



Studymate Foundation Paper

Science & Mathematics	CLASS							
(Set-2)	x							
General Instructions: 1. All questions are compulsory.								
	(Set-2)							

- **2.** Each question is allotted ONE mark for each correct response.
- **3.** No deduction from the total score will be made if no response is indicated for the question in the answer sheet.
- **4.** There is only **ONE** correct response for each question. Filling up **MORE THAN ONE** response in each question will be treated as wrong response and marks for wrong response will be deducted accordingly.
- **5.** Use of calculators is not allowed.

Section A - Science

- **1.** Choose the incorrect statement
 - (A) Fleming's right-hand rule is a simple rule to know the direction of induced current.
 - (B) The right-hand thumb rule is used to find the direction of magnetic fields due to currentcarrying conductors.
 - (C) The difference between the direct and alternating current is that the direct current always flows in one direction, whereas the alternating current reverses its direction periodically.
 - (D) In India, the AC changes direction after every 1/50 second.
- **2.** Choose the correct statement
 - (A) Sun is an expensive source of energy.
 - (B) There is infinite storage of fossil fuel inside the earth.
 - (C) Hydro and wind energy plants are renewable sources of energy.
 - (D) Waste from a nuclear power plant can be easily disposed off.
- **3.** The mirror used by ENT specialists is
 - (A) Plane mirror

(C) Convex mirror

- (B) Concave mirror(D) Plano-convex mirror
- **4.** Nature of the image formed by a convex mirror is
 - (A) Real, inverted, diminished (B) Virtual
 - (C) Real, inverted, enlarged (I
- (B) Virtual, erect, diminished
 - (D) Virtual, erect, enlarged
- **5.** The power of a lens is + 3.5 D. The lens is
 - (A) Convex (B) Plano-convex (C) Concave (D) Plano-concave
- **6.** In an electrical circuit, three incandescent bulbs A, B and C of rating 40 W, 60 W and 100 W respectively are connected in parallel to an electric source. Which of the following is likely to happen regarding their brightness?
 - (A) Brightness of all the bulbs will be the same
 - (B) Brightness of bulb B will be more than that of A
 - (C) Brightness of bulb A will be the maximum
 - (D) Brightness of bulb C wil be less than that of B

STUDY What is the minimum resistance which can be made using five resistors each of $1/5 \Omega$? 7. (A) $1/5 \Omega$ (B) 1/25 Ω (C) $1/10 \Omega$ (D) 25 Ω Magnetic induction does not involve 8. (A) placing a magnetic material near a magnet. (B) touching a magnetic material with a magnet. (C) induction of opposite pole on the nearer side of magnetic material facing the magnet. (D) induction of similar pole on the farther side of magnetic material away from the magnet. 9. Commercial electric motors do not use (A) an electromagnet to rotate the armature. (B) effectively large number of turns of conducting wire in the current-carrying coil. (C) a permanent magnetic to rotate the armature. (D) a soft iron core on which the coil is wound. **10.** The most important safety method used for protecting home appliances from short-circuiting or overloading is (A) earthing (B) use of fuse (D) use of electric meter (C) use of stabilizers **11.** The correctly balanced equation for FeS + $O_2 \rightarrow Fe_2O_3 + SO_2$ is ______. (A) $2\text{FeS} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + 4\text{SO}_2$ (B) $2\text{FeS} + 3\text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + 4\text{SO}_2$ (D) $4\text{FeS} + 7\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3 + 4\text{SO}_2$ (C) $4\text{FeS} + 4\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3 + 2\text{SO}_2$ 12. Which one of the following metals do react with cold as well as hot water? (A) Na (B) Ca (C) Mg (D) Fe **13.** An element has configuration 2, 8, 1. It belongs to, _____. (A) 1st group and 3rd period (B) 3rd group and 1st period (C) 1st group and 8th period (D) 17th group and 3rd period **14.** The law of modern periodic table was proposed by (A) D.I. Mendeleev (B) Dobereiner (C) H.G.I Moseley (D) Newlands **15.** The first alkali metal is _____ (A) Hydrogen (B) Lithium (C) Sodium (D) Francium 16. Which types of cells on retina respond to colours? (A) Rod-shaped (B) Box-shaped (C) Ball-shaped (D) Cone-shaped 17. A person cannot see distinctly objects kept beyond 2 m. This defect can be corrected by using a lens of power (A) + 0.5 D (B) -0.5 D (C) + 0.2 D (D) - 0.2 D 18. A student carries out an experiment and plots the I-V graph of three samples of nichrome wire with resistances R_1 , R_2 and R_3 respectively. Which of the following is true? R₂ R₃ (A) $R_1 = R_2 = R_3$ (B) $R_1 > R_2 > R_3$ (C) $R_2 > R_3 > R_1$ (D) $R_3 > R_2 > R_1$ 19. A cylindrincal conductor of length *l* and uniform area of cross-section A has resistance R. Another conductor of length 21 and resistance R of the same material has area of cross-section (A) A/2 (B) 3A/2 (C) 2A (D) 3A

							helps excel in boards
20.	The resistivity does n	ot ch	ange if				
	(A) the material is ch	lange	d.				
	(B) the temperature i	s cha	inged.				
	(C) the shape of the r	esiste	or is changed.				
	(D) both material and	l tem	perature are chang	ged.			
21.	Which of the following	g is no	ot a decomposition	reac	tion?		
	(A) $CaCO_3 \rightarrow CaO + C$	°O	-	(B)	$2\text{KClO}_3 \rightarrow 2\text{KCl} +$	3O_	
	(C) Digestion of food i	-	body		$H_2 + Cl_2 \rightarrow 2HCl$	2	
22.	The composition of ac		-	(-)	22		
	(A) Dil.HCl : Conc. HN	-	0	(B)	Conc. HCl : dil. H	NO	(1 · 3)
	(C) Conc. HCl : Conc.	-			Dil. HCl : Dil. HN	-	
23.	The most abundant m		-			03 (0	• -)
20.	(A) Al		Fe	(C)	0	(D)	Cu
24.	What happens when o	• • •				(D)	Cu
47.				valei			
	(i) It does not react v						
	(ii) It reacts violently						
	(iii) It reacts less viole				C C 1 :		
	(iv) Bubbles of hydrog						····> 1 ·· >
	(A) (i) and (iv)	(B)	(ii) and (iii)	(C)	(i) and (ii)	(D)	(iii) and (iv)
25.	Calcium phosphate is	-				-	<i>.</i> .
	(A) Basic	. ,	Acidic	(C)	Neutral	(D)	amphoteric
26.	Which of the following						
	(A) CH ₄		C_2H_6	(C)	C ₃ H ₈	(D)	C_4H_8
27.	In this reaction, alkal	ine K	MnO ₄ behaves as				
	CH_3 — CH_2 — OH Alkaline	KMnO ₄ +	$\xrightarrow{\text{Heat}} \text{CH}_3 \text{COOH}$				
	(A) reducing agent	(B)	oxidising agent	(C)	catalyst	(D)	dehydrating agent
28.	Identify the unsatuate	ed cor	npounds from the f	ollov	ving		
	I. Propane	II.	Propene	III.	Propyne	IV.	Chloropropane
	(A) I and II	(B)	II and IV	(C)	III and IV	(D)	II and III
29.	Which of the following	g salts	s does not contain v	wate	r of crystallisation?)	
	(A) Blue vitriol	(B)	Baking soda	(C)	Washing soda	(D)	Gypsum
30.	What happens when d	lilute	hydrochloric acid i	is ad	ded to iron fillings?)	
	(A) Hydrogen gas and	iron	chloride are produc	ced.			
	(B) Chlorine gas and i	iron h	ydroxide are produ	iced.			
	(C) No reaction takes	palco	e.				
	(D) Iron salt and wate	-					
31.	Which of these is hon		-	?			
	(A) Ss		SS	(C)	SS	(D)	s
32.		. ,		(-)		(-)	-
	(A) Primary consume			(B)	Secondary and te	rtiar	v consumers
	(C) Reducers	10		(D) (D)	Zooplankton.	'i tiai	y consumers
33	What will be the genor	typic	ratio of the cross h	• •	-		
55.	(A) 1:1	• -	3:1		1:2:1	(D)	1:1:1
	(4.3) 1.1	വ	0.1		1,4,1	رك	1.1.1

STUDY mate

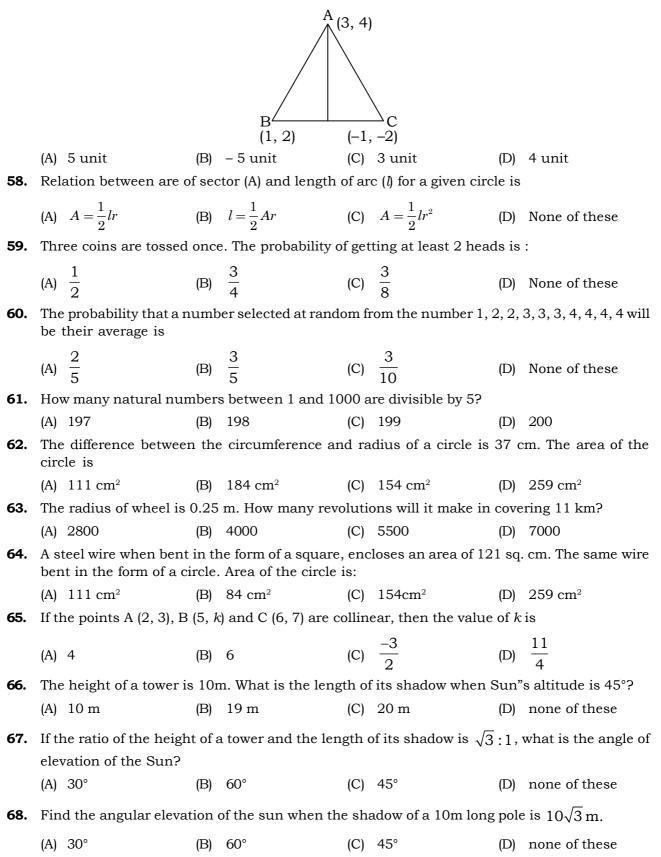
The number of chrome offsprings due to	osomes of a particular	diploid	l species remain	is const	ant from parents to		
(A) Meiosis after zygo	ote formation	(B)	Meiosis during	g gamet	e formation		
(C) Mitosis after zygo	te formation	(D)	Meiosis after e	mbryo	formation		
DDT was accidently added to the water of a lake. All the organisms in it would be affected by							
(A) Man		(B)	Birds living ne	ar the	lake		
(C) Fish living in the	lake	(D)	Aquatic plants	living	in the lake		
The development of fo	etus inside the uteru	s till bi	rth is called				
(A) Lactation	(B) Fertilization	(C)	Gestation	(D)	Implantation		
The concept of sustain	nable development en	courag	es				
(A) Form of growth th	at meets current basi	c need	S				
(B) Preservation of th	e resources for the ne	eed of f	uture generatio	n			
(C) A change in all as	pects of life						
(D) Growth to meet cu environment.	arrent needs, preserva	tion for	the needs of fut	ture and	d preservation of the		
Which among the follo	owing is the function o	of teste	s at puberty?				
(i) formation of germ	cells	(ii)	secretion of te	stostero	one		
(iii) development of pl	acenta	(iv)	secretion of es	trogen			
(A) (i) and (ii)	(b) (ii) and (iii)	(C)	(iii) and (iv)	(D)	(i) and (iv)		
Incomplete oxidation	of food in Yeast releas	es					
(A) ethyl alcohol and	(A) ethyl alcohol and carbon dioxide (B) carbon dioxide and water vapour						
(C) carbon dioxide an	d lactic acid	(D)	ethyl alcohol a	nd lacti	ic acid		
In the given food chain, suppose the amount of energy at fourth trophic level is 2 J, what will be the energy available at the producer level?							
Grass \rightarrow Grasshopper	$ \rightarrow \text{Frog} \rightarrow \text{Snake} \rightarrow \text{H}$	awk					
(A) 2 J	(B) 20 J	(C)	200 J	(D)	2000 J		
On what cellular stru	ctures are genes in e	ukaryo	tes carried?				
(A) Endoplasmic reticulum (B) Nuclear membrane							
(C) Chromosomes		(D)	Lysosome				
The only gaseous hor	mone present in plant	ts is					
(A) Auxins	(B) Ethylene	(C)	Cytokinin	(D)	ABA		
The advantage of larg	e number of thick wall	led spo	res in bread mo	uld is			
(i) that there is more probability for germination of the spores							
(ii) that can tide over unfavourably conditions							
(iii) formation of round shaped sporangia							
(iv) formation of hyphae							
		(C)	(i) and (ii)	(D)	(iii) and (iv)		
_			rious methods a	ire used	l in different regions		
(A) Rajasthan	(B) Maharashtra	(C)	Bihar	(D)	Uttar Pradesh		
	owing is a sexually tra	nsmitt	ed disease	. /			
(A) Hepatitis	(B) Gonorrhea		Laryngitis	(D)	Elephantiasis		
	offsprings due to (A) Meiosis after zygo (C) Mitosis after zygo DDT was accidently a DDT. Which of the org (A) Man (C) Fish living in the The development of fo (A) Lactation The concept of sustain (A) Form of growth th (B) Preservation of th (C) A change in all as (D) Growth to meet cu- environment. Which among the follo (i) formation of germ (iii) development of pla (A) (i) and (ii) Incomplete oxidation (A) ethyl alcohol and o (C) carbon dioxide an In the given food chair be the energy available Grass \rightarrow Grasshopper (A) 2 J On what cellular stru (A) Endoplasmic retion (C) Chromosomes The only gaseous horr (A) Auxins The advantage of largo (i) that there is more (ii) formation of round (iii) formation of nound (iv) formation of hyph (A) (i) and (iii) Water harvesting is ar of India. Khadins wate (A) Rajasthan	offsprings due to (A) Meiosis after zygote formation (C) Mitosis after zygote formation DDT was accidently added to the water of a DDT. Which of the organisms would be affec (A) Man (C) Fish living in the lake The development of foetus inside the uteru (A) Lactation (B) Fertilization The concept of sustainable development en (A) Form of growth that meets current basis (B) Preservation of the resources for the ne (C) A change in all aspects of life (D) Growth to meet current needs, preservate environment. Which among the following is the function of (i) formation of germ cells (iii) development of placenta (A) (i) and (ii) (b) (ii) and (iii) Incomplete oxidation of food in Yeast releas (A) ethyl alcohol and carbon dioxide (C) carbon dioxide and lactic acid In the given food chain, suppose the amour be the energy available at the producer level Grass \rightarrow Grasshopper \rightarrow Frog \rightarrow Snake \rightarrow H (A) 2 J (B) 20 J On what cellular structures are genes in en (A) Endoplasmic reticulum (C) Chromosomes The only gaseous hormone present in plant (A) Auxins (B) Ethylene The advantage of large number of thick wall (ii) that there is more probability for germin (iii) that can tide over unfavourably condition (iii) formation of round shaped sporangia (iv) formation of hyphae (A) (i) and (iii) (B) (ii) and (iv) Water harvesting is an age-old concept in In of India. Khadins water harvesting method (A) Rajasthan (B) Maharashtra	offsprings due to (A) Meiosis after zygote formation (B) (C) Mitosis after zygote formation (D) DDT was accidently added to the water of a lake. A DDT. Which of the organisms would be affected the (A) Man (B) (C) Fish living in the lake (D) The development of foetus inside the uterus till bi (A) Lactation (B) Fertilization (C) The concept of sustainable development encourage (A) Form of growth that meets current basic needs (B) Preservation of the resources for the need of formation of germ cells (D) Growth to meet current needs, preservation for environment. Which among the following is the function of tester (i) formation of germ cells (ii) (iii) development of placenta (iv) (A) (i) and (ii) (b) (ii) and (iii) (C) Incomplete oxidation of food in Yeast releases (A) ethyl alcohol and carbon dioxide (B) (C) carbon dioxide and lactic acid (D) In the given food chain, suppose the amount of embe the energy available at the producer level? Grass \rightarrow Grasshopper \rightarrow Frog \rightarrow Snake \rightarrow Hawk (A) 2 J (B) 20 J (C) On what cellular structures are genes in eukarrow (A) Endoplasmic reticulum (B) (C) Chromosomes (D) The only gaseous hormone present in plants is (A) Auxins (B) Ethylene (C) The advantage of large number of thick walled spo (i) that there is more probability for germination (ii) that can tide over unfavourably conditions (iii) formation of round shaped sporangia (iv) formation of nound shaped sporangia (iv) formation of hyphae (A) (i) and (iii) (B) (ii) and (iv) (C) Water harvesting is an age-old concept in India. Va of India. Khadins water harvesting method is used (A) Rajasthan (B) Maharashtra (C)	offsprings due to (A) Meiosis after zygote formation (B) Meiosis during (C) Mitosis after zygote formation (D) Meiosis after e DDT was accidently added to the water of a lake. All the organism DDT. Which of the organisms would be affected the most? (A) Man (B) Birds living ne (C) Fish living in the lake (D) Aquatic plants The development of foetus inside the uterus till birth is called (A) Lactation (B) Fertilization (C) Gestation The concept of sustainable development encourages (A) Form of growth that meets current basic needs (B) Preservation of the resources for the need of future generation (C) A change in all aspects of life (D) Growth to meet current needs, preservation for the needs of futu- environment. Which among the following is the function of testes at puberty? (i) formation of germ cells (ii) secretion of te- (iii) development of food in Yeast releases (A) ethyl alcohol and carbon dioxide (B) carbon dioxide (C) carbon dioxide and lactic acid (D) ethyl alcohol and In the given food chain, suppose the amount of energy at fourth tr be the energy available at the producer level? Grass \rightarrow Grasshopper \rightarrow Frog \rightarrow Snake \rightarrow Hawk (A) 2 J (B) 20 J (C) 200 J On what cellular structures are genes in eukaryotes carried? (A) Endoplasmic reticulum (B) Nuclear memb (C) Chromosomes (D) Lysosome The only gaseous hormone present in plants is (A) Auxins (B) Ethylene (C) Cytokinin The advantage of large number of thick walled spores in bread mo (i) that there is more probability for germination of the spores (ii) formation of round shaped sporangia (iv) formation of hyphae (A) (i) and (iii) (B) (ii) and (iv) (C) (i) and (ii) Water harvesting is an age-old concept in India. Various methods a of India. Khadins water harvesting method is used in	offsprings due to (A) Meiosis after zygote formation (B) Meiosis after zygote formation (C) Mitosis after zygote formation (D) Meiosis after zygote formation (D) Aquatic plants living The development of foetus inside the uterus till birth is called (A) Lactation (B) Fertilization (C) Gestation (D) The concept of sustainable development encourages (A) Form of growth that meets current basic needs (B) Preservation of the resources for the need of future generation (C) A change in all aspects of life (D) Growth to meet current needs, preservation for the needs of future and environment. Which among the following is the function of testes at puberty? (i) formation of germ cells (ii) secretion of testosterd (iii) development of food in Yeast releases (A) ethyl alcohol and carbon dioxide (B) carbon dioxide and lact: An the given food chain, suppose the amount of energy at fourth trophic to be the energy available at the producer level? Grass - Grasshopper -> Frog -> Snake -> Hawk (A) 2 J (B) 20 J (C) 200 J (D) On what cellular structures are genes in eukaryotes carried? (A) Endoplasmic reticulum (B) Nuclear membrane (C) Chromosomes (D) Lysosome The only gaseous hormone present in plants is (A) Auxins (B) Ethylene (C) Cytokinin (D) The advantage of large number of thick walled spores in bread mould is (i) that there is more probability for germination of the spores (ii) that can tide over unfavourably conditions (iii) formation of nound shaped sporangia (iv) formation of hyphae (A) (i) and (iii) (B) (ii) and (iv) (C) (i) and (ii) (D) Water harvesting is an age-old concept in India. Various methods are used of India. Khadins water harvesting method is used in (A) Rajasthan (B) Maharashtra (C) Bihar (D)		

Section – B (Mathematics)

	Section – D (Mathematics)							
46.	To draw a pair of tangents to a circle which are inclined to each other at an angle of 60°, it is required to draw tangents at end points of those two radii of the circle, the angle between them, should be							
	(A) 150°	(B)	90°	(C)	60°	(D)	120°	
47.	To construct a triangle	e sim	ilar to a given ∆AB	C wit	th its sides $\frac{2}{5}$ of the	ie coi	rresponding sides of	
	\triangle ABC, first draw a ray b of A with respect to BC BX is		-		-			
	(A) 3	(B)	5	(C)	8	(D)	2	
48.	To divide a line segment is an acute angle and the and the point B is joint	then	points A1, A2, A3,		-		-	
	(A) A4	(B)	A5	(C)	A10	(D)	A9	
49.	If a , $a - 2$ and $3a$ are in	n AP	, then the value of	a is				
	(A) –3	(B)	-2	(C)	3	(D)	2	
50.	The first, second and l are:	last t	erm of an AP are re	espeo	ctively 4, 7 and 31	. Nur	nber of terms in A.P	
	(A) 10	(B)	12	(C)	8	(D)	13	
51.	A cone and a hemisph	lere	have equal bases a	nd e	qual volumes. The	ratio	o of their heights is	
	(A) 1:2	(B)	2:1	(C)	1:3	(D)	3:1	
52.	The number of spheric whose edge measures			ter 2	cm which can be r	nade	out of a cube of lead	
	(A) 1550	(B)	2050	(C)	2241	(D)	2541	
53.	If tangents PA and PB angle of 80°, then \angle PC		-	cle v	with centre O are i	nclin	ed to each other at	
	(A) 60°	(B)	70°	(C)	80°	(D)	50°	
54.	PT is tangent to a circl	le wi	th centre O, OT = 5	6 cn	n. TP = 90 cm. the	n OP	is :	
	(A) 104 cm	(B)	107 cm	(C)	106 cm	(D)	105 cm	
55.	In the figure if TP and then \angle PTQ is equal to		re the two tangents	s to a	circle with centre	O so	that $\angle POQ = 110^{\circ}$,	
	P 110° Q Q							
	(A) 60°	(B)	70°	(C)	80°	(D)	90°	
56.	• What point on x - axis is equidistant from the point A (7, 6) and B (-3, 4)?							

(A) (0, 4) (B) (-4, 0) (C) (3, 0) (D) (0, 3)

57. If AP is median, then its length is



69. A tower subtends an angle of 30° at a point on the same level as its foot. At a second point '*h*' metres above the first, the depression of the foot of the tower is 60° . The height of the tower is

(A)
$$\frac{h}{2}$$
 m (B) $\frac{h}{3}$ m (C) $\sqrt{3}h$ m (D) $\frac{h}{\sqrt{3}}$ m
70. It $\cot \theta = \frac{7}{8}$, the value of $\frac{(1 + \cos \theta)(1 - \cos \theta)}{(1 - \sin \theta)(1 + \sin \theta)}$ is

(A)
$$\frac{49}{64}$$
 (B) $\frac{8}{7}$ (C) $\frac{64}{49}$ (D) $\frac{7}{8}$

71. Pranshi and Ria are friends. The probability that both will have same birthday (ignoring a leap year) is

(A)
$$\frac{1}{365}$$
 (B) $\frac{2}{365}$ (C) $\frac{1}{(365)^2}$ (D) None of these

72. Find the values of *k* for which the quadratic equation $k^2x^2 - 2(k-1)x + 4 = 0$ has real and equal roots

(A)
$$k = 0$$
 or $k = \frac{1}{3}$ (B) $k = 1$ or $k = \frac{1}{3}$ (C) $k = -1$ or $k = \frac{1}{3}$ (D) $k = -3$ or $k = \frac{1}{3}$

73. The sum of two numbers is 15 and the sum of their reciprocals is $\frac{3}{10}$. Find the numbers. (A) 14 and 5 (B) 14 and 15 (C) 10 and 5 (D) none of these

- 74 Which of the following is not a quadratic equation
- **74.** Which of the following is not a quadratic equation

(A)
$$x - \frac{3}{x} = 4$$
 (B) $3x - \frac{5}{x} = x^2$ (C) $x + \frac{1}{x} = 3$ (D) $x^2 - 3 = 4x^2 - 4x$

75. Which of the following is a solution of the quadratic equation $2x^2 + x - 6 = 0$

(A)
$$x = 2$$
 (B) $x = -12$ (C) $x = \frac{3}{2}$ (D) $x = -3$

76. There are 135 participants in english and 165 in mathematics in a seminar. Minimum number of rooms required to seat them, if each room must have the same number of participants from each of the subjects, are

77. If HCF of 65 and 117 is expressible in the form of 65x - 117 then x is

78. If a prime number p divides a^2 then which statement is true.

(A)
$$p$$
 divides a (B) a divides p (C) $p = a$ (D) $p > a$

79. Which one is true about prime factorisation of the denominator of the decimal expansion 278.1782

- (A) it is a product of powers of 2 and 5 (B) it is a power of 2 only
- (C) it is a power of 5 only (D) All of these

80. If α and β are the zeroes of polynomial $p(x) = x^2 + 2x + 1$, then $\left(\frac{1}{\alpha} + \frac{1}{\beta}\right) =$

(A) -2 (B) -1 (C) 2 (D) 1

81.	ΔABC is right angled a	at C, I	D is the mid-point	of BC	C. Then, $\frac{\tan\theta}{\tan\phi}$ will	be	
	(A) 1			A			
	(B) $\frac{1}{4}$						
	(C) $\frac{1}{2}$				ф <u></u>		
	(D) $\frac{1}{\sqrt{3}}$			С		В	
82.	The value of cos 1°. co	s 2°.	cos 3° cos 180°				
	(A) 2	(B)	1	(C)	0	(D)	$\frac{1}{2}$
83.	If $x \cos A = 1$ and $\tan A$	A = u	then $x^2 - u^2$ is equ				2
	(A) tan A	(B)	1	(C)	0	(D)	–tan A
84.	Which one is not a pos		e value of cosec θ	. ,		. ,	
	(A) $\frac{1}{2}$	(B)	2	(C)	3	(D)	4
85.	If n is a positive integer	er the	en ($n^2 - n$) is an alv	vays			
	(A) even integer			(B)	odd integer		
	(C) odd or even intege			(D)	multiple of 2 and	4	
86.	If one zero of polynom						
	(A) 9	```	±3	(C)		(D)	
87.	If degree of divisor $g(x)$						
~~	(A) 2	(B)		(C)		(D)	
88.	kx - y = 2 and $6x - 2y$ solution	<i>J</i> = 3,	value of k for which	cn tn	e above pair of lin	iear e	equations have uniq
	(A) 5	(B)	4	(C)	2	(D)	All are correct
89.	In a $\triangle ABC$, $\angle A = x^{\circ}$, $\angle B$	3 = 32	x° , $\angle C = y^{\circ}$ and $3y -$	- 5 <i>x</i> =	30° , then ∠B =		
	(A) 90°	(B)	60°	(C)	20°	(D)	45°
90.	Pair of equations $y = k$	and	x = a have				
	(A) unique solution	(B)	no solutions	(C)	many solutions	(D)	can't say

 $\times \cdot \times \cdot \times \cdot \times \cdot \times$