The Mahakal Tutorial
AISSEE - VI

Candidate Name: _____   CET   **Maximum Time: - 150 min**

SECTIONS	QUESTIONS	MAX-MARKS	PAGES
Mathematics	50	150	1 - 3
English	25	50	4 - 5
General Knowledge	25	50	5 – 6
Intelligence	25	50	6 – 7
Total	**125**	**300**	**1 – 7**

Instructions

1. All questions are Compulsory and objective type with Multiple Choice Answers
2. Use only a **BLACK/BLUE** pen to completely darken the circles corresponding to the correct answer
3. The candidate must shade only one circle. If more than one circle is shaded, it will be treated as a wrong answer.

MATHEMATICS

1. Which statement is not true about polygon?
   a. The end point of a side is an adjoining vertex
   b. All sides are parallel to each other
   c. The intersection of two sides is a vertex
   d. None of these.

2. A class of school has 80 students. Each student has 6 books. Each book has 12 chapters. How many chapters are in all books?

a. 7650	b. 6570
c. 7560	d. 5760

3. What is the sum of 30.06, 30.006, 30.066 and 30.666?

a. 121.798	b. 119.798
c. 120.798	d. 122.798

4. The final revision classes in "The Mahakal Tutorial" will start on Friday at 10:15 AM and end on Saturday at 07:45 PM. The duration of revision classes is –

a. 33 hours and 30 minutes.	b. 32 hours and 30 minutes.
c. 33 hours and 45 minutes.	d. 32 hours and 25 minutes.

5. Priscilla bought cheese that weighs 3/4 of a pound. If she divides it into portions that are each 1/8 of a pound, how many portions can she make?

a. 4	b. 8
c. 6	d. 12

6. One half of the students in a school are girls, 3/5 of these girls are studying in lower classes. What fraction of girls are studying in lower classes?

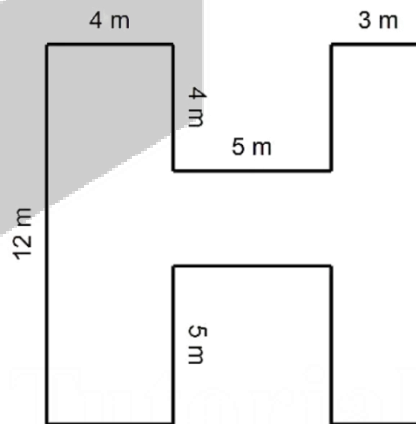| a. 6/5	b. 3/10
c. 6/10	d. 3/15

7. A block of wood is in the form of a cube, its edge is 8 m. How many rectangular pieces of dimension 4 cm x 10cm x 25 cm can be cut from the block?

a. 512000	b. 51200
c. 5120	d. 512

8. The value of $24 \div 4 \times (3 + 3) \div 2$ is:

a. 22	b. 24
c. 20	d. 18

9. Find the area of the figure given below:

a. 99m^2	b. 100m^2
c. 101m^2	d. 98m^2

10. The smallest odd number formed by using the digits 1, 2, 3, and 4 is: -

a. 1234	b. 1243
c. 1423	d. 1324

11. The sum of two numbers is 11008. If one of them is 8888, the other number is

a. 1210	b. 2210
c. 1021	d. 2120

12. The perimeter of the rectangle and square are the same. If area of square is 144cm^2 and ratio of sides of rectangle are 5 : 3. Find length of rectangle.(L >B)

a. 3cm	b. 15cm
c. 8cm	d. 9cm

13. Round. off 47508 to the nearest thousands

a. 47000	b. 47500
c. 48000	d. 47600

14. Solve (111)^2 is

a. 12321	b. 13331
c. 12221	d. 13231

15. The fraction equivalent to 2.25 is:

a. 10/7	b. 9/4
c. 5/3	d. 11/5

16. A train is running at a speed of 70 km per hour. How much time will it take to cover a distance of 350 km?

a. 7 hours	b. 4 hours
c. 5 hours	d. 6 hours

17. Lalita bought two laptops for Rs.1,49,500.00. 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. ₹ 5,600	b. ₹ 6,500
c. ₹ 6,600	d. ₹ 5,500

18. Arrange in ascending order? 1/3, 1/2, 0.25, 0.20

a. 0.20 < 0.25 < 1/3 < 1/2	b. 0.25 < 0.20 < 1/3 < ½
c. 1/3 < 1/2 < 0.20 < 0.25	d. 0.20 < 0.25 < 1/2 < 1/3

19. The smallest 5-digit number that is divisible by 17 is

a. 10003	b. 10000
c. 10013	d. 10017

20. A boat is flowing in still water at the speed of 36km/hr. The speed of a boat in m/sec is:

a. 5m/sec	b. 15m/sec
c. 12m/sec	d. 10m/sec

21. Simplify: $\frac{6+6\div6}{(6+6)\div6}$

a. 1	b. 7/2
c. 0	d. 9/2

22. A person purchased an old book for Rs. 550 and spent Rs. 50 on its binding. If he sold this book for Rs. 800, then his profit percentage is:

a. 20%	b. 15%
c. 25%	d. None of these

23. The greatest 7-digits number with given digits 5,8,7,5,2,0,6 and 1 is:

a. 8765521	b. 8765512
c. 87655210	d. 87556210

24. Which would be the proper order of the following (in ascending order)?

a. Hundred, Thousand, Million, Trillian, Billion.

b. Hundred, Thousand, Billion, Million, Trillian.

c. Hundred, Thousand, Trillian, Million, Billion.

d. Hundred, Thousand, Million, Billion, Trillian.

25. Convert (4.75 of 5% + 8.25 of 10%) into decimals:

a. 2.0625	b. 1.0625
c. 3.0625	d. 4.0625

26. The average of four numbers is 32. If the average of the first three numbers is 30, the fourth number is-

a. 38	b. 32
c. 35	d. 42

27. 0.5 = …….%

a. 500	b. 0.5
c. 50	d. 0.05

28. The greatest number that divides 32 and 62 leaving 2 as the remainder in each case is

a. 15	b. 30
c. 60	d. 90

29. If you have 80 tickets for the fair and each ride costs 5 tickets, how many rides can you go on?

a. 16	b. 400
c. 32	d. 200

30. The number of square tiles, of side 18 cm, required for flooring a room of size 3.6m x 6.3m will be:

a. 500	b. 400
c. 300	d. 700

31. Aradhana has 100 pieces of gum to share with her friends. When she went to the park, she shared 10 pieces of strawberry gum. When she left the park, Aradhana shared another 10 pieces of bubble gum. How many pieces of gum does Aradhana have now?

a. 90	b. 80
c. 110	d. 120

32. The greatest number which divides 264 and 396 exactly is 132. Find the smallest number which is divisible by 264 and 396.

a. 762	b. 784
c. 792	d. 780

33. Write Roman numerals CDXLIX Arabic.

a. 439	b. 551
c. 451	d. 449

34. Which of the following are linear pair of angles.

a. 46° and 44°	b. 113° and 67°
c. 245° and 115°	d. 90° and 180°

35. Find the difference between the number 26480 and the number obtained by interchanging the places of 6 and 4:

a. 1800	b. 1700
c. 1600	d. 1500

36. How many lines of symmetry are there in a square?

a. 1	b. 2
c. 3	d. 4

37. 7/6 of a leap year = …………. Days

a. 61	b. 366
c. 427	d. 274

38. In how many years, a sum of Rs, 500 at 5% Per annum will amount to Rs. 800?

a. 6 years	b. 12 years
c. 32 years	d. 16 years

39. Monday's temperature was 4°C higher than Sunday. If Sunday's temperature was 16°C then Monday's temperature (in °F) was.

a. 20°F	b. 68°F
c. 32°F	d. 48°F

40. Which of the following measures of three angles can be those of a right-angled triangle?

a. 32°,69°,79°	b. 35°, 65°, 90°
c. 32°, 90°, 58°	d. 32°, 65°, 83°

41. What percent of 0.1 km is 10 cm?

a. 0.1%	b. 0.01%
c. 1%	d. 10%

42. Simplify: $2\frac{1}{24} - 1\frac{7}{36} + 1\frac{11}{72}$

a. 0	b. 1
c. 2	d. None of these

43. A boy runs around a rectangular field of length 30 m and breadth 15 m. How much distance will he run if he takes 2 rounds of that field?

a. 45 m	b. 60 m
c. 90 m	d. 180 m

44. A square room of each side 6m. Find the cost of carpeting its floor if 1 sq. cm of carpet costs 70 paise.

a. ₹ 252	b. ₹ 252,000
c. ₹ 25,200	d. ₹ 25.2

45. Vickey bought a bicycle for Rs. 4,000.00 and sold it for Rs. 3,400.00. What was his loss or gain percent?

a. 15% loss	b. 15% Profit
c. No profit/Loss	d. None of these

46. Choose the correct properties that applicable on all types of parallelograms.
   A. Opposite sides are equal and parallel.
   B. All 4 sides are equal in length.
   C. Diagonals are bisected each other.
   D. Both diagonals are equal in length.

a. Only A and D	b. Only A and C
c. Only B and C	d. Only B and D

47. $3 + 0 + \frac{9}{100} + \frac{7}{1000} =$

a. 3.97	b. 3.0097
c. 3.097	d. 3.907

48. The average of 7 consecutive numbers is 20. The largest of these numbers is :

a. 20	b. 21
c. 22	d. 23

49. The cost of a pack of 15 balls is Rs. 450 and a pack of dozen shuttle-cock is Rs. 84. If Raghu bought 1 ball and 1 shuttle-cock, how much would he pay to the shopkeeper?

a. ₹ 25	b. ₹ 37
c. ₹ 45	d. ₹ 53

50. The additive inverse of -23 is-

a. 23	b. 1/23
c. -1/23	d. 0

ENGLISH

Read the passage carefully and answer the questions that follow. Choose the right answer from the given alternatives: (51 – 55)

When Thomas was fifteen, he was a very intelligent and generous boy. He spent his day only reading, eating, and sleeping. Other than that, he didn't do anything. When the teachers of his class asked him any question, he would answer it very immediately.

He always kept himself away from social activities, but once when he was going to his school, he saw a very old man begging on the roadside.

At first, he thought that he should stop there and ask him why he was begging because he was too old to do that, instead, he should rest. At the same time, he realized that if he stopped there, he would be late for school.

He thought for a while and went to the old man. He saw that everyone was passing by him but no one was giving him alms. After seeing the incident, he took out twenty rupees from his pocket and gave them to the beggar. By doing that, he felt very good and reached the school gasping.

51. How did Thomas spend his day?

a. Only doing social activities	b. Only reading, eating, and sleeping
c. Only eating and sleeping	d. None of the above

52. Who did Thomas see on his way to school?

a. A hermit	b. A poor man
c. An old man	d. A poor woman

53. What did Thomas want to ask the old man?

a. The reason for begging	b. To eat healthy food.
c. To beg as much as he could	d. To rest instead of begging

54. What is the synonym of gasp?

a. Heave	b. Breath
c. Blow	d. Inhale

55. How much money did Thomas give to the beggar?

a. Thirty rupees	b. Twenty rupees
c. Fifteen rupees	d. Twenty-five rupees

56. 'Moonlight' is a compound word that is formed by

a. Noun + Noun	b. Adjective + Noun
c. Noun + Gerund	d. Both A and B

57. Identify the part of speech of the underline.
She prides **herself** on doing a good job

a. Noun	b. Pronoun
c. Adjective	d. Adverb

58. She will…………**(get)** you a new pair of jeans on your birthday.

a. Got	b. Gotten
c. Get	d. Getting

59. Identify the type of Adverb of underlined word.
He drives **carefully.**

a. Degree	b. Manner
c. Affirmation	d. Reason

60. Choose the best adjective to complete the sentence.
"Mary is very……. About her new job."

a. Excite	b. Excited
c. Excitement	d. Excitable

61. Choose the correct preposition to fill the blank space.
I must apologise……………. being late, my car broken down.

a. For	b. With
c. Upon	d. To

62. His doctor asked him to abstain…............ drinking.

a. With	b. From
c. Against	d. Upon

63. Our hoard is little, but our hearts are great.
Point out conjunction in the above sentence.

a. Our	b. Are
c. But	d. Little

64. He was so tired…................he could scarcely stand.

a. If	b. That
c. Neither	d. Either

65. Choose which part of speech the underline part belongs to:
Bravo! Well, done players.

a. Interjection	b. Abjection
c. Verb	d. Adverb

66. This is……… boy whom I saw yesterday.

a. The	b. A
c. An	d. None of these

67. A little book is like...............................mirror.

a. The	b. An
c. A	d. No article

68. Which of the following is the appropriate question tag in the sentence?
Raj plays the guitar…….

a. Hasn't he?	b. Doesn't he
c. Did he?	d. Has he?

69. There were..many mistakes in your dictation…………..?

a. Weren't they	b. Aren't there
c. Weren't there	d. Aren't they

70. Arrange the words in the meaningful sentence
The teachers/a/is/favourite/of all/ Ramesh.

a. Ramesh is a favourite of all the teachers.
b. Ramesh the teachers is favourite of all.
c. All the teachers is favourite of Ramesh.
d. Ramesh is a favourite of the teachers.

71. (A)the new project/(B)the managing director/ (C)about/(D)told us.

a. ADCB	b. BDCA
c. BACD	d. ACBD

72. They could help…..............another with the homework.

a. One	b. Both
c. Each	d. Many

73. Ram has given……...memorable performancesboth in India and abroad.

a. Both	b. Many
c. Much	d. One

74. Sita is 165cm tall. Geeta is 167cm tall. So, Geetais… than Sita.

a. Taller	b. Smaller
c. Shorter	d. Bigger

75. Choose the correct Synonyms of **MASSIVE**

a. Lump sum	b. Strong
c. Little	d. Huge

GENERAL KNOWLEDGE

76. What is the smallest bone in the human body?

a. Malleus	b. the stapes
c. sternum	d. none of these

77. what is the chemical formula for table salt?

a. H_2SO_4	b. NACL
c. HNO_3	d. K_2CO_3

78. Which instrument is used to convert mechanical into electrical energy?

a. Galvanometer	b. Dynamo
c. Telemeter	d. Voltmeter

79. what is OMR full form?

a. Optical mark reader	b. Optical mark Recognition
c. Optical magnetic Remark	d. Objective mark reader

80. A rank in the army which is the equivalent of the rank of air marshal in the Air Force is

a. Lieutenant general	b. Major general
c. Brigadier	d. Colonel

81. which of the following is a water borne disease?

a. Pneumonia	b. common cold

c. cholera	d. mumps

82. Which of the following diseases is caused by haemoglobin deficiency?

a. Anemia	b. Malaria
c. Cholera	d. Rabies

83. rearing and maintenance of honey bees and hives for honey is called

a. floriculture	b. apiculture
c. sericulture	d. pisiculture

84. where is swami Vivekananda airport located?

a. Gurgaon	b. Chhattisgarh
c. Bilaspur	d. Orissa

85. total population of India according to 2011 census how much is it ?

a. 108 crores	b. 121 crores
c. 140 crores	d. 120 crores

86. Which country is known as the 'land of the rising sun'?

a. Japan	b. China
c. South Korea	d. North Korea

87. Headquarters of world meteorological organization is?

a. New York	b. Geneva
c. Paris	d. Vienna

88. Mohiniattam dance form is most popular in which state?

a. Kerala	b. Tamil Nadu
c. Karnataka	d. Rajasthan

89. The capital city of Vietnam is?

a. Hanoi	b. Ulaanbaatar
c. Ho chi minh city	d. Vientiane

90. Who is the present defence minister of India?

a. Rajnath Singh	b. Amit shah
c. Piyush Goyal	d. Ashwani Vaishnav

91. Which is the largest lake in the world?

a. Lake Victoria	b. Lake Superior
c. Caspian Sea	d. Lake Baikal

92. In which state in the famous Somnath temple is located is?

a. Rajasthan	b. Madhya Pradesh
c. Gujrat	d. Maharashtra

93. The Bandipur national park is located in?

a. Rajasthan	b. Andhra Pradesh
c. Karnataka	d. Himachal Pradesh

94. Kilowatt – hour is a unit of?

a. Power	b. Energy

c. Time	d. Time

95. Third battle of Panipat 'was fought on….?

a. 14 January 1761	b. 31 august 1796
c. 26 November 1773	d. 08 April 1782

96. Which article of constitution provides Indian citizen 'right to equality '

a. Article 14	b. Article 12
c. Article 17	d. Article 13

97. What is the name of the lander of chandrayaan 3

a. Pragyaan	b. Ritu
c. Vikram	d. Somnath

98. What was the record for javelin throw in Neeraj Chopra Olympics gold?

a. 89.9m	b. 85.6m
c. 86.5m	d. 87.58m

99. Which country has won the title of intercontinental football cup 2023?

a. Lebanon	b. India
c. Germany	d. Magnolia

100. Who has inaugurated the new 'parliament house' of India?

a. Piyush Goyal	b. Draupadi murmur
c. Narendra Modi	d. S. Jaishankar

INTELLIGENCE

101. In a certain code SILK: NDGF :: SOIL ?

a. NJDG	b. NJDK
c. NJDH	d. NJGD

102. IF 'black' is called 'red', 'red is called 'white', 'white is called 'brown', 'brown is called 'yellow', 'yellow is called 'blue', 'blue is called 'green', then what is the colour of milk?

a. Red	b. Green
c. Brown	d. Yellow

103. If A= 1 and AND = 56, then DELHI =?

a. 14620	b. 17280
c. 18540	d. 15360

104. FIND THE ODD ONE OUT?

a. 4:48	6:180
8:448	9:639

105. Find the odd one out?

a. 17:102:204	b. 12:72:144
c. 14:90:180	d. 26:156:312

106. Find the odd one out?

a. Rhombus	b. Hexagon
c. Parallelogram	d. Ellipse

107. which two sign should be interchanged to make the given equation correct? $10 \div 5 - 4 \times 3 + 6 = 13$

a. + and ÷	b. – and ×
c. ÷ and ×	d. + and -

108. If 31 august 2008 was Sunday, then what was the day of the week on 30 august 2012?

a. Monday	b. Thursday
c. Tuesday	d. Wednesday

109. In a row of tress, a tree is 7 th from the left and 14th from the right end. How many trees are there in the row?

a. 18	b. 19
c. 20	d. 21

110. Arrange the words in a meaningful sequence? A.birth, B. death, C. graduation, D. degree, E. school

a. A, b, c , d, e	b. a, e , c d, b
c. e, c, d b, a	d. b, a, c, d, e

111. arrange in a logical order? A. rain B. Cooling, C . condensation, D. h e a t i n g , E. evaporation

a. b, a, c, d, e	b. e, d, a, b, c
c. b, c, a, d, e	d. d, e, b, c, a

112. which of the following words cannot be formed out of the word 'NOTEWORTHY'

a. worth	b. torn
c. hate	d. rent

113. which of the following words cannot be formed out word. 'SMOTHERS'

a. those	b. metro
c. store	d. none

114. series follow the pattern. 5, 6, 9, 14, 21?

a. 26	b. 28
c. 30	d. 34

115. Series follow the pattern. 1, 2 ,6 ,15, 31?

a. 56	b. 64
c. 60	d. 58

116. When sequentially placed at the gaps in the given letter series shall complete it? ab b aba abab

a. Abbaa	b. Bbaab
c. Abaab	d. Aaaba

117. complete the letter series. WXCD, UVEF, STGH, QRIJ?

a. OPKL	b. AYBZ
c. JIRQ	d. LRMS

118. Ram has a brother Shyam .ram is the son of Ramesh. Suresh is Ramesh's fathers. How Shyam is related to Suresh?

a. Son	b. Grandson

c. Brother	d. Grandfather

119. Divyanshi is facing north. she turns 180° in the anti- clock wise direction and then 225° in the clock wise direction. which direction is she facing?

a. West	b. north- east
c. south- west	d. east

120. how many triangles.

a. 12	b. 16
c. 14	d. 18

121. Mirror images.

EFFECTIVE
(1) ƎVITƆƎꟻꟻƎ
(2) EVITCEFFE
(3) ƎꟻꟻƆƆTIVƎ
(4) ƎVITƆƎꟻꟻ

a. 1	b. 2
c. 3	d. 4

122. Figure series.?

Problem Figures:

Answer Figures:

(A) (B) (C) (D) (E)   (1) (2) (3) (4) (5)

a. 1	b. 2
c. 3	d. 4

123. Opposite 5

a. 3	b. 2
c. 4	d. 6

124. Examination is related to' success' as 'match 'i s related to

a. Play	b. Win
c. Rafree	d. Goalkeeper

125. 'bull' is related to 'cow 'in the same way 'horse 'is related to-

a. Elephant	b. Mare
c. Colt	d. lion