

54. ____ you help me lift this crate?

A. can

B. could

C. would

D. should

55. Find the odd one in the sequence: Metre, Litre, Feet, Mile.

A. Metre

B. Litre

C. Feet

D. Mile

56. Do you _____ Hindi?

  A. talk

  B. speak

  C. talking

  D. speaking

57. Disney land is _____than any other amusement park

  A. Interesting

  B. very interesting

  C. more interesting

  D. most interesting

58. If a country experiences a rapid increase in per-capita income due to discovery of new oil reserves, then it is experiencing

  A. growth but not necessarily development

  B. development but not growth

  C. Both growth and development.

  D. neither growth nor development

59. The value of a machine depreciates at the rate of 10% every year. It was purchased 3 years ago. If its present value is Rs. 8748, its purchase price was :

  A. 10000

  B. 12000

  C. 14000

  D. 16000.

60. In a family there are husband, wife, two sons, and two daughters. All the ladies are invited to a dinner. Both sons went out to play. Husband did not return from office. Who was at home?

A. Only wife was at home

B. All ladies were at home

C. Only sons were at home

D. Nobody was at home

61. Complete the following series with the most suitable combination: AB, EC, ID, OF, __

A. UG

B. AH

C. PI

D. NU

62. A fruit seller had some oranges. He sells 40% oranges and still has 420 oranges. How many oranges he had originally?

A. 420

B. 700

C. 220

D. 400

63. The doctor advised the patient to abstain _____ smoking.

A. with

B. from

C. of

D. by

64. If each side of a square is increased by 25%, find the percentage change in its area?

A. 65.25

B. 56.25

C. 65

D. 56

65. In the discourse on research ethics, the Tuskegee experiment is well known. What disease was being researched in Tuskegee?

A. Tuberculosis

B. Syphilis

C. Yellow fever

D. Jaundice

66. One of the following is an outcome of negotiation

A. Price

B. Negotiation itself

C. War

D. Lose-Lose

67. Choose the odd pair from among the following:

A. Hot: Cold

B. Old: Young

C. Tall: Huge

D. White: Black

68. Do you want another drink?_____

A. I'm going to

B. Please do

C. No thanks

D. Can you?

69. Which of the following is used for predictions?

A. Regression analysis

B. Analysis of variance

C. Correlation analysis

D. Factor analysis

70. In travelling from home to city A, a student went 1/5 of the way by foot, 2/3 of the way by bus, and the remaining 10 kilometers by car. What is the distance, in kilometers, from the dormitory to the city?

A. 30

B. 45

C. 60

D. 75

71. London is the _____ city in Great Britain

A. large

B. larger

C. very large

D. largest

72. Which word does NOT fit in with the others?

A. Car

B. Bus

C. Ship

D. Truck

73. Sita, Cathy, Jasmine and Rani want to take seats in a cinema. There is only 1 aisle seat and the rest are in a line next to it. If Rani wants to sit in the aisle seat, Jasmine wants to sit next to Sita, and Cathy doesn't want to sit next to Jasmine, how will they sit (starting at the aisle)?

A. Rani, Jasmine, Sita, Cathy

B. Rani, Cathy, Jasmine, Sita

C. Sita, Cathy, Jasmine, Rani

D. Rani, Sita, Jasmine, Cathy

74. Among the following, select the sentence with the most appropriate use of the word "**the**":

A. We went on a walk in **the** forest yesterday.

B. The playroom has **the** six small round plastic tables.

C. This job will involve **the** international travel

D. It was **the** beautiful cold day.

75. Find the missing numbers and letters in the following series: D   81   G   64   ?   49   M   ?   P

A. J,36

B. F,36

C. G,32

D. F,24

76. If Variance is 100, how much is Standard Deviation?

A. 1

B. 10

C. 100

D. 1000

17. On weekends, Mr Menon spends time in the vegetable garden. Mrs Menon reads historical novels. Both of them love cooking. Which of the following statements logically follows from these?

A. Mrs Menon helps in the garden

B. Mr Menon borrows books for his wife from the library

C. Both Mr and Mrs Menon hate television serials

D. Mrs Menon is a good cook

78. Market where there is only one seller is called

A. Perfect competition

B. Oligopoly

C. Imperfect Competition

D. Monopoly

79. Find the odd one in the sequence: Desktop computer, Calculator, Spreadsheet, Laptop computer.

A. Desktop computer

B. Calculator

C. Spreadsheet

D. Laptop computer

80. Introducing a boy, Mithun says:' his mother is the only daughter of my mother in law'. How is Mithun related to the boy?

A. Uncle

B. Father

C. Brother

D. Cousin

81. Aruna cut a cake into two halves and cuts one half into smaller pieces of equal size. Each of the small pieces is twenty grams in weight. If she has seven pieces of the cake in all with her, how heavy was the original cake?

A. 240 gms

B. 220 gms

C. 225 gms

D. 250 gms

82. Antonym for proliferate is

A. Shrink

B. breed

C. multiply

D. procreate

83. 42 chocolates are distributed among some boys and girls. If each boy gets 3, then each girl gets 6. But if each boy gets 6 and each girl gets 3, it needs 6 more. The number of girls is

A. 10

B. 8

C. 4

D. 6

84. Consider the following distribution of incomes in country x and country y: country x (2, 3, 4) country y (6, 9, 12)

A. inequality is higher in x than in y

B. inequality is higher in y than in x

C. inequality is the same in x and y

D. the information given is not sufficient to compare inequality in x and y

85. Ela Bhatt is

A. An activist known for her role in Narmada Bachao Andolan

B. The founder of Self Employed Womens Association (SEWA)

C. The winner of the prestigious Booker Prize

D. the first lady Chief Minister of a state in India

86. I like the colour blue. My wife very often prefers maroon coloured saris. We decided to paint our drawing room white. Which of the following statements follow from these?

A. Spouses have different likes and dislikes

B. My wife doesn't like blue

C. I like the colour maroon

D. We both love white

87. Cube root of 27 is

A. 3

B. 5.2

C. 6

D. 9

88. A bag contains 50 P, 25 P and 10 P coins in the ratio 5: 9: 4, amounting to Rs. 206. Find the number of coins of each type respectively.

A. 360, 160, 200

B. 160, 360, 200

C. 200,360,160

D. 200,160,300

89. Fibre content per 100 grams is lowest in

A. Carrot

B. Unpolished rice

C. Water melon

D. Cane sugar

90. Find the odd one in the sequence: Square, Rectangle, Sphere, Triangle

A. Square

B. Rectangle

C. Sphere

D. Triangle

91. Teacher is to school as

A. Doctor is to hospital

B. Minister is to election

C. Police is to crime

D. Lawyer is to bail

92. If A=1, B=3, C=5 and so on. What will be the value of the word DELHI

A. 23

B. 71

C. 86

D. 50

93. The furniture in my room _____ brown.

A. are

B. is

C. were

D. has

94. John lives in Mumbai while his younger cousin Antony lives in Kerala. Antony has visited John several times last year, but John has visited Antony only once. Which of the following can be inferred from these?

A. John doesn't like Antony
B. Antony likes to go to Mumbai
C. John is older to Antony
D. John thinks Kerala is a boring place

95. I always _____ a lot of mistakes when I speak English.

A. made
B. make
C. makes
D. making

96. Which word does NOT fit in with the others?

A. great

B. new

C. vast

D. huge

97. ___honesty is _____best policy

A. The, the
B. The,____(no determiner)
C. A, the
D. ___(no determiner), the

98. We need some more _____ in this room.

A. bookshelf
B. bookshelve
C. bookshelfs
D. bookshelves

99. The phone is ringing

A. I'll get it

B. I'll do it

C. I'll ring it

D. I'll see it

100. Which word does NOT fit in with the others?

A. Logical
B. Reasonable
C. Cogent
D. Profound

Answer key- MPH entrance exam 2017 *(November 2016 Entrance)*

1. C	26. B	51. D	76. B
2. A	27. D	52. A	77. D
3. D	28. B	53. B	78. D
4. D	29. D	54. C	79. C
5. A	30. C	55. B	80. B
6. B	31. C	56. B	81. A
7. C	32. A	57. C	82. A
8. B	33. C	58. A	83. C
9. C	34. C	59. B	84. C
10. C	35. B	60. D	85. B
11. C	36. C	61. A	86. A
12. D	37. A	62. B	87. A
13. A	38. C	63. B	88. C
14. B	39. D	64. B	89. D
15. D	40. A	65. B	90. C
16. B	41. C	66. D	91. A
17. D	42. A	67. C	92. B
18. B	43. D	68. C	93. B
19. B	44. D	69. A	94. C
20. C	45. C	70. D	95. B
21. A	46. D	71. D	96. B
22. D	47. C	72. C	97. D
23. B	48. C	73. A	98. D
24. A	49. B	74. A	99. A
25. B	50. C	75. A	100.D

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1.11.16