SOLDIER TRADESMAN

MAXIMUM MARKS : 100 **TIME :** 60 MINUTES

PASS MARKS : 32 **MODEL TEST :** 12

INTRUCTIONS FOR THE CANDIDATES

1. Do not open answer book till ordered.
2. Question paper consists of two sections (Section A and Section B). Both the sections are compulsory. Answer to both sections will be marked only on the OMR Sheet which will be issued by Exam Centre. Candidates will not use question paper to answer the questions. Candidate has to score min. of 32 marks each in section A and B separately and a min of 80 marks in total to qualify in the exam.
3. Use only blue/black ball point pen to mark your answer on OMR Sheet. Use of pencil is strictly prohibited
4. Do not write any revealing identification in the OMR Sheet. Such candidates will be DISQUALIFIED.
5. space provided on page 2may be used for Rough work.
6. After the termination of test please return the question booklet along with the OMR sheet to the Invigilator.
7. Please ensure that you have got the correct question paper and OMR Sheet

INSTRUCTIONS FOR INVIGILATION BOARD

8. Invigilation board will ensure that all candidates comply with the above instructions.
9. Invigilation board will explain the method and Do's and Donts regarding filling up of OMR Sheet.
10. On completion of examination the invigilation board will go through the work script and cross out with' Green ink any part of answer sheet left blank by the candidates. The answer sheets will be packed after ensuring the action.
11. PresidingOfficerwillannouncethesetnumberofthequestionpaperadministeredafterdistributing.the question paper and will ensure that all the candidates have got the required set number.
12. InvigilationBoardwillensurethatallcandidatescomplywiththeaboveinstructions./Answers to all questions will be marked on OMR Sheet and this will be provided in situ by the Exam Centre.

MUPPADAI TRAINING ACADEMY - VELLORE, TRICHY

GENERAL KNOWLEDGE

1. What is the name of the Light Combat Aircraft developed by the enously?
   A) Brahmos B) Chetak C) Astra D) Tejas

2. The most modern Indian warship is named :
   A) Kesri B) Mandakini C) Trishul D) Mysore

3. The longest day in Southern Hemisphere is :
   A) 22 June B) 22 December C) 21 March D) 22 September

4. 2024 Olympic games will be played at?
   A) Tokyo B) Paris C) New Delhi D) London

5. Mr. Ramnath Kovind is President of India?
   A) 11th B) 10th C) 14th D) 13th

6. With which game is "Duleep Trophy' associated?
   A) Hockey B) Football C) Cricket D) Tennis

7. How many languages are recognised as regional languages in the Constitution?
   A) 12 B) 13 C) 14 D) 22

8. On which day is "Human Rights Day" observed?
   A) 1st Dec B) 10th Dec C) 8th Mar D) None of these

9. Which country's national flag is not rectangular in shape?
   A) Japan B) North Korea C) Nepal D) Australia

10. In which year did Dr. CV Raman receive Nobel prize?
    A) 1930 B) 1941 C) 1951 D) 1961

11. Who was the first Indian to receive 'Bharat Ratna??
    A) Mahatma Gandhi B) Indira Gandhi
    C)Dr .S. Radhakrishnan D) Jawahar Lal Nehru

12. In terms of area, which is the smallest state in India?
    A) Assam B) Sikkim C) Goa D) Kerela

13. Name the first Woman Astronaut to represent NASA?
    A) P.T. Usha B) Kalpana Chawla
    C) Anju Bobby D) Mrs. Leela Seth

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14. Which Human organ is affected by consumption of food adulterant?
A) Heart B) Lungs C) Kidney D) Liver

15. Tipu Sultan was the ruler of:
A) Hyderabad B) Bijapur C) Mysore D) Kanauj

REASONING

16. Find out the missing term in the following series.
66, 56, 48,?,38,36
A) 46 B)44 C) 42 D) 40

17. In the following question the first two words have a common relationship. Choose one word out of the given four alternatives, which will replace the question mark, having same relationship with the third, as the given pair has:
January: November :: Sunday:?
A) Tuesday B) Monday C) Friday D) Saturday

18. If "ORGANISATION" is coded as "CBDWLQJ WYQCL" and "OPERATION" is coded as "CXFBWYQCL". Then how can"SEPARATION" be coded?
A)EJXEBEYQCL B)JFQYWBCXQL
C) JFXWBWYQCL D) QCLYWBFXJE

19. In question the given letters are rearranged, it forms a word which belongs to one of the four response options.
JIRBNAL
A) River B) Vegetable C) Mountain D) City

20. A man is facing south. He turns 135° in the anticlockwise directions and then 180° in the clockwise direction. Which direction is he facing now?
A) North-east B) North-west C) South-east D) South-west

GENERAL SCIENCE

21. The best source of protein out of the following is :
A) Fish B) Beans C) Apples D) Butter

22. Beri is caused by the deficiency of vitamin :
A) A B) B C) D D) C

23. Reproduction is of ..... types
A) 1 B)2 C) 4 D) 3

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24. Which is the largest bone in the human body?
A) Femur B) Humerus C) Radius D) Tibia

25. Power house of cell is.....
A) Globulins B) Keratin C) Mitochondria D) Cellulose

26. The formula of Ammonium Chlorides ...
A) NH_4Cl_4 B) NH_4Cl C) NH_4Cl_2 D) None of these

27. RBC stands for
A) Red blood corpuscles B) White blood corpuscles
C) Red Cuticles D) None of these

28. What is chemical symbol of Sodium?
A) Sa B)K C) Na D) P

29. Science dealing with plant life is –
A) Mycology B) Botany C) Zoology D) Seismology

30. How many bones are there is human body?
A)206 B)208 C)210 D) None of these

31. Which metal is found maximum on earth?
A) Sodium B) Calcium C) Iron D) Aluminium

32. Lens curved inward is called
A) Mirror B) Concave C) Bifocal D) None of these

33. Viruses are :
A) Living Organism B) Non-living C) Proteins D) a & b both

34. One of common fungal disease of man is: DIRECTEUR
A) Cholera B) Plague C) Typhoid D) Ring Worm

35. The theory of acquired character is advocated by :
A) Mendel B) Darwin C) Lamark D) Linnaeus

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MATHEMATICS

36. Area of a square is 1024, length of its sides are
A) 32 cm B) 64 cm C) 12 cm D) None of these

37. Find the value of x, if x + 12 = 28
A)-2 B) 8 C)4 D)2

38. A train 450 m long crosses a pole in 22/2 seconds. What is the speed of train in Km/h?
A) 36 Km/h B) 40 Km/h C) 72 Km/h D) 45 Km/h

39. Volume of sphere is
A) $\frac{4}{3}\pi R^3$ B) $\frac{2}{3}\pi R^3$ C) $\frac{3}{4}\pi R^3$ D) $\frac{3}{2}\pi R^3$

40. IfA+B+C got 150 votes. A + C got 96 votes and B + C got 74 then find the votes of each separately
A) a= 76, b = 54, c= 20 B) a= 74, b= 54, c=40
C)a=40,b=64, c= 20 D)a= 76, b= 54, c= 50

41. Which of the following is correct?
A) $a^3 + b^3 = (a + b)^3 – 3ab (a + b)$
B) $a^3 – b^3 = (a - b)^3 + 2ab$
C) $a^3 + b^3 = (a - b)(a^2 + 2ab + b^2)$
D) $a^3 – b^3 = (a - b)^3 – 2 ab$

42. The sum of the angles of a quadrilateral is :
A) 180° B) 300° C)360° D) 260°

43. What are the factors of $x^3 – 87^3$?
A) $(x – 2y) (x^2 + 2xy + 4y)$
B)$(x – 2y) (x^2 - 4xy + y^2)$
C) $(x – 2y) (x^2 - 2xy + 4y^2)$
D) None of these

44. Choose the H.C.F. of 144, 180 and 192:
A) 10 B) 8 C) 12 D) None of these

45. What is the formula to calculate curved surface area of a hemisphere of radius r?
A) $\frac{2}{3}\pi R^2$ B) $2\pi R^2$ C) $\frac{1}{3}\pi R^2$ D) πR^2

46. What is a point called, where all the three medians of a triangle meet?
A) Ortho Centre B) Circumcentre C) Centroid D) None of these

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47. Complete the following: 12,7, 2, -3, -8,...

A) 5 B) – 5 C)- 13 D)3

48. 22 +52 +82 +112 =?

A) 314 B)224 C)214 D)218

49. $(8)^{1/3}+(27)^{1/3}=?$

A) 4 B) 5 C) 6 D) 3

50. The place value of 6 in number 96048 is :

A) 4000 B) 5000 C)5500 D)6000

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Answer Key

1.	D	11.	C	21.	B	31.	D	41.	A
2.	A	12.	C	22.	B	32.	B	42.	C
3.	D	13.	B	23.	B	33.	D	43.	A
4.	B	14.	D	24.	A	34.	D	44.	C
5.	C	15.	C	25.	C	35.	C	45.	B
6.	C	16.	C	26.	B	36.	A	46.	C
7.	D	17.	C	27.	A	37.	C	47.	C
8.	B	18.	C	28.	C	38.	C	48.	C
9.	C	19.	B	29.	B	39.	A	49.	B
10.	A	20.	D	30.	A	40.	A	50.	D

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