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MUPPADAI TRAINING ACADEMY – VELLORE

INDIAN COAST GUARD

Section I

Time – 45 minutes

Instructions

- 1. There are total 60 question in this section.
- 2. All question have four choices out of which only one is correct.
- 3. There is no negative marking.

Maximum Marks – 60

- 1. Find the unit place of 3674 x 8596 + 5699 x 1589 A) 3 B) 4 C) 5 D) 6
- 2. What will be the highest three digit number which when divided by 3, 7 and 21 leaves remainder 2?

B) 982
D) 989

- 3. Two persons A & B travelling towards each other from P & Q respectively which is 396 kms apart meet after 11 hours. Speed of A is 6 kms/hr more than B. Find the speed of B. A) 15
 B) 18
 C) 21
 D) 24
- 4. Train travelling at a speed of 90 km/hr crosses a man standing on a platform in 8 seconds. Find the time taken by the train to cross the platform of length 250 kms.
 A) 15 sec

A) 15 Sec	D) TO SEC
C) 18 sec	D) 20 sec

5. There are three numbers A, B and C. A is 50% of C and B is 75% of C, then A is what percentage of B?

A) 66.66%	B) 50%
C) 75%	D) 80%

6. A = 36% B, B = 6% C. If C = 100 then A is equal to – A) 2.18 B) 2.21
C) 2.16 D) 2.24

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7. A shopkeeper pure Rs.35/kg and	chased two qualities of rice	A & B. He bought 10 kg of rice A at
20 kg rice B at Rs. rice.	47/kg. Find the overall cost	price per kgs if he mixes both types of
A) 43	B) 42	
C) 41	D) 40	
8. Sachin has a battin innings. If he were by him in his 80th	ng average of 99 in 80 innin to have a batting average of match?	gs. He was out for duck in his 80th of 100 how much should have been scored
A) 80	B) 180	
c) 99	D) 100	
9. A and B together o same task in 6 day A) 8	can complete a particular ta rs, how many days will B ta B) 7	sk in 4 days. If A alone can complete the ke to complete the task if he works alone?
C) 12	D) None	e of these
10. If the perimeter of the breadth is 7 m	a rectangle is 138 metres a etres, what is the area of th	nd the difference between the length and e rectangle?
C) 1184 square me	tres D) 1178	square metres
11. What will come in 25% of 84 × 24% of	place of question mark (?) f 85 =?	in the following question?
A) 144.4	B) 244.4	4
C) 428.4	D) 333.4	4
12. If in a triangle ABC	C, AB = AC, $\angle A = x + 15^\circ$, $\angle B$	B = 2x + 25° then value of ∠C
C) 61°	D) 41°	
13. A point P is locate circle at A and a so 16cm. Find the len	d outside the circle with ce ecant from P cuts the circle gth of chord BC.	ntre O. A tangent from point P touches the at B and C respectively. PA =12cm PC=
A) 12	B) 8	
C) 9	D) None	e of these
14. If sin A + sin2A = 1	then what is the value of c	os2A + cos4A?
A) 0	B) 1	
C) -1	D) 2	
15. The length of a rec What is the per ce A) 9% increase	tangular field is increased nt increase or decrease in i B) 21%	by 30% and breadth is decreased by 30%. ts area? decrease
C) 21% increase	D) 9% i	ncrease
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the value of abc?	
A) 23	B) 24
C) 25	D) 26
17 The value of x for which the express	ions 19 - 5x and 19x + 5 become equal is
	B) 7/12
C) $11/12$	D) 11/24
0) 11/12	5) 11/24
18. If $x + y = 10$ and $x^2 + y^2 = 68$, then find	d xy
A) 18	B) 24
C) 17	D) 16
19. The mode and mean is given by 7 an	d 8. respectively. Then the median is:
A)1/13	B) 13/3
C) 23/3	D) 33.
-,	
20. If Mean of a, a+3, a+6, a+9 and a+12	is 10, then a is equal to;
A) 1	B) 2
C) 3	D) 4
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- 26. In the following question, out of the four alternatives, select the word similar in meaning to the word given. Cynicism
 - A) Conviction
 - C) Credence

B) Bitterness D) Intuition

- 27.In the following question, out of the four alternatives, select the word similar in meaning to the word given. Pinnacle
 - A) Culmination
- B) Nadir D) Basal
- C) Nethermost D) Basa
- 28. In the following question, out of the four alternatives, select the word opposite in meaning to the word given.

Befuddle

A) Baffle

C) Fluster

B) DazeD) Explicate

29. In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best express the same sentence in Indirect/Direct speech.

John said, "There is a monkey outside the window."

- A) John said that there was a monkey outside the window.
- B) John said that there is a monkey outside the window.
- C) John says that there was a monkey outside the window.
- D) John says that there is a monkey outside the window.
- 30. In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best express the same sentence in Indirect/Direct speech.

She said, "I will have cooked the food by the time they arrive".

- A) She said that she will have cooked the food by the time they would arrive.
- B) She said that she would cooked the food by the time they will arrive.
- C) She said that she would have cooked the food by the time they will arrive.
- D) She said that she would have cooked the food by the time they arrived.

In the following question (Q31 – Q32), a sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice.

- 31. You'll be missing the sunshine in home.
 - A) You'll miss the sunshine in home.
 - B) You would be missing the sunshine in home.
 - **C)** You'll are going to be missing the sunshine in home.
 - D) None of the above.



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41. What phenomenon is respons	sible for twinkling of stars?
A) Diffraction	B) Refraction
C) Dispersion	D) Scattering of Light
42. What will be the power consu W Refrigerator for continuous	mption of two 300 W bulbs, three 100 W fans and one 1200 s operation of 30 hours?
A) 54 kWh	B) 60 kWh
C) 63 kWh	D) None of these
43. What type of Image is formed	by the eye lens on the retina?
A) Real and erect	B) Virtual and inverted
C) Real and inverted	D) Virtual and erect
44. The magnetic field is the stroi	ngest at
A) Middle of the magnet	B) North pole.
C) South pole	D) Both poles.
45. The heating element of an ele	ctric iron is made up of:
A) copper	B) nichrome
C) aluminium	D) iron
 46. A zygote which has an X-chro A) girl C) either boy or girl D) X abromacione dece not in 	omosome inherited from the father will develop into B) boy
D) X-chromosome does not in	indence the sex of a child.
47. The ability of a cell to divide in called	nto several cells during reproduction in Plasmodium is
A) budding	B) multiple fission
C) binary fission	D) reduction division
48. Tomato is a natural source of	which acid?
A) Acetic acid	B) Citric acid
C) Tartaric acid	D) Oxalic acid
49. Which of the following has me	ore inertia – a rubber ball and a stone of same size?
A) Rubber Dall C) Both have equal inertia	D) Both have zero
C) Both have equal mertia	D) Both have zero.
50. A bus at rest starts moving winnutes?	ith an acceleration of 0.1 m/s ² . What will be its speed after
A) 15 m/s	B) 18 m/s
C) 9 m/s	D) 12 m/s



51. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures:

Answer Figures:



- 52. Marathon is to race as hibernation is to
 - A) winter B) bear C) Dream D) sleep
- 53. Choose the correct order of letters which are required to form a correct meaningful word VARSTE
 - A) 2,3,1,6,4,5
 - B) 3,2,4,5,6,1
 - c) 4,5,2,3,1,6.
 - D) 6,3,4,5,2,1
- 54. In these series, you will be looking at both the letter pattern and the number pattern. Fill in the blank in the series.

B) VIJ

D) UJI

SCD, TEF, UGH, ____, WKL A) CMN

C) IJT

- 55.Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?
 - A) Brother C) Uncle

- B) Nephew
- D) Son-in-law
- 56. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?

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		:•:

A) 2	B) 3
C) 5	D) 6



57. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).



58. Which of the following diagrams indicates the best relation between Travelers, Train and Bus?



59. In a certain code language,'134' means 'good and tasty'; '478' means 'see good pictures' and

'729' means 'pictures are faint'.

Which of the following digits stands for 'see'?

- A) 1 C) 8 B) 9 D) None of these
- 60. Which one will replace the question mark?



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Section-II Maximum Marks – 50 Time – 30 minutes Instructions: 1. There are total 50 question in this section. 2. All question have four choices out of which only one is correct. 3. There is no negative marking. 1. The value of $\int_0^1 \sqrt{1 + \sin \frac{x}{2}} dx$ is A) 0 **B)**2 **C) 4** D) None of these 2. The area bounded by the parabola $x=4-y^2$ and y-axis, in square units, is A) 332 B) 323 D) None of these C) 332 3. The general solution of the differential equation $\frac{y \, dx - x \, dy}{y} = 0$, is A) xy = CB) $x = Cy^2$ C) y – Cx D) None of these 4. If A, B, C be three sets such that $A \cup B = A \cup C$ and $A \cap B = A \cap C$, then A) B = CB) A = C C) A = B = CD) None of these 5. If $f(x) = e^x$ and $g(x) = \log_e x$ then the value of fog(1) is A) 0 B) 1 C) -1 D) None of these 6. The value of $\cos^2 x + \cos^2 y - 2\cos x \times \cos y \times \cos (x + y)$ is B) $sin^2(x + y)$ A) sin(x + y)C) $\sin^3(x + y)$ D) None of these 7. $\frac{1}{(1.2)} + \frac{1}{(2.3)} + \frac{1}{(3.4)} + \dots + \frac{1}{\{n(n+1)\}}$ B) $\frac{n}{(n+1)}$ A) n(n+1) 2n**C**) $\frac{1}{(n+1)}$ D) None of these. 8. If Z lies on |z| = 1, then $\frac{2}{z}$ lies on. A)A Circle B) An ellipse. C) A straight line D) None of these. **ARMY, NAVY, AIRFORCE, POLICE**



9. Four dice are rolled. The number of	possible outcomes in which at least one dice show
2 IS. A) 1296	B) 671
C) 625	D) None of these.
10 If the third term in the binomial expa	ansion of $(1+x)^m$ is $(-1/8)x^2$ then the rational value of
m is.	
A)02	B) ½
C) 3	D) None of these.
11.Let Tr be the rth term of an A.P., for have	r=1,2,3, If for some positive integers m, n, we
Tm = 1/n and Tn =1/m, then Tm n eq	juals.
A)1/m n	B) 1/m+1/n
C) 1	D) None of these.
12. The equation of straight line passing 3x + 1 is	g through the point (1, 2) and parallel to the line y =
A) $y + 2 = x + 1$	B) $y + 2 = 3 \times (x + 1)$
\dot{C}) y - 2 = 3 × (x - 1)	D) None of these
13. The parametric coordinate of any po	pint of the parabola $v^2 = 4ax$ is
A) (-at ² , -2at)	B) $(-at^2, 2at)$
C) (a sin²t, -2a sin t)	D) None of these
14. The coordinate of foot of perpendicupoint B (4, 7, 1) and C(3, 5, 3) are	ular drawn from the point A(1, 0, 3) to the join of the
A) (5/3, 7/3, 17/3)	B) (5, 7, 17)
C) (5/3, -7/3, 17/3)	D) None of these
15.Limy→∞ {(x + 6)/(x + 1)}(x+4) equals	i de la construcción de la constru
A) e_	B) e ³
C) e ⁵	D) None of these
16. Which of the following is not a nega than zero	tion of the statement A natural number is greater
 A) A natural number is not greater the 	han zero
B) It is false that a natural number is	s greater than zero
C) It is false that a natural number is	s not greater than zero
D) None of these	
17. The median and SD of a distributed by 2, the new median and SD are	are 20 and 4 respectively. If each item is increased
A) 20, 4	B) 22, 6
C) 22, 4	D) None of these
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 18. If A and B are two events such that A) B ⊂ A C) A ⊂ B 	P(a) ≠ 0 and P(B/A) = 1, then B) B = φ D) None of these
19. The maximum value of the object fu ≤ 120,	nction $Z = 5x + 10$ y subject to the constraints $x + 2y$
$x + y \ge 60, x - 2y \ge 0, x \ge 0, y \ge 0$ is	
A) 300	B) 600
C) 400	D) None of these
20. Let A be a non-singular matrix of th	e order 2 × 2 then A ⁻¹ =
A) A	B) 1/ A
C) 0	D) None of these
21. The area of a triangle with vertices (will be	-3, 0) (3, 0) and (0, k) is 9 sq. units. The value of k
A) 9	B) 3
C) -9	D) None of these
22. The function f(x) = cot x is discontir	nuous on the set
A) {x = nπ, n ∈ Z}	B) {x = 2nπ, n ∈ Z}
C) {x = (2n + 1) π2 n ∈ Z}	D) None of these
23. The area of the region bounded by t	he curve y = 16–x2––––– $$ and x-axis is
A) 8π sq.units	B) 20π sq. units
C) 16π sq. units	D) None of these
24. If the curve ay + $x^2 = 7$ and $x^3 = y$, cu	t orthogonally at (1, 1) then the value of a is
A) 1	B) 0
C) 6	D) None of these
25. Solution of differential equation xdy	v – ydx = Q represents
B) parabola whose vertex is at origi	n
C) straight line passing through original	gin
D) None of these	-
26. Wave picture of light failed to explain	in.
A) The photoelectric effect	B) polarization of light
C) Diffraction of light	D) None of these
27. A force F is given by F = at + bt ² , wh	ere t is time. What are the dimensions of a and b?
A) MLT-1 and MLT0	B) MLT ⁻³ and MLT ⁻⁴
C) MLT-4 and MLT1	D) None of these
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