	7	www.Pada	THasala	IRD MID-	TERM '	TEST _{www.} 2	Q24 _{npsc.cog}	'n	
ci		agang		3 135	andard	All the second of the control of the	Reg.No.:		
		ugung	UI.	MAT	HEMA	TICS			
	Tin	ne: 2.00 hrs.			Part - I		orand ut 1	Ma	rks: 50
YouTube	I.	Choose the corre	ct a	nswer:				8	3 x 1 = 8
3	1.	The semi-perimeter	r of	a triangle ha	aving sid	es 15 cm, 2	20 cm and 2	5 cm is	
		a) 60 cm	b)	45 cm	c)	30 cm	d)	`15 cm	
5	2.	The lateral surface	are	a of a cube	of side 1	2 cm is	en netrojinih i	Senata	
>	١,	a) 144 cm ²	b)	196 cm ²	c)	576 cm ²	d)	664 cm ²	
2	3.	If the ratio of the si	des	of two cubes	s are 2:3,	then ratio	of their surfa	ice areas	will be
		a) 4:6	b)	4:9	c)	6:9	d)	16:36	I N
	4.	The volume of a cu	boid	d is 660 cm ³	and the	area of the	base is 33 c	m². Its he	eight is
S		a) 10 cm	b)	12 cm	c)	20 cm	d)	22 cm	1
2	5.	Which one is not tr	ue?						
<u>U</u>	4.	a) $1 \text{ cm}^3 = 1 \text{ m}l$	b)	$1000 \text{ cm}^3 =$	= 10 <i>l</i> c)	1000 cm ³	= 17 d)	$1 \text{ m}^3 = 10$	000 /
eache	6.	Let 'm' be the mid p	oint	and 'b' be th	ne upper	limit of clas	ș in a contin	uous freq	uency
vskt		distribution. The lo	wer	limit of the c	lass is	Maria W			
S		a) 2m – b	b)	2m + b	c)	m-b	d)	m – 2b	3
?	7.	The algebraic sum	of th	ne deviations	s of a set	of 'n' value	s from their	mean is	3 . 2
3)		a) 0	b)	n – 1	c)	n	d)	n + 1	
1	8.	The mean of a set of	of nu	ımbers is $\overline{\chi}$, If each r	number is n	nultiplied by	Z, then m	ean is
ري دي	ΝĎ	a) $\overline{X} + Z$	b)	$\overline{X} - z$	c)	zX	d)	$\overline{\mathbf{x}}$	0
Ë	II.	Answer any six of	the	following.	ra in		Are on the Sign	6 x	2=12
F	9.	Write Heron's form	ula.	Also if a = b	c, then	find the are	ea of the tria	ngle by H	eron's
2	37	formula.	le.					12.80	
ပ္	10.	Find the TSA of a c	ubo	id where len	gth, brea	dth and he	ight are 7.5	m, 3 m an	id 5 m
ear		respectively.							. 3
30	11.	If the total surface a	area	of a cube is	2400 cm	² then, find	its lateral s	urface are	a.
	12.	A cubical tank can l	nold	64,000 litres	s of water	. Find the l	ength of its s	side in me	tres.
6	13.	The volume of a co	ntaiı	ner is 1440 r	m ³ . The le	ength and t	he breadth o	of the con	tainer
3		are 15 cm and 8 cm	n re	spectively. F	ind its he	ight.			
S	14.	A cricketer played 8	3 ma	tches and s	cored the	following	scores.		
₹'		25, 32, 36, 38, 45, 4	11, 3	5, 36. Find t	he mean				\$1E5
•	15.	The arithmetic mea	n of	6 values is	45 and if	each value	is increased	by 4, the	n find
0		the arithmetic mean			til Direction Gall			News H	
L	16.	The following are so	core	s obtained b	y 11 play	ers in a cri	cket match.		
		7, 21, 45, 12, 56, 35			1 4 -				100
	17.	The median of obs	erva	ation 11, 12,	14, 18,	x+2, x+4,	30, 32, 35, 4	11 arrang	ed in

kindly send me your key Answers to our email id - padasalai.net@gmail.com

ascending order is 24. Find the value of x.

III. Answer any six of the following.

6x5 = 30

- 18. A land is in the shape of rhombus. The perimeter of the land is 16 cm and one of the diagonal is 48 m. Find the area of the land.
- 19. The length, breadth and height of a hall are 25 m, 15 m and 5 m respectively. Find the cost of renovating its floor and four walls at the rate of ₹80 per m².
 - 20. The length, breadth and height of a cuboid are in the ratio 7:5:2. Its volume is 35840 cm³. Find its dimensions.
 - 21. The side of a metallic cube is 12 cm. It is melted and formed into a cuboid whose length and breadth are 18 cm and 16 cm respectively. Find the height of the cuboid.
- 22. The dimensions of a brick are 20 cm x 12 cm x 8 cm. How many such bricks will be required to build a wall of 16 m length, 48 cm breadth and 8 m height?
 - 23. The following data gives the number of residents in an area based on their age. Find the average age of the residents.

Age	0-10	10-20	20-30	30-40	40-50	50-60
No. of residents	2	6	9	7 6	4	2

24. If the mean of the following data is 20.2, then find the value of 'p'.

Marks	10	15	20	25	30	
No. of students	6	- 8	р	10	6	

25. Calculate the median for the following data:

Height (cm)	160	150	152	161	156	154	155
No. of students	12	8	4	4.	. 3	3	7

26. The following are the marks scored by the students in the summative assessment exam.

Class interval	0-10	10-20	20-30	30-40	40-50	50-60
No.of students	2	7	15	10	ູ 11	5
