

JEMAS(PG)-2022 MHA

1. The mode and mean is given by 7 and 8, respectively. Then the median is:
(A) $1/13$.
(B) $13/3$.
(C) $23/3$.
(D) 33.
2. If the sum of frequencies is 24, then the value of x in the observation: x, 5,6,1,2, will be:
(A) 4.
(B) 6.
(C) 8.
(D) 10.
3. The probability of event equal to zero is called:
(A) Unsure event.
(B) Sure Event.
(C) Impossible event.
(D) Independent event.
4. If two dice are thrown in the air, the probability of getting sum as 3 will be:
(A) $2/18$.
(B) $3/18$.
(C) $1/18$.
(D) $1/36$.
5. The shape of an ice-cream cone is a combination of:
(A) Sphere + cylinder.
(B) Sphere + cone.
(C) Hemisphere + cylinder.
(D) Hemisphere + cone.
6. If we change the shape of an object from a sphere to a cylinder, then the volume of cylinder will:
(A) Increase.
(B) Decrease.
(C) Remains unchanged.
(D) Doubles.
7. Two identical solid cubes of side 'a' are joined end to end. Then the total surface area of the resulting cuboid is:
(A) $12a^2$.
(B) $10a^2$.
(C) $8a^2$.
(D) $11a^2$.

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8. The decimal expansion of $22/7$ is:
(A) Terminating.
(B) Non-terminating and repeating.
(C) Non-terminating and Non-repeating.
(D) None of the above.
9. For some integer n , the odd integer is represented in the form of:
(A) n .
(B) $n + 1$.
(C) $2n + 1$.
(D) $2n$.
10. If p and q are integers and is represented in the form of p/q , then it is a:
(A) Whole number.
(B) Rational number.
(C) Natural number.
(D) Even number.
11. In the series 7, 10, 8, 11, 9, 12, ... What number should come next:
(A) 7.
(B) 10.
(C) 12.
(D) 13.
12. If 'air' is called 'green', 'green' is called 'red', 'red' is called 'sea', 'sea' is called 'blue', 'blue' is called 'water' and 'water' is called 'pink', then what is the color of grass?
(A) Green.
(B) Air.
(C) Red.
(D) Pink.
13. According to new terminology, 'Aries' means 'air', 'Taurus' means 'light', 'Libra' means 'water' and 'Scorpio' means 'earth'. What would an organism breathe in?
(A) Aries.
(B) Taurus.
(c) Libra.
(D) Scorpio.
14. Choose the word which is least like the other words in the group.
(A) Grenade.
(B) Sword.
(C) Shotgun.
(D) Rifle.

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15. If, in a language, 'one' is called 'two', 'two' is called 'three', 'three' is called 'four', 'four' is called 'five' and 'five' is called 'six'. Then what is the square of number 2?
(A) Three.
(B) Four.
(C) Five.
(D) Six.
16. If 'dog' is called 'lion', 'lion' is called 'bison', 'bison' is called 'snake', 'snake' is called 'mongoose', 'mongoose' is called 'crocodile', then which one is reared as pet?
(A) Lion.
(B) Bison.
(C) Snake.
(D) Mongoose.
17. Complete the series 1, 4, 8, 13, ?, 26
(A) 15.
(B) 19.
(C) 20.
(D) 21.
18. Read the following information to answer the given question. Starting from the point A, Jackie Chan walked 50 m towards west. He turned left and walked 20 m and did a summersault. He then turned left and walked 50 m and did a backflip. After this, he turned to his right and slowly walked 10 m. How far and in which direction is Jackie Chan from A?
(A) 30 m, South.
(B) 30 m, North.
(C) 40 m, South.
(D) 40 m, North.
19. B is in the East of A which is in the North of C. If P is in the South of C, then in which direction of B, is P?
(A) South-East.
(B) South-West.
(C) South.
(D) North.
20. Pointing to Raja, Rani said, "His mother's brother is the father of my son Rajkumar". How is Raja related to Rani?
(A) Niece.
(B) Nephew.
(C) Aunt.
(D) Sister.

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21. In a coded message, SLOW MOVE, GET BACKWARDS, FIRE AWAY is written as VFMD ZMWE, BEN PCTLDCOXU, QHOE CDCI. Based on this coding scheme, spot the codes for “SALTY”:
- (A) VCFNI.
 - (B) VCFIN.
 - (C) VCINF.
 - (D) VCHIN.
22. There are 16 teams divided into 2 pools of 8 each. Each team in a group plays against one another on a round-robin basis. The top four teams from each group will qualify for the next round i.e. round 2. In case of teams having the same number of wins, the team with better run-rate would be ranked ahead. Draws are not allowed. What is the minimum number of wins required to qualify for the next round?
- (A) 1.
 - (B) 2.
 - (C) 3.
 - (D) 4.
23. Every year, we have cases of dengue at the end of rainy season, but it turned out to be an epidemic this year. Which courses of action follows logically the above statement:
- I. Every five years, vaccination drive should be organized.
 - II. Awareness should be spread among people to get rid of the rubbish in their surroundings.
- (A) Only I follows.
 - (B) Only II follows.
 - (C) Either I or II follows.
 - (D) Neither I nor II follow.
24. “Cactus plants have fleshy stem and require little water”. Conclusions - I. All fleshy plants require less amount of water, II. Cactus plants may be grown in places where water is not in abundance. Which conclusion follows logically?
- (A) Only I follows.
 - (B) Only II follows.
 - (C) Either I or II follows.
 - (D) Neither I nor II follows.
25. Niranjan moved a distance of 150 m towards north. He then turned to the left and walked for about 50 m, turned left again and walked another 160 m. Finally, he turned to the right at an angle of 45° . In which direction was he moving finally?
- (A) South-west.
 - (B) South-east.
 - (C) North-west.
 - (D) North-east.
26. At what angle are the hands of a clock inclined at 15 minutes past 4?
- (A) 32°
 - (B) 37°
 - (C) 32.5°

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- (D) 37.5°.
27. In the following question, one term in the number series is wrong. Find the wrong term: 3, 8, 15, 24, 35, 49, 6.
- (A) 15.
 - (B) 35.
 - (C) 49.
 - (D) 63.
28. Choose the word which is least like the other words in the group.
- (A) Volcano.
 - (B) Tsunami.
 - (C) Avalanche.
 - (D) Explosion.
29. Choose the odd pair of words.
- (A) Boar – Sow.
 - (B) Beaver – Pup.
 - (C) Hawk – Eyas.
 - (D) Bee – Larva.
30. Choose the word which is least like the other words in the group.
- (A) Madagascar.
 - (B) Rhodes.
 - (C) India.
 - (D) Borneo.
31. The Reserve Bank of India released guidelines for outsourcing, targeted at which category of banks?
- (A) Regional Rural Banks.
 - (B) Cooperative Banks.
 - (C) Foreign Banks.
 - (D) Local Area Banks.
32. India has opposed the move by developed countries at World Trade Organisation (WTO), to scrap subsidies in which sector?
- (A) Fisheries.
 - (B) Pulses.
 - (C) Solar Energy.
 - (D) Horticulture.
33. Which bank has unveiled 'Digital Prayaas' an app-based digital-lending platform?
- (A) National Bank for Agriculture and Rural Development.
 - (B) National Housing Bank.
 - (C) Bank of Baroda.
 - (D) Small Industries Development Bank of India.

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34. What is the name of the process, where a business sells its invoices to a third party, at a discount?
- (A) Factoring.
 - (B) Crowd Funding.
 - (C) Venture Capital Fund.
 - (D) Working Capital.
35. Which bank has partnered with IIM Bangalore to provide funding for identified start-ups?
- (A) State Bank of India.
 - (B) Punjab National Bank.
 - (C) ICICI Bank.
 - (D) Indian Bank.
36. What is the maximum gap / interval between two sessions of parliament?
- (A) 30 days.
 - (B) 60 days.
 - (C) 6 months.
 - (D) 12 months.
37. Who among the following put forward the idea of Constituent Assembly for India for the first time?
- (A) Jawaharlal Nehru.
 - (B) Sardar Vallabhbhai Patel.
 - (C) Dr. Rajendra Prasad.
 - (D) M. N. Roy.
38. Which system of government is also known as Westminster model of government?
- (A) Presidential system.
 - (B) Monarchy.
 - (C) Parliamentary system.
 - (D) Oligarchy.
39. Which of the following is not the exclusive domain of Union government?
- (A) Defence.
 - (B) Foreign affairs.
 - (C) Communication.
 - (D) Health.
40. Who has the power to remove the President of India?
- (A) Parliament.
 - (B) Rajya Sabha.
 - (C) Supreme Court.
 - (D) Chief Justice of India.

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41. Agriculture, Irrigation and Power Projects were given highest priority in which among the following plans?
- (A) First Five Year Plan.
 - (B) Second Five Year Plan.
 - (C) Third Five Year Plan.
 - (D) Fourth Five Year Plan.
42. Which among the following correctly denotes Reserve Money?
- (A) Currency in circulation.
 - (B) Currency in Circulation + Other deposits of the General Public with RBI.
 - (C) Currency in circulation + Other deposits of the general Public with RBI + Cash held with the banks.
 - (D) Currency in circulation + Other deposits of the general Public with RBI + Cash held with the banks + Banker's Deposits with RBI.
43. Headquarters of Indian Patent Office is located at?
- (A) Chennai.
 - (B) Mumbai.
 - (C) Kolkata.
 - (D) Hyderabad.
44. From the given options, bring out the one which is not a function / power of Reserve Bank of India:
- (A) To assume the responsibility of meeting directly or indirectly all reasonable demands for accommodation.
 - (B) To hold cash reserves of the commercial banks and make available financial accommodation to them.
 - (C) To enjoy monopoly of the note issue.
 - (D) To assume the responsibility of statistical analysis of data related to macro economy of India.
45. After recommendations of which of the following committees, Universal Banking got properly conceptualized in India?
- (A) Padmanabhan Committee.
 - (B) R H Khan Committee.
 - (C) First Narsimham Committee.
 - (D) Second Narsimham Committee.
46. The consumer price index is based on which price?
- (A) Retail price.
 - (B) Wholesale price.
 - (C) Both Wholesale and retail price.
 - (D) None of the price.

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47. What is the amount of paper consumed by the Newspaper and publication industry?
(A) 3 million tones.
(B) 2 million tones.
(C) 4 million tones.
(D) 1.5 million tones.
48. Which among the following is the effect of currency devaluation?
(A) Increase in imports.
(B) Decrease in inflation.
(C) Increase in exports.
(D) None of the above.
49. What is the full form of OPEC?
(A) Organization of petroleum exporting countries.
(B) Organization of petroleum exploring countries.
(C) Organization of plastic exporting countries.
(D) Organization of plastic extraction countries.
50. The first nuclear power plant in India is established at which place?
(A) Trombay.
(B) Tarapur.
(C) Srihorikota.
(D) Kozhikode.
51. ELISA test and Western blot test are conformity tests for _?
(A) Swine Flu.
(B) Bird Flu.
(C) AIDS.
(D) Chikungunya.
52. Which among the following is not a 'hereditary' disease?
(A) Thalessemia.
(B) Colour-Blindness.
(C) Haemophilia.
(D) Leukemia.
53. Who among the following analysed the DNA for the first time?
(A) Watson and Krick.
(B) Karl von Frisch.
(C) M. W. Nirenberg.
(D) Hargobind Khurana.
54. What are the two main technologies that enabled the birth of modern biotechnology?
(A) Red biotechnology and green biotechnology.
(B) Classical and traditional biotechnology.
(C) Genetics and mathematics.
(D) Genetic engineering and maintenance of a sterile environment.

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55. Which of the following prevents bleeding of gums?
(A) Nicotinamide.
(B) Ascorbic acid.
(C) Thiamine.
(D) Vitamin B.
56. The phrase Survival of the fittest as a way of describing the mechanism of natural selection was coined by ____:
(A) Charles Babbage.
(B) Louis Pasteur.
(C) Marie Curie.
(D) Herbert Spencer.
57. Which part of brain is also known as “little brain”?
(A) Cerebrum.
(B) Cerebellum.
(C) Thalamus.
(D) Hypothalamus.
58. Which of the following is not an endocrine gland?
(A) Pituitary.
(B) Thyroid.
(C) Adrenal.
(D) Spleen.
59. Which of the following cell organelle is responsible for cellular respiration?
(A) Golgi bodies.
(B) Mitochondria.
(C) Lysosomes.
(D) Nucleus.
60. A low birth weight baby means the birth weight is:
(A) Less than 2.5 Kg.
(B) Less than 2.8 Kg.
(C) Less than 3.0 Kg.
(D) None of these.
61. The commonest system affected with Hospital Acquired Infection:
(A) Respiratory system.
(B) Nervous system.
(C) Skeletal system.
(D) Urinary system.
62. The cell organelle not present in animal cells is:
(A) Nucleus.
(B) Cell wall.
(C) Mitochondria.
(D) Golgi apparatus.

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63. Consumption of excess of which of the following is implicated with development of diabetes:
- (A) Carbohydrate.
 - (B) Fat.
 - (C) Protein.
 - (D) Vitamin.
64. Restriction of intake of salt is specifically related to prevention of:
- (A) Hypertension.
 - (B) Cataract.
 - (C) Breast cancer.
 - (D) Osteoporosis.
65. Snellen's chart is used to diagnose:
- (A) Obesity.
 - (B) Cervical carcinoma.
 - (C) Colour blindness.
 - (D) Visual acuity.
66. Census is carried out at an interval of:
- (A) 3 years.
 - (B) 5 years.
 - (C) 10 years.
 - (D) 12 years.
67. The normal chromosomal pattern of a female is:
- (A) 46 XY.
 - (B) 46XX.
 - (C) 47 XX.
 - (D) 45 XO.
68. Fat is utilized in human body to all except:
- (A) Synthesis of Hormones.
 - (B) Synthesis of protecting antibodies.
 - (C) Synthesis of covering of nerve cells.
 - (D) Production of energy.
69. Which of the following is called as "poor man's protein"?
- (A) Wheat.
 - (B) Rice.
 - (C) Dal.
 - (D) Vegetable.

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70. Sunlight is essential for the production of:
- (A) Vitamin A.
 - (B) Vitamin D.
 - (C) Vitamin E.
 - (D) Vitamin K.
71. Which of the following is the essential element for batteries used in electric cars?
- (A) Magnesium.
 - (B) Lithium.
 - (C) Sodium.
 - (D) Bromine.
72. Which among the following is called Laughing Gas popularly?
- (A) Nitric oxide.
 - (B) Nitrous oxide.
 - (C) Nitrogen penta oxide.
 - (D) Nitrogen.
73. Which of these is NOT a compound of carbon?
- (A) Acetic acid.
 - (B) Chloroform.
 - (C) Caustic Soda.
 - (D) Methane.
74. What do we call the process that separates a pure solid in the form of its crystals from a solution?
- (A) Crystallisation.
 - (B) Sublimation.
 - (C) Chromatography.
 - (D) Distillation.
75. Which of the following is the simplest member of organic compounds?
- (A) Formic acid.
 - (B) Formaldehyde.
 - (C) Methane.
 - (D) Methanol.
76. Hydrocarbons are organic compounds with element _____
- (A) Both hydrogen and carbon.
 - (B) Carbon.
 - (C) Hydrogen.
 - (D) Oxygen.
77. Which of the following is not a class of organic compounds?
- (A) Amides.
 - (B) Electro compounds.
 - (C) Nitro compound.
 - (D) Carbonyl compound.

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78. Which of the following is neither an acid nor base?
(A) KCl.
(B) CH₃OH.
(C) HCl.
(D) CH₃COOH.
79. Which of the following compound is used to depress the Central nervous system?
(A) Iodoform.
(B) DDT.
(C) Freon.
(D) Chloroform.
80. There are several levels of protein structure, which is the most complex protein?
(A) Primary.
(B) Secondary.
(C) Tertiary.
(D) Quaternary.
81. Change the voice: "Rahul will pass the message".
(A) The message will passed by Rahul.
(B) The message would be passed by Rahul.
(C) The message will pass by Rahul.
(D) The message will be passed by Rahul.
82. Change the voice: Who can count the stars in the sky?
(A) By whom can the stars in the sky be counted?
(B) By whom can be stars in the sky counted?
(C) By whom could the stars be counted in the sky?
(D) By whom could the stars in the sky be counted?
83. Change the voice: He was disgusted with the flattery of his assistant.
(A) The flattery of his assistant disgusted him.
(B) His assistant flattery had disgusted him.
(C) He was disgusted with his assistant for his flattery.
(D) The flattery of this assistant will disgust him.
84. Rectify the sentence: Had he realised how close he was to failing, he would not have gone to the party.
(A) There is no error in the sentence.
(B) If he would have realised how close he was to failing, he would not have gone to the party.
(C) Had he had realised how close he was to failing, he would not have gone to the party.
(D) When he realized how close he was to failing, he did not go to the party.

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85. Rectify the sentence: Because of his tennis elbow injury, Pete Sampras has not and possibly never will be able to pick up the bat again.
- (A) Because of his tennis elbow injury, Pete Sampras has not and possibly never will be able to pick up the bat again.
 - (B) Because of his tennis elbow injury, Pete Sampras has not and possibly will never be able to pick up the bat again.
 - (C) Because of his tennis elbow injury, Pete Sampras has not been and possible never would be able to pick up the bat again.
 - (D) Because of his tennis elbow injury, Pete Sampras has not been able to and possibly never will be able to pick up the bat again.
86. Rectify the sentence : Having bowed our heads, the priest in the temple led us in prayer.
- (A) Having bowed our heads, the priest in the temple led us in prayer.
 - (B) After we bowed our heads, the priest in the temple led us in prayer.
 - (C) After we had bowed our heads, the priest in the temple led us in prayer.
 - (D) After having bowed our head, the priest in the temple led us in prayer.
87. Change the speech of the sentence: “The sage said, God helps those who help themselves”.
- (A) The sage said that God helps those who help themselves.
 - (B) The sage said that God helped those whose helped themselves.
 - (C) The sage said that God helps those who helped themselves.
 - (D) The sage said God will help those who will help themselves.
88. Change the speech of the sentence: “He said, I clean my teeth twice a day.”
- (A) He said that he cleaned his teeth twice a day.
 - (B) He said that he cleans his teeth twice a day.
 - (C) He said that he used to clean his teeth twice a day.
 - (D) He said that he is used to cleaning his teeth twice a day.
89. Change the speech of the sentence: “The teacher said, Be quiet, boys.”
- (A) The teacher said that the boys should be quiet.
 - (B) The teacher called the boys and ordered them to the quiet.
 - (C) The teacher urged the boys to be quiet.
 - (D) The teacher commanded the boys that they be quiet.
90. Insert the correct word; “Nordisk have recently _____ a product called Glucometer.
- (A) Started.
 - (B) Commissioned.
 - (C) Launched.
 - (D) Begun.
91. Insert the correct word; “Samir asked me to keep this secret _____.”
- (A) Secret.
 - (B) In myself.
 - (C) Amongst us.
 - (D) Between us.

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92. Find the meaningful alternative of “To drive home”.
- (A) To find one's roots.
 - (B) To return to place of rest.
 - (C) Back to original position.
 - (D) To emphasize.
93. Find the meaningful alternative of: “To leave someone in the lurch”
- (A) To come to compromise with someone.
 - (B) Constant source of annoyance to someone.
 - (C) To put someone at ease.
 - (D) To desert someone in his difficulties.
94. Rectify the underlined portion “All the allegations leveled against him were found to be baseless.
- (A) Levelled for.
 - (B) Level with.
 - (C) Level against.
 - (D) No correction required.
95. Rectify the underlined portion: What are needed are not large houses but small cottages.
- (A) Were.
 - (B) Was.
 - (C) Is.
 - (D) None of the above.
96. Rectify the underlined portion: Sumit would have been looked smart in traditional clothes.
- (A) Was looked.
 - (B) Would be looked.
 - (C) Had looking.
 - (D) Would have looked.
97. Rectify the underlined portion: Hardly had I finished writing the letter before Anil arrived.
- (A) Then.
 - (B) While.
 - (C) When.
 - (D) As.
98. Find the wrong portion: If you would have / toiled hard you / would not have had / to suffer this much.
- (A) If you would have.
 - (B) Toiled hard you.
 - (C) Would not have had.
 - (D) To suffer this much.

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99. Find the wrong portion: Every teacher / and every student / of this school is determined to do their best / for the benefit of all.

- (A) Every teacher.
- (B) And every student.
- (C) Of this school is determined to do their best.
- (D) For the benefit of all.

100. Find the wrong portion: There were / five active workers / and three lazy one / in the factory.

- (A) There were.
- (B) Five active workers.
- (C) And three lazy one.
- (D) In the factory.