



Studymate Foundation Paper

Date : 23/12/2018		Science & Mathematics			CLASS				
Dui Ma:	ration : 90 Min. x. Marks : 90	(Set-2)				VIII			
Gen 1. 2. 3. 4. 5.	neral Instructions: All questions are co Each question is allo No deduction from There is only ONE treated as wrong res Use of calculators is	ompulsory. otted ONE mark fo the total score will correct response f sponse and marks fo s not allowed.	or each correct be made if no for each quest or wrong respo	response. response is indic ion. Filling up M onse will be dedu	ated for the questic ORE THAN ON cted accordingly.	on in the answer NE response in o	sheet. each question will be		
			Secti	ion A – Sc	ience				
1.	A brick is kep	t in three diffe	erent ways	s on a table a	as shown in fi	igure. The p	ressure exerted by		
		ne table will b	B		С				
				_					
	(a) maximum	in position A		(b)	maximum i	n position F	3		
	(c) maximum	$\frac{1}{1}$ in position ((C) (b)	equal in all	cases			
2.	Whenever the surfaces in contact tend to move or move with respect to each other, the force								
	of friction comes into play								
	(a) only if the objects are solid.								
	(b) only if one of the two objects is liquid.								
	(c) only if one	(c) only if one of the two objects is gaseous.							
_	(d) irrespectiv	ve of whether	the object	s are solid, l	iquid or gase	ous.			
3.	An object is vi	ibrating at 50	hertz. Wh	at is its time	period?	<i>(</i> 1)			
_	(a) 0.02 s	(b)	2 s	(c)	0.2 s	(d)	20.0 s		
4.	1 hertz is equ	al to		<i>4</i>)					
	(a) 1 vibratio	n per minute		(b)	10 vibration	ns per minu	ite		
_	(c) 60 vibrati	ons per minu	te	(d)	600 vibratio	ons per min	ute		
5.	Which of the f	ollowing solu	tions will r	lot make the	bulb in figur	e glow?			
	(a) sodium ch	llorides					୲⊢─────		
	(b) copper su	sulphate							
	(c) silver niti	c) silver nitrate							
	aj sugar solu	luon in dilute	a water						
6.	The earth's pl	late responsib	le for caus	sing earthqu	akes is				
	(a) the crust	of the earth		(b)	the mantle	of the earth	Solution		
	(c) the inner	core of the ea	arth	(d)	the outer c	ore of the ea	arth		





15.	Which of the following procedures will give you water free from all impurities?					
	(a) adding chlorine tablets	(b)	distillation			
	(c) boiling	(d)	filtration			
16.	Which is a thermosetting plastic?					
	(a) Melamine (b) Polythene	(c)	PVC	(d)	Nylon	
17.	Which of the following is not a common prope	rty of	plastics?			
	(a) Non-reactive	(b)	Light in weight			
	(c) Durable	(d)	Good conductor of	ofeleo	ctricity	
18.	Which of the following groups contain all synt	thetic	substances?			
	(a) Nylon, Terylene, Wool	(b)	Cotton, Polycot, Rayon			
	(c) PVC, Polythene, Bakelite	(d)	Acrylic, Silk, Woo	b 1		
1 9 .	Metals generally react with dilute acids to pro-	oduce	e hydrogen gas. W	hich	one of the following	
	metals does not react with dilute hydrochlorid	c acid	!?			
	(a) magnesium (b) aluminium	(c)	iron	(d)	copper	
20.	The metal which produces hydrogen gas on r	reacti	on with dilute hyd	lroch	loric acid as well as	
	sodium hydroxide solution is					
	(a) copper (b) iron	(c)	aluminium	(d)	sodium	
21.	Generally metallic oxides are basic and non-	metal	llic oxides are acid	lic in	nature. Solution of	
	(a) sulphur dioxide (b) magnesium oxid		iron ovide	iuiiu (d)	conner ovide	
22	(a) surprise downed (b) magnesium oxid	ving	II OII OXIUE	(u)	copper oxide	
44.	(a) It is difficult to transport natural gas through	ugh r	vines			
	(a) The disadvantage of natural gas is that it	can i	npcs.	lv for	hurning in homes	
	(c) Natural gas is stored under high pressure as compressed natural gas.					
	(d) Natural gas cannot be used for power gen	e uo e	on pressed nature	a gao	•	
22	(d) Natural gas calliot be used for power gen		oollod			
23.	(a) kiloioulo per litro	(b)	lzilogrom por mil	ilitro		
	(a) kilojoule per grom	(U) (d)	kilogram per lim	arom		
24	(c) Knojoure per gram Shyam was cooking potato curry on a <i>chulh</i>	u) a To	his surprise he o	bser	u wed that the conner	
47.	vessel was getting blackened from outside. It	may	be due to	DSCI	ved that the copper	
	(a) proper combustion of fuel.	(b)	improper cooking	g of po	otato curry.	
	(c) improper combustion of the fuel.	(d)	burning of copper	rvess	sel.	
25.	Polyester is repeating units of					
	(a) Ether (b) Beads	(c)	Carbon	(d)	Ester	
26.	Which one of the following is metal?					
	(a) C (b) N	(c)	Na	(d)	0	
27.	Which non-metal catches fire if the exposed	to air	?			
	(a) Sodium (b) Phosphorous	(c)	Calcium	(d)	Uranium	
28.	Name the scientist who showed that lightning	g and	the spark from you	ur clo	othes are essentially	
	the same phenomena					
	(a) Thomas Alva Edison	(b)	Benjamin Frank	lin		
	(c) Franklin D. Roosevelt	(d)	Isaac Newton	1		
29.	Ine pitch of sound depends on the	(or the vibrating bo	dy.		
	(a) amplitude	(D)	noise	ant:	-	
	(c) irequency	(a)	measum of propa	gatio	11	

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30.	What is the cause of ch	ange in motion or cha	nge	in the state of mot	ion?		
	(a) Pressure	(b)	(b) Atmospheric Pressure				
	(c) Friction		(d)	Force			
31.	Which of the following	elements is not found	in cł	nemical fertilizers			
	(a) Potassium	(b) Iron	(c)	Nitrogen	(d)	Phosphorus	
32.	Which of the following	will not be helpful in re	etain	ing the nutrients o	of agr	ricultural field	
	(a) Irrigation	(b) Manuring	(c)	Crop rotation	(d)	Field fallowing	
33.	UHT is a food preservat	ion method for					
	(a) Fruits	(b) Milk	(c)	Fish	(d)	All of these	
34.	The shape of milk curd	ling bacteria is :					
	(a) rod -like	(b) spiral	(c)	curved	(d)	spherical	
35.	Pathogenic microorgan	isms present inside a l	host	are killed by medi	cines	s called	
	(a) Antibodies	(b) Antibiotics	(c)	Vaccines	(d)	Pain killers	
36.	Which one of these is r	not a wildlife reserve in	Ind	ia for the conserva	tion	of tigers?	
	(a) Corbett	(b) Bandhavgarh	(c)	Ranthambhore	(d)	Periyar	
37.	Choose the incorrect p	airs	_				
	(i) Species - naturally	interbreeding dissimi	lar o	rganisms			
	(ii) Endemic fauna - ar	nimals found exclusive	ly in	an area			
	(111) Sanctuary - anima	Is are protected in hun	nan (
	(iv) Ecosystem - intera	cting organisms in the	ar pr	iysical environme	nt (1)	····> 1 ··· >	
20	(a) (i) and (iv) $O_{1}^{1} = O_{1}^{1} =$	(D) (11) and (111)	(C)	(1) and (111)	(a)	(111) and (1V)	
38.	cell division and control	ll carefully and identify	y the vitie	e organelles which s respectively	peri	orm ATP synthesis,	
			Ŵ				
		X	Х	E			
		G K		_			
		(h) G D F	(c)	AGB	(d)	BCF	
39	Elongated and contract	ile cells are found in	(C)	И, С, Б	(u)	D, C, D	
02.	(a) Brain	(b) Spinal cord	(c)	Heart	(d)	Liver	
40.	Which of the following i	is not related to the ter	"m "t	prokarvote"	(04)	211 01	
	(a) Nucleoid	(b) Bacteria	(c)	Ribosomes	(d)	Mitochondria	
41.	Considering the menst	rual cycle in a female	of 28	days , if her men	strua	ation starts on 25th	
	November, which could	l be the probable date	on w	which the egg will ϵ	enter	inside the fallopian	
	tube:						
	(a) 9th December	(b) 15th December	(c)	25th December	(d)	26th November	
42.	Which of the following	process cannot occur in	n a fe	emale with blocked	l fallo	pian tube	
	(a) in- vitro fertilizatio	n	(b)	in- vivo fertilizati	ion		
	(c) ovulation	. <u>.</u>	(d)	implantation of g	rowir	ng embryo	
43.	Which of the following	is incorrect for reprodu	lction	n in humans		•	
	(a) Formation of game	tes occurs separately	(b)	embryo formation		urs in uterus	
	(c) Fertilization occurs	s in fallopian tube	(d)	placenta forms a	iter i	mplantation	

44. Identify the endocrine gland in the given below diagram , that secretes its hormone few hours after taking meal and is not regulated by the "master gland".



- **52.** Subtraction of a number is the same as addition of its additive inverse
 - (a) true (b) false
 - (c) can't say (d) can't be determined

00.	At unit's place, th	e square number can	have			
	(a) 0, 9, 6	(b) 4, 5, 1	(c)	2,3	(d)	both (a) and (b)
54.	How many integra	l square roots does a j	perfect squ	are number has?		
	(a) 2	(b) 1	(c)	0	(d)	infinite
55.	While multiplying	a polynomial by a mo	nomial, we	multiply every te	rm in	the polynomial by
	(a) Binominl	(b) Polynomial	(c)	Constant term	(d)	monomial
56.	A parallelogram of	base 28 cm and heigh	nt 14 cm ha	s area equal to a t	riangl	e whose base is 112
	cm. The height of	the triangle is				
	(a) 15 cm	(b) 22 cm	(c)	25 cm	(d)	7 cm
		_ −a .				
57.	The additive inver	se of $\frac{1}{b}$ is				
	$(a) \frac{a}{a}$	(b) $\frac{-b}{-b}$		\underline{b}	(4)	$\underline{-a}$
	(a) b	^(D) a	(C)	а	(u)	b
58.	Raman and Satish	were two candidates	in an elect	ion. Satish got 62	% vot	es and is elected by
	a margin of 144 vo	otes. What was the tota	al number	of votes casted?		
	(a) 500	(b) 700	(C)	600	(d)	800
59.	The given quadril	ateral ABCD is a				
		A				
		\backslash				
			\sim			
		ط /	/ /	∕ D		
		/				
		C				
	(a) concave quad	rilateral	ന്രി	convex quadrilat	eral	
	(a) concave quad	rilateral	(b) (d)	convex quadrilat	eral	
60	(a) concave quad(c) trapeziumA cube is having a	rilateral	(b) (d)	convex quadrilat parallelogram	eral	
60.	 (a) concave quad (c) trapezium A cube is having a (a) 75 m³ 	rilateral a surface area of 150 r. (b) 125 m ³	(b) (d) n². What w	convex quadrilat parallelogram ill be its volume? 27 m ³	eral	25 m ³
60.	 (a) concave quad (c) trapezium A cube is having a (a) 75 m³ Which of the follow 	rilateral a surface area of 150 r (b) 125 m ³	(b) (d) n ² . What w (c)	convex quadrilat parallelogram ill be its volume? 27 m ³	teral (d)	25 m ³
60. 61.	 (a) concave quad (c) trapezium A cube is having a (a) 75 m³ Which of the follow (a) (2x+5) (x+1) 	rilateral a surface area of 150 r (b) 125 m ³ wing pairs are factors of (b) (x + 5) (x - 2)	(b) (d) n^2 . What w (c) of $10x^2 - 3x$ 3)	convex quadrilat parallelogram ill be its volume? 27 m ³ c-1	ceral (d)	25 m^3
60. 61.	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Ps 815 an	rilateral a surface area of 150 r (b) 125 m^3 wing pairs are factors o) (b) $(x+5), (x-3)$ d gain = 25% then Cl	(b) (d) m ² . What w (c) of $10x^2 - 3x$ 3) (c) P =	convex quadrilat parallelogram ill be its volume? 27 m^3 x-1 (10x + 1), (x - 5)	(d) (d)	25 m ³ $(5x + 1), (2x - 1)$
60. 61. 62.	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 an (a) Rs 521	rilateral a surface area of 150 r (b) 125 m^3 wing pairs are factors o (b) $(x + 5), (x - 3)$ d gain = 25%, then CI	(b) (d) m ² . What we (c) of $10x^2 - 3x^2$ 3) (c) P =(0)	convex quadrilat parallelogram ill be its volume? 27 m^3 x-1 (10x + 1), (x - 5)	(d) (d)	25 m^3 (5x + 1), (2x - 1)
60.61.62.63	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 and (a) Rs. 521 A number increase	rilateral a surface area of 150 r (b) 125 m^3 wing pairs are factors o) (b) $(x+5), (x-3)$ d gain = 25%, then CI (b) Rs. 621	(b) (d) m ² . What we (c) of $10x^2 - 3x^2$ 3) (c) P = (c) The numb	convex quadrilat parallelogram ill be its volume? 27 m^3 x-1 (10x + 1), (x - 5) Rs. 652	(d) (d) (d)	25 m ³ (5 <i>x</i> + 1), (2 <i>x</i> – 1) none of these
60. 61. 62. 63.	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 an (a) Rs. 521 A number increas	rilateral a surface area of 150 r (b) 125 m^3 wing pairs are factors o (b) $(x + 5), (x - 3)$ d gain = 25%, then CI (b) Rs. 621 ed by 12% gives 95.2.	(b) (d) n^2 . What we (c) of $10x^2 - 3x$ (c) P =	convex quadrilat parallelogram ill be its volume? 27 m^3 x-1 (10x + 1), (x - 5) Rs. 652 per is	(d) (d) (d) (d)	25 m ³ (5 <i>x</i> + 1), (2 <i>x</i> – 1) none of these
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60.61.62.63.	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 and (a) Rs. 521 A number increas (a) 85 (c) none of these If A course 50%	rilateral a surface area of 150 r (b) 125 m^3 wing pairs are factors o) (b) $(x + 5), (x - 3)$ d gain = 25%, then CI (b) Rs. 621 ed by 12% gives 95.2. (b) 90	(b) (d) n^{2} . What we (c) of $10x^{2} - 3x$ (c) P =	convex quadrilat parallelogram ill be its volume? 27 m^3 x-1 (10x + 1), (x - 5) Rs. 652 per is 100	(d) (d) (d) (d)	25 m ³ (5 <i>x</i> + 1), (2 <i>x</i> – 1) none of these 112
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60.61.62.63.64.	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 and (a) Rs. 521 A number increas (a) 85 (c) none of these If A earns 50% me (a) 50%	rilateral a surface area of 150 m (b) 125 m^3 wing pairs are factors o) (b) $(x + 5), (x - 3)$ d gain = 25%, then CH (b) Rs. 621 ed by 12% gives 95.2. (b) 90 ore than B, then B ear (b) 25%	(b) (d) (d) n^2 . What we (c) of $10x^2 - 3x$ (c) P =	convex quadrilat parallelogram ill be its volume? 27 m ³ x-1 (10x + 1), (x - 5) Rs. 652 per is 100 % less than A 10%	(d) (d) (d) (d) (d)	25 m ³ (5x + 1), (2x - 1) none of these 112 $33\frac{1}{2}\%$
 60. 61. 62. 63. 64. 	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 and (a) Rs. 521 A number increase (a) 85 (c) none of these If A earns 50% models (a) 50%	rilateral a surface area of 150 r (b) 125 m^3 wing pairs are factors of (b) $(x + 5), (x - 3)$ d gain = 25%, then CI (b) Rs. 621 ed by 12% gives 95.2. (b) 90 pre than B, then B ear (b) 25%	(b) (d) (d) n^2 . What we (c) of $10x^2 - 3x^2$ (c) P = (c) The numb (c) (c) (c) (c)	convex quadrilat parallelogram ill be its volume? 27 m^3 x-1 (10x + 1), (x - 5) Rs. 652 per is 100 % less than A 10%	(d) (d) (d) (d) (d)	25 m ³ (5x + 1), (2x - 1) none of these 112 $33\frac{1}{3}\%$
 60. 61. 62. 63. 64. 65. 	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 and (a) Rs. 521 A number increas (a) 85 (e) none of these If A earns 50% models (a) 50% If 4 people can con- day is	rilateral a surface area of 150 r (b) 125 m^3 wing pairs are factors of (b) $(x + 5), (x - 3)$ d gain = 25%, then CI (b) Rs. 621 ed by 12% gives 95.2. (b) 90 ore than B, then B ear (b) 25% nplete a work in 3 days	(b) (d) (d) n^2 . What we (c) of $10x^2 - 3x^2$ (c) P =	convex quadrilat parallelogram ill be its volume? 27 m ³ x-1 (10x + 1), (x - 5) Rs. 652 per is 100 % less than A 10% per of people require	(d) (d) (d) (d) (d) (d) ired to	25 m^{3} $(5x + 1), (2x - 1)$ none of these 112 $33\frac{1}{3}\%$ be complete work in 1
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 60. 61. 62. 63. 64. 65. 66. 	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 and (a) Rs. 521 A number increas (a) 85 (e) none of these If A earns 50% mod (a) 50% If 4 people can conday is (a) 6 Which of the follow	rilateral a surface area of 150 m (b) 125 m ³ wing pairs are factors of (b) $(x + 5), (x - 3)$ d gain = 25%, then CH (b) Rs. 621 ed by 12% gives 95.2. (b) 90 ore than B, then B ear (b) 25% nplete a work in 3 days (b) 8 wing is NOT a perfect of	(b) (d) (d) n^2 . What we (c) of $10x^2 - 3x^2$ (c) P =	convex quadrilat parallelogram ill be its volume? 27 m^3 x-1 (10x + 1), (x - 5) Rs. 652 per is 100 20% less than A 10% per of people requise 12	(d) (d) (d) (d) (d) (d) ired to (d)	25 m ³ (5x + 1), (2x - 1) none of these 112 $33\frac{1}{3}\%$ complete work in 1 18
 60. 61. 62. 63. 64. 65. 66. 	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 and (a) Rs. 521 A number increase (a) 85 (e) none of these If A earns 50% matrix (a) 50% If 4 people can con- day is (a) 6 Which of the follow (a) 729	rilateral a surface area of 150 r (b) 125 m^3 wing pairs are factors of (b) $(x + 5), (x - 3)$ d gain = 25%, then CI (b) Rs. 621 ed by 12% gives 95.2. (b) 90 ore than B, then B ear (b) 25% nplete a work in 3 days (b) 8 wing is NOT a perfect of (b) 1728	(b) (d) (d) n^2 . What w (c) of $10x^2 - 3x^2$ (c) r =(c) The numb (c) rns(c) s, the numb (c) cube? (c)	convex quadrilat parallelogram ill be its volume? 27 m^3 x-1 (10x + 1), (x - 5) Rs. 652 per is 100 200 % less than A 10% per of people requise 12 1000	(d) (d) (d) (d) (d) (d) ired to (d) (d)	25 m ³ (5x + 1), (2x - 1) none of these 112 $33\frac{1}{3}\%$ complete work in 1 18 225
 60. 61. 62. 63. 64. 65. 66. 67. 	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 and (a) Rs. 521 A number increas (a) 85 (c) none of these If A earns 50% mod (a) 50% If 4 people can condary is (a) 6 Which of the follow (a) 729 How many terms of	rilateral a surface area of 150 r (b) 125 m^3 wing pairs are factors of (b) $(x + 5), (x - 3)$ d gain = 25%, then CI (b) Rs. 621 ed by 12% gives 95.2. (b) 90 ore than B, then B ear (b) 25% nplete a work in 3 days (b) 8 wing is NOT a perfect of (b) 1728 does a monomial expression	(b) (d) (d) n^2 . What we (c) of $10x^2 - 3x$ (c) P =	convex quadrilat parallelogram ill be its volume? 27 m^3 x-1 (10x + 1), (x - 5) Rs. 652 per is 100 	(d) (d) (d) (d) (d) (d) (d) (d)	25 m ³ (5x + 1), (2x - 1) none of these 112 $33\frac{1}{3}\%$ complete work in 1 18 225
 60. 61. 62. 63. 64. 65. 65. 66. 67. 	(a) concave quad (c) trapezium A cube is having a (a) 75 m^3 Which of the follow (a) $(2x+5), (x+1)$ If SP = Rs. 815 and (a) Rs. 521 A number increase (a) 85 (e) none of these If A earns 50% matrix (a) 50% If 4 people can cond day is (a) 6 Which of the follow (a) 729 How many terms of (a) 1	rilateral a surface area of 150 r (b) 125 m^3 wing pairs are factors of (b) $(x + 5), (x - 3)$ d gain = 25%, then CH (b) Rs. 621 ed by 12% gives 95.2. (b) 90 ore than B, then B ear (b) 25% nplete a work in 3 days (b) 8 wing is NOT a perfect of (b) 1728 does a monomial expro- (b) 3	(b) (d) (d) n^2 . What we (c) of $10x^2 - 3x^2$ (c) P =	convex quadrilat parallelogram ill be its volume? 27 m^3 x-1 (10x + 1), (x - 5) Rs. 652 per is 100 (10%) per of people requise 12 1000 (2) (2)	(d) (d) (d) (d) (d) (d) (d) (d) (d)	25 m ³ (5x + 1), (2x - 1) none of these 112 $33\frac{1}{3}\%$ complete work in 1 18 225 2

68.	(x + a) (x + b) =						
	(a) 1			(b)	$x^2 + (a^2 + b^2) + 2ab$)	
	(c) 0			(d)	$x^2 + (a + b)x + ab$		
69.	$\sqrt{3}$ becomes rational of	on m	ultiplying by which	n of th	ne following numbe	rs?	
	(a) $\sqrt{2}$	പ്ര		(0)	0 /2	(പ)	All of these
	(a) $\sqrt{3}$	(U)	3√3	(C)	9√3	(u)	All of these
70.	A regular polygon havi	ing 3	sides is named as	<i>.</i> .			
	(a) a square	(b)	a trapezium	(c)	a kite	(d)	a triangle
71.	The standard form of 1	5240	0000 is				
	(a) 1.524×10^6	(b)	15.24×10^{7}	(c)	1.524×10^{8}	(d)	1.524×10^{7}
72.	After allowing a discou	int of	f 25%, a trouser wa	as sol	d for Rs. 210. Find	the	market price shirt.
	(a) Rs. 300	(b)	Rs. 250	(c)	Rs. 200	(d)	Rs. 280
73.	is a reduc	tion	given on marked p	orice			
	(a) Marked price	(b)	discount	(c)	Sale price	(d)	None of these
74.	Which of the following	is no	ot a perfect square	?			
	(a) 3600	(b)	1210	(c)	22500	(d)	4
75.	How many equal sides	does	s a cube has?				
	(a) 2	(b)	1	(c)	4	(d)	б
76.	The class mark of the	class	s interval (20 to 30) is			
	(a) 20	(b)	25	(c)	30	(d)	10
77.	The difference between	n the	highest and the lo	west	value of the observ	atior	ns in a data is called
	(a) Mean	(b)	Class mark	(c)	Median	(d)	Range
78.	If an increase in one of	quan	tity brings about a	corr	esponding decreas	e in	the other and vice-
	versa, then the two qu	lanti	ties vary				
	(a) directly			(b)	inversely		
	(c) sometimes directly	y soi	metimes inversely	(d)	none of these		
79.	Which of the following	poin	ts lie on the y-axis	?			
	(a) (0, 4)	(b)	(4, 0)	(c)	(0, 0)	(d)	(3, 3)
80.	The point $(3, 2)$ is n ar	er to					
	(a) x-axis	(b)	y-axis	(c)	origin	(d)	none of these
81.	A quadrilateral with or	nly o	ne pair of opposite	sides	s which are parallel	l	
	(a) square	(b)	rhombus	(c)	trapezium	(d)	rectangle
82.	A dice is thrown. find,	the p	probability of gettin	ng a p	orime number		
	(a) $\frac{2}{2}$	ക	1		1	(പ)	1
	^(a) 3	(U)	2	(C)	3	(u)	4
83.	If base area of room 12	2 m^2	and height is 3 m,	then	volume is		
	(a) 4 m^3	(b)	36 m ³	(c)	12 m ³	(d)	18 m ³
Q /	The value of $1 \frac{1}{1}$	ia					
04.	The value of $\sqrt{16}^+ \overline{9}$	15					
	(a) $\frac{12}{12}$	ക	7		12	(പ)	5
	^(a) 5	(U)	12	(C)	7	(u)	12
85	The value of v in the e	terne	ion $\frac{1}{1} = 5$ is				
00.		qual	x+1				
	(a) $\frac{-5}{-5}$	(h)	5	(c)	4	പ്ര	
	^(u) 4	(U)	4		5	(u)	5

86.	Which of the following <i>n</i> -sides?	g is a formula to find	the	sum of interior ar	ngles	of quadrilateral of
	(a) $\frac{n}{2} \times 180^{\circ}$	(b) $\left(\frac{n+1}{2}\right) \times 180^{\circ}$	(c)	$\left(\frac{n-1}{2}\right) \times 180^{\circ}$	(d)	$(n-2) \times 180^{\circ}$
87.	If x is an even number,	which is the next odd	num	ber?		
	(a) $x + 1$	(b) <i>x</i> + 2	(c)	<i>x</i> – 1	(d)	<i>x</i> – 2
88.	What is the reciprocal of	of $\left(\frac{-3}{4}\right)^{\circ}$?				
	(a) -1	(b) 1	(c)	$\frac{-4}{3}$	(d)	$\frac{4}{3}$
89.	Which of the following i	s the common factor of	21 <i>x</i>	^{2}y and $35xy^{2}$?		
	(a) 7	(b) 7 <i>xy</i>	(c)	ху	(d)	none of these
90.	If $x = 4y$, then x and y	vary with ea	ch ot	her.		
	(a) inversely		(b)	directly		
	(c) insufficient inform	ation	(d)	none of these		

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