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INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, MOHALI

Question paper for the post of Junior Assistant (M.S)

MAY, 2025

Max Time : 1 hour

Name .....

Instructions to Candidates:

1. The test booklet 6 numbered pages, (comprising 5 typed and 1 blank page) contains 50 multiple choice questions (MCQs) each with one correct answer carrying TWO marks **(negative 0.50 mark for each wrong answer)** (TOTAL = 100 MARKS: TIME = 1 HOUR

2. If a question is left blank/unanswered, there will be no penalty for that question.

3. If a candidate encircles more than one answer, it will be treated as wrong answer even if one of the given answers happens to be correct and there will be penalty of 0.5 marks deduction.

4. Please mark your answers in BLACK / BLUE pen.

Please return the Test booklet after the examination is over.

Signature of the candidate Signature of the Invigilator

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OFFICE USE

Roll No.	Marks obtained

Signature of the Evaluator

1. Dactylogram is related with
A) Teleprinter B) Earth Quake C) Cereals D) finger print

2. Which one of the following films directed by Satyajit Ray is based on the story Nastanirh written by Rabindranath Tagore?
A) Apara Jita B. Charulata C. PatharPanchali D. Apur Sansar

3. When is the International Chess Day observed annually
A) 9th July B) 21st July C) 20th July D) 22nd July

4. What is the lightest element in the periodic table
A) Hydrogen B) Boron C) Lanthanum D) Chlorine

5. Indian Penal Code Section 420 (Cheating) is now covered under
A) Bharatiya Nyaya Sanhita Section 318 B) Bharatiya Nyaya Sanhita Section 101
C) Bharatiya Nyaya Sanhita Section 187 D) Bharatiya Nyaya Sanhita Section 191

6. Which portal has been launched by the Reserve Bank of India to track Unclaimed Deposits deposited in banks?
A) Vishwas Portal B) MADAD Portal C) UDGAM Portal D) Sahaj Portal

7. Which City is called "Detroit of Asia"
A) Bengaluru B) Chennai C) Hyderabad D) Mumbai

8. Which is the incorrect statement from the following :
A) Floriculture - flower farming B) Silviculture – raising butterflies
C) Apiculture - raising bee colonies D) Sericulture - raising silkworms

9. The pairs of chromosomes present in human beings somatic cells are:
A) 23 B) 45 C) 48 D) 20

10. The fuse in electrical circuits has:
A) Low resistivity, high melting point B) High resistivity, low melting point
C) Low resistivity, low melting point D) High resistivity, High melting point

11. In a certain code language, **'PENCIL'** is written as **'MKFRJV'** and **'ERASER'** is written as **'SGVEWK'**. How will 'MASTER" be written in that language ?
A) SGWWFS B) RFWVES C) REWWGT D) SFWYFT

12. If the day before yesterday was Saturday, what day is it tomorrow?
A) Monday B) Tuesday C) Wednesday D) Thursday E) None of the above

13. No cats are dogs. All dogs are animals. Therefore:
A) No cats are animals B) Some animals are cats C) All cats are animals
D) few cats are dog E) None of the above

14. In a class, Raj is taller than Priya but shorter than Ankit. Priya is taller than Ravi. Who is the tallest?
A) Raj B) Priya C) Ankit D) Ravi E) None of the above

15. A train crosses a pole in 12 seconds and a platform of length 240 meters in 24 seconds. What is the length of the train?
A) 180 meters B) 200 meters C) 240 meters D) 300 meters E) None of the above

16. The following table shows the sales (in ₹) of a company over 5 years:

Year	Sales (₹)
2018	50,000
2019	60,000
2020	70,000
2021	80,000
2022	90,000

What is the average annual growth rate (in %) of sales from 2018 to 2022?
A) 15% B) 16% C) 17% D) 18 E) None of the above

17. If the first and second letters in the word 'CONTRIBUTION' were interchanged, also the third and fourth letters, the fifth and sixth, and so on, which letter would be the tenth from the right?
A) I B) U C) B D) N E) None of the above

18. Mohan was facing east. he walked 4 km forward and then after turning to his right walked 3 km. Again he turned to his right and walked 4 km. After this he turned back. Which direction was he facing at that time?
A) East B) West C) North D) South

19. Seven people are sitting in a straight row all facing towards north. E is not an immediate neighbour of M and N. N is also not an immediate neighbour of M. M is sitting4th to the right of L. I is sitting on extreme right end of the row. N is sitting fourth to the left of B. P is sitting third to the left of M and second to the right of N. Who is sitting at extreme left ends ?
A). N B). P C) E D). I E) None of these

20. If the LCM of two numbers is 5544 and their HCF is 12, one of the numbers is 144. Find the other number.
A) 462 B) 384 C) 432 D) 528 E) None of the above

21. If the salary of a person is increased by 25% and then decreased by 20%, what is the net percentage change?
A) 2% decrease B) 4% increase C) 0% D) 2% increase E) None of the above

22 Two dice are rolled. What is the probability of getting a sum of 8?
A) 5/36 B) 1/6 C) 1/8 D) 4/36 E) None of the above

23. A solution contains 40% alcohol. 5 liters of solution is removed and replaced with pure water. If the final concentration is 32%, what is the original quantity of the solution?
A) 15 liters B) 20 liters C) 25 liters D) 30 liters E) None of the above

24. What is the probability that a randomly chosen two-digit number is divisible by both 3 and 4?
A) 1/6 B) 1/8 C) 4/45 D) 1/10 E) None of the above

25. A is the father of B. C is the mother of B. How is C related to A?
A) Mother B) Sister C) Wife D) Daughter E) None of the above

26 The ratio of ages of two persons is 4:5. After 6 years, their ratio becomes 5:6. Find their present ages.
A) 24 and 30 B) 20 and 25 C) 28 and 35 D) 32 and 40 E) None of the above

27. A boat takes 3 hours to travel downstream 36 km and 5 hours to return upstream the same distance. Find the speed of the stream.
A) 2 km/h B) 2.4 km/h C) 4 km/h D) 5 km/h E) None of the above

28. A and B can complete a work in 15 days and 20 days, respectively. They work together for 4 days, then A leaves. How long will B take to complete the remaining work?
A) 10.67 days B) 8.57 days C) 9.27 days D) 7.50 days E) None of the above

29. A number, when divided by 7, leaves a remainder of 5. If its square is divided by 7, what will be the remainder?
A) 2 B) 3 C) 4 D) 5 E) None of the above

30. Which of the following natural element is the primary element in computer chips?
A) Silicon B) Carbon C) Iron D)Uranium E) None of the above

31. UNIVAC is
A) Universal Array Computer B) Universal Automatic Computer C) Unique Automatic Computer
D) Unvalued Automatic Computer E) None of these

32. Which of the following is system software?
A) Linux B) Word C) Excel D) Power Point E) None of the above

33. How many color dots make up one colour pixel on a screen?
A) 265 B) 16 C) 8 D) 3 E) None of the above

34. Which of the following is the extension of Notepad?
A) .doc. B) .xls C) .ppt D) .bmp E) None of the above

35. Which one of the following groups contains graphical file extensions?
A) JPG, CPX, GCM B) GIF, TCE, WMF C) TCP, JPG, BMP D) JPG, GIF, BMP E) None of the above

36. Which of the following is equal to a gigabyte?
A) 1024 bytes B) 512 GB C) 1024 megabytes D) 1024 bits E) None of the above

37. Microprocessors as switching devices are for which generation computers
A) First Generation B) Second Generation C) Third Generation D) Fourth Generation

38. One millisecond is
A) 1 second B) 10^{th} of a seconds C) 1000^{th} of a seconds
D) 10000^{th} of a seconds E) None of the above

39. Which of the following is not output device?
A) Printer B) VDU C) Scanner D) All of the above E) None of the above

40. A staff member while proceeding on study leave is required to execute a bond to serve for a period of .....after the expiry of study leave
A) One Year B) Two Years C) Three years D) None of these

41. The lumpsum incentive for acquiring PhD as a higher qualification is :
A) Rs 10000 B) Rs 15000 C) Rs 20,000 D) Rs 30,000

42. Composite Transfer Grant is .....% of basic pay
A) 70 B) 80 C) 90 D) None of these

43 In the event of late delivery of goods, the total liquidated damages shall not exceed ..... % of the value of the delayed goods.
A) 2 B) 5 C) 7.5 D) 10

44. As per FR & SR, the basic pay & NPA payable together, to any Govt. servant, should not exceed .....
A) Rs.2,25,000 B) Rs.2,37,500 C) Rs.2,50,000 D) Rs.2,62,500

45. As per TA rules, when an employee in Pay Level-6 is on tour, he/she is eligible for reimbursement for hotel accommodation / guest house up to _____ per day.
A) Rs.450/- B) Rs.2250/- C) Rs.937.50/- D) Rs.750/

46. Group "B" employee has to report to the office on receipt of a gift exceeding Rs ..... received from near relatives.
A) Rs 25,000/- B) Rs 20,000/- C) Rs 15,000/- D) Rs 7,500/-

47. In case of import purchases, which one of the following INCOTERM is most beneficial to the Importer:
A) Ex-works B) FOB C) CIF D) DDP

48. The minutes of the proceedings of a meeting of the Senate shall be drawn up by the ?
A) Dean B) Registrar C) Director D) Librarian

49. The Finance Committee shall meet as often as may be necessary but at least .....times in a year.
A) Two B) Three C) Four D) One

50. As per the Statues, for conferment of honorary degrees, the assent of which one of the following authorities is final ?
A) The Senate B) The BoG C) The Visitor D) The Ministry of Education

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