

STD :IX

TOTAL MARKS:100

SUBJECT: MATHS

DURATION: 2:30 HRS

I).CHOOSE THE CORRECT ANSWER

14 X 1=14

1. If $B \subseteq A$ then $n(A \cap B)$ is _____a) $(A-B)$ b) $n(B)$ c) $n(B-a)$ d) $n(A)$ 2. If $B-A$ is B , then $A \cap B$ is –a) A b) B c) U d) ϕ 3. If $A \cup B = A \cap B$, then _____a) $A \neq B$ b) $A = B$ c) $A \subset B$ d) $B \subset A$

4. In a class of 50 boys, 35 boys play carrom and 20 boys play chess, then the number of boys play both games is _____

a)5 b)30 c)15 d)10

5. $0.\overline{34} + 0.\overline{34} =$ a) $0.6\overline{87}$ b) $0.\overline{68}$ c) $0.68\overline{7}$ d) $0.68\overline{7}$

6. Which one of the following regarding sum of two irrational numbers, is true?

a)always an irrational number. B)may be a rational or irrational number
c)always a rational number d)always an integer

7. which of the following is not true?

a)every rational number is a real number b)every integer is a rational number
c)every real number is an irrational number d)every natural number is a whole number8. The smallest rational number by which $\frac{1}{3}$ should be multiplied so that its decimal

Expansion terminates with one place of decimal is

a) $\frac{1}{10}$ b) $\frac{3}{10}$ c)3 d)309. The type of the polynomial $4-3x^2$ is

a)constant polynomial b)linear polynomial c)quadratic polynomial d)cubic polynomial

10. The zero of the polynomial $2x+5$ is

- a) $\frac{5}{2}$ b) $-\frac{5}{2}$ c) $2/5$ d) $-2/5$

11. Cubic polynomial may have maximum of ____ linear factor

- a)1 b)2 c)3 d)4

12. Degree of the constant polynomial is ____

- a)3 b)2 c)1 d)0

13. A number between 0 and 1 that is used to measure uncertainty is called ____

- a) random variable b) trial c) simple event d) probability

14) The six faces of the dice are called equally likely if the dice is

- a) small b) fair c) six faced d) round

II ANSWER ANY TEN OF THE FOLLOWING QUESTION 10 X 2 = 20

15. Write the set of letters of the following words in the roster form ASSESSMENT

16. Represent the set in set builder form D = The set of all tamil months in a year

17. Find the cardinal number of following set $R = \{x : x \text{ is an integer, } x \in \mathbb{Z}, -5 \leq x < 5\}$

18. Express the following rational numbers into decimal and state the kind of decimal

Expansion $\frac{327}{200}$

19. write the following in the form of 5^n : $\sqrt{125}$

20. write the coefficient of x and x in each of the following polynomials: $6-2x^2+3x^3-7\sqrt{x}$

21. Find the roots of the polynomial equations: $9x-4=0$

22. Find the GCD of $25ab^3c$, $100a^2bc$, $125ab$

23. when two coins are tossed, what is the probability that two heads are obtained?

24. A company manufactures 10000 laptops in 6 months. out of which 25 of them are found

To be defective. when you choose one laptop from the manufactured, what is the probability

That selected laptop is a good one.

25. Factorise $z^2 + 4z - 12$

26. Expand the following using identities $(3x+4y)^2$

III)ANSWER ANY 5 OF THE FOLLOWING QUESTIONS

5 X 3 = 15

27.If $n[P(A)]=256$, find $n(A)$ 28.Find any three rational numbers between $-\frac{7}{11}$ and $\frac{2}{11}$ 29.Find the 5th root of $\frac{1024}{3125}$

30.Add the following polynomials and find the degree of the resultant polynomial

$$P(x)=6x^2-7x+2, \quad q(x)=6x^3-7x+15$$

31.Factorise $8x^3 + 125y^3$.

32.What is the probability of throwing an even number with a single standard dice of six Faces?

33.What is the remainder when $x^{2018} + 2018$ is divided by $x-1$.

IV)ANSWER ANY 7 OF THE FOLLOWING QUESTION

7 X 5 = 35

34.Express the following decimal expression into rational numbers $\overline{0.24}$ 35.Represent $\sqrt{9.3}$ on a number line36.Represent the following numbers on the number line $6.\overline{4}$ upto 3 decimal places37.If two polynomials $2x^3 + ax^2 + 4x-12$ and $x^3 + x^2 - 2x + a$ leave the same38.If $(x+y+z)=9$ and $(xy+yz+zx)= 26$, then find the value of $x^2 + y^2 + z^2$.39.The area of a rectangle is $x^2 + 7x + 12$. If its breadth is $(x+3)$, then find its length.

40.Two dice are rolled, find the probability that the sum is i) equal to 1 ii) equal to 4

iii) less than 13

41.The probability of guessing the correct answer to a certain question is $\frac{x}{3}$. If the probability ofNot guessing the correct answer is $\frac{x}{5}$, then find the value of x .

42.If a probability of a player winning a particular tennis match is 0.72. what is the probability

Of a player loosing the match?

V)ANSWER ANY 2 OF THE FOLLOWING QUESTION

8 X 2 = 16

43.Construct the centroid of ΔPQR Whose sides are $PQ = 8$ cm, $QR = 6$ cm, $RP = 7$ cm.

44.Draw an equilateral triangle of sides 6.5 cm and locate its orthocenter.

45.construct ΔABC in which $AB=BC=6$ cm & $\angle B=80^\circ$. locate its incentre and incircle.

Padasalai



www.Padasalai.Net

படங்களை தொடுக! பாடசாலை வலைதளத்தை சமூக ஊடகங்களில் பின்தொடர்க!! உடனுக்குடன் புதிய செய்திகளை Notifications-ல் பெறுக!



Zoom



Touch Below Links



Download!

12th Standard	Syllabus	Books	Study Materials – EM	Study Materials - TM	Practical	Online Test (EM & TM)
	Monthly Q&A	Mid Term Q&A	Revision Q&A	PTA Book Q&A	Centum Questions	Creative Questions
	Quarterly Exam	Half Yearly Exam	Public Exam	NEET		

11th Standard	Syllabus	Books	Study Materials – EM	Study Materials - TM	Practical	Online Test (EM & TM)
	Monthly Q&A	Mid Term Q&A	Revision Q&A	Centum Questions	Creative Questions	
	Quarterly Exam	Half Yearly Exam	Public Exam	NEET		

10th Standard	Syllabus	Books	Study Materials - EM	Study Materials - TM	Practical	Online Test (EM & TM)
	Monthly Q&A	Mid Term Q&A	Revision Q&A	PTA Book Q&A	Centum Questions	Creative Questions
	Quarterly Exam	Half Yearly Exam	Public Exam	NTSE	SLAS	

9th Standard	Syllabus	Books	Study Materials	1st Mid Term	2nd Mid Term	3rd Mid Term
	Quarterly Exam	Half Yearly Exam	Annual Exam	RTE		

8th Standard	Syllabus	Books	Study Materials	1st Mid Term	2nd Mid Term	3rd Mid Term
	Term 1	Term 2	Term 3	Public Model Q&A	NMMS	Periodical Test

7th Standard	Syllabus	Books	Study Materials	1st Mid Term	2nd Mid Term	3rd Mid Term
	Term 1	Term 2	Term 3	Periodical Test	SLAS	

6th Standard	Syllabus	Books	Study Materials	1st Mid Term	2nd Mid Term	3rd Mid Term
	Term 1	Term 2	Term 3	Periodical Test	SLAS	

1st to 5th Standard	Syllabus	Books	Study Materials	Periodical Test	SLAS	
	Term 1	Term 2	Term 3	Public Model Q&A		

Exams	TET	TNPSC	PGTRB	Polytechnic	Police	Computer Instructor
	DEO	BEO	LAB Asst	NMMS	RTE	NTSE

Portal	Matrimony	Mutual Transfer	Job Portal
---------------	---------------------------	---------------------------------	----------------------------

Volunteers	Centum Team	Creative Team	Key Answer Team
-------------------	-----------------------------	-------------------------------	---------------------------------

Downloads	LESSON PLAN	Department Exam	Income Tax	Forms & Proposals	Fonts	Downloads
	Proceedings	GO's	Regulation Orders	Pay Orders	Panel	



Padasalai – Official Android App – [Download Here](#)



Kindly Send Your Study Materials, Q&A to our Email ID – Padasalai.net@gmail.com