DAE / IA - 2011/3 Math 113 Applied Mathematics - I (1st Year)					
Paper - A (Part - A) Q.1: Encircle the correct answer.					
Q.1			$x^2 - 3x - 5 = 0$ is		
	3	(b) -3/2 -			(d) $-\frac{2}{3}$
			on is zero then th	e roots will	
			(c) equal		(d) irrational
3-					
	(a) $2a + (n + 1)d$	(b) a + (n + 1)		7 74-	(d) 2a + (n - 1)d
4-	The G.M betwe	en a and b is	1000		2ab
	(a) a+b	(b) ± √ab ~	(c) ab		(d) a + b
5-			$\sqrt{3}$ and $\times + \sqrt{3}$ is		
	(a) × ✓	(b) 2x	(c) 3		(d) -3
6-	(a) (n _r)a ⁿ b'		(c) (n,)a ⁿ b ⁿ		(d) (n _r)a ^{n+r} b ^r
7-			pansion of (a + b		(0) (14)4
	(a) 12	(b) 13	(c) 14 ×		(d) 15
-8-	The number of	Partial fraction	of $(x-1)(x+1)(x+1)$	-2 1) are:	
	(3) 2	(b) 3	(c) 4 -		(d) 5
9-	One degree is				
	(a) x	(b) = rad ~	(c) $\frac{180}{\pi}$ ra	d	(d) 1 360
10-			the angle lies in t		
	(a) 1 st	(b) 2nd	(c) 3rd ~		(d) 4 th
77 7 -	120° is equal to	0:			
	(a) $\frac{2\pi}{3}$	(b) 274 -	(c) $\frac{3\pi}{4}$		(d) $\frac{\pi}{4}$
12-	tan²0 - Sec²0 =				none of these
		(b) O	(c) -1 -	(0)	none or triese
13-	$\cos\left(\frac{\pi}{2} + \Theta\right)$ is e				
		(b) Sine	(c) -Sine -	(0)	Cose
14-	2sin		(c) Sin 2 x		None of these
15-			- 2bc Cos ∝ is e		
		(b) a ² ~	(c) c2		None of these
Ansv				11 13 1	13 14 15
lo lo	2 3 4 c c b	5 6 7 a a c	8 9 10 c b c	11 12 12 E	c c b
			IA 2011/4		
	PVI as	th 113 Appl	ied Mathemat	ics - I	
	THE STATE OF THE S		B (Part - A)		
Q-1:	Figures of the sa		form but of differe	nt size are o	called:
	(a) similar <) non-coplanar
2-	Area of a rhomb	us with diagonal	is d, and d ₂ is:		
2-					2 d, ×d ₂
3-	Area of a rhomb (a) $\frac{d_1 + d_2}{2}$ A regular polygo	us with diagonal (b) $\frac{d_1 \times d_2}{2}$ on having infinite	is d, and d_2 is: (c) $\frac{d_1 - d_2}{2}$ number of angles	(d) 2 d, ×d ₂
	(a) d ₁ + d ₂ 2 A regular polygo (a) hexagon	(b) $\frac{d_1 \times d_2}{2}$ (b) an having infinite (b) octagon	(c) d ₁ - d ₂ (c) d ₁ - d ₂ 2 number of angles (c) circle	(d	
3-	(a) d ₁ + d ₂ (b) 2 A regular polygo (c) hexagon The circumference	us with diagonal $d_1 \times d_2$ (b) $d_2 \times d_3$ n having infinite (b) octagon se of a circle of	Is d, and d ₂ is: $(c) \frac{d_1 - d_2}{2}$ number of angles $(c) \text{ circle } \checkmark$ radius 3.5cm is:	(d) 2 d ₁ ×d ₂) decagon
	Area of a rhombi (a) $\frac{d_1 + d_2}{2}$ A regular polygo (a) hexagon The circumference (a) 20cm	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon to of a circle of (b) 26cm	Is d ₁ and d ₂ is: $(c) \frac{d_1 - d_2}{2}$ number of angles $(c) \operatorname{circle} \checkmark$ radius 3.5cm is: $\% (c) 28cm$	(d s is: (d) decagon
	(a) d ₁ + d ₂ 2 A regular polygo (a) hexagon The circumference (a) 20cm A rectangular pri	(b) $\frac{d_1 \times d_2}{2}$ n having infinite (b) octagon ce of a circle of (b) 26cm ism whose length	Is d, and d_2 is: $(c) \frac{d_1 - d_2}{2}$ number of angles $(c) \operatorname{circle} \checkmark$ radius 3.5cm is: $(c) 28cm$ th, breadth and he	(d) 2 d, ×d,) decagon) 22cm /
	Area of a rhombing of the circumference (a) 20cm A rectangular price (a) cube The volume of a company of the circumference (b) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The volume of a company of the circumference (c) cube The circumference (c	(b) d ₁ × d ₂ n having infinite (b) octagon ce of a circle of (b) 26cm ism whose length (b) square circular base cyl	Is d, and d_z is: (c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th, breadth and he (c) cone inder is:	(d s is: (d (d sight are equ (d	2 d ₁ × d ₂ decagon
5-	Area of a rhombody and the circumference (a) 20cm A rectangular price (a) cube / Th volume of a cub (a) 2xrh ²	(b) d ₁ × d ₂ n having infinite (b) octagon ce of a circle of (b) 26cm ism whose lengt (b) square circular base cyl (b) xr²h	Is d, and d_2 is: $(c) \frac{d_1 - d_2}{2}$ number of angles $(c) \operatorname{circle} \checkmark$ radius 3.5cm is: $? (c) 28cm$ th, breadth and he $(c) \operatorname{cone}$ inder is: $(c) 2\pi rh$	(d) (d) sight are equ (d) 2 d, ×d,) decagon) 22cm / ual is a:) cylinder
5-	(a) d ₁ + d ₂ A regular polygo (a) hexagon The circumference (a) 20cm A rectangular pri (a) cube Th volume of a cub (a) 2πrh ² If / is the height	(b) d ₁ × d ₂ n having infinite (b) octagon ce of a circle of (b) 26cm (c) 26cm (d) square (d) square (d) xr ² h (d) xr ² h (e) t and 'r' is the	Is d, and d_z is: (c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th, breadth and he (c) cone inder is:	(d) (d) sight are equ (d) 2 d, ×d,) decagon) 22cm / ual is a:) cylinder
5-	Area of a rhombo d ₁ + d ₂ A regular polygo (a) hexagon The circumference (a) 20cm A rectangular pri (a) cube Th volume of a cub (a) 2xrh ² If / is the height pyramid, then	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon to of a circle of (b) 26cm to whose lengt (b) square circular base cyl (b) π^2h t and 'r' is the	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th. breadth and he (c) cone inder is: (c) $2\pi rh$	(d s is: (d sight are equ (d (d	2 d ₁ × d ₂) decagon) 22cm / lal is a:) cylinder) $\pi d^2 h$ s the base of a
4- 5- 6- 7-	Area of a rhombing $\frac{d_1+d_2}{2}$ A regular polygo (a) hexagon The circumference (a) 20cm A rectangular price (a) cube The volume of a comparation of the circumference (b) 2 π rh If f is the height pyramid, then (a) $\sqrt{f^2+r^2}$	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon (c) octagon (c) 26cm Som whose length (b) square circular base cylinter (b) π^2h It and 'r' is the list height is: (b) $\sqrt{r^2 + h^2}$	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (d) 28cm (e) cone (c) cone inder is: (c) $2\pi rh$ radius of inscrib	is is: (d ight are equation (d compared circle a	2 d, ×d; decagon 22cm Jal is a: cylinder 3 xd*h 5 the base of a
5-	Area of a rhombing $\frac{d_1+d_2}{2}$. A regular polygo (a) hexagon The circumference (a) 20cm A rectangular price (a) cube \checkmark Th volume of a company of the circumference (a) $2\pi rh^2$. If I is the height pyramid, then (a) $\sqrt{I^2+r^2}$. The curved su	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon (c) octagon (c) of a circle of (c) 26cm (c) is whose length (d) square circular base cylicity (d) π^2h It and 'r' is the lits height is: (b) $\sqrt{r^2 + h^2}$	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th. breadth and he (c) cone inder is: (c) $2\pi rh$ radius of inscrib	(ded circle a	2 d, ×d,) decagon) 22cm (al is a:) cylinder) πd [*] h s the base of a (d) πr/ dius 'r' is:
4- 5- 6- 7-	Area of a rhombing $\frac{d_1+d_2}{2}$. A regular polygon of the circumference of a constant of the circumference of a constant of the circumference of the circumference of a constant of the c	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon (c) octagon (c) 26cm Som whose length (b) square circular base cylinter (b) π^2h It and 'r' is the list height is: (b) $\sqrt{r^2 + h^2}$	Is d, and d_z is: (c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th. breadth and he (c) cone inder is: (c) $2\pi rh$ radius of inscrib (c) $\sqrt{r^2-r^2}$ cone of height 'h':	(ded circle a	2 d, ×d; decagon 22cm Jal is a: cylinder 3 xd*h 5 the base of a
4- 5- 6- 7-	Area of a rhombing $\frac{d_1+d_2}{2}$. A regular polygon of the circumference of a rectangular price of a cube of the circumference of a cube of the circumference of a cube of the cube of	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon (c) octagon (c) octagon (c) octagon (d) 26cm (d) 26cm (d) square (d) square (d) π^2h (e) π^2h (fix height is: (b) π^2h (fix height is: (b) π^2h (c) π^2h (d) π^2h (e) π^2h (fix height is: (b) π^2h (fix height is: (c) π^2h (d) π^2h (e) π^2h (fix height is:	Is d, and d_z is: (c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th. breadth and he (c) cone inder is: (c) $2\pi rh$ radius of inscrib (c) $\sqrt{r^2-r^2}$ cone of height 'h':	(ded circle a	2 d, ×d,) decagon) 22cm (al is a:) cylinder) πd [*] h s the base of a (d) πr/ dius 'r' is:
4- 5- 6- 7-	Area of a rhombo (a) $\frac{d_1+d_2}{2}$ A regular polygo (a) hexagon The circumference (a) 20cm A rectangular priority (a) cube / Th volume of a company of	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon (c) octagon (c) octagon (c) octagon (d) 26cm (d) 27cm (d	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th. breadth and he (c) cone inder is: (c) 2 π rh radius of inscrib (c) $\sqrt{f^2-f^2}$ cone of height h' : (c) π r ρ meter D is: (c) 4π D 2	(ded circle a	2 d, ×d,) decagon) 22cm (al is a:) cylinder) πd [*] h s the base of a (d) πr/ dius 'r' is:
4- 5- 6- 7- 8-	Area of a rhombo (a) $\frac{d_1+d_2}{2}$ A regular polygo (a) hexagon The circumference (a) 20cm A rectangular priority (a) cube / Th volume of a company of	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon (c) octagon (c) of a circle of (d) square (d) square (e) t and 'r' is the (e) $\sqrt{r^2 + h^2}$ If a sphere of diameter (e) $\frac{\pi}{4}$ and b will be and b will be $\frac{\pi}{4}$	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th, breadth and he (c) cone inder is: (c) $2\pi rh$ radius of inscrib (c) $\sqrt{f^2-f^2}$ cone of height 'h': (c) $4\pi D^2$ (e)	(ded circle a	2 d, xd, decagon 22cm 2al is a: cylinder xd*h s the base of a (d) xr/ dius 'r' is: (d) xr/ (d) xr/ (d) xr/
4- 5- 6- 7- 8-	Area of a rhombia (a) $\frac{d_1+d_2}{2}$ A regular polygo (a) hexagon The circumference (a) 20cm A rectangular priority (a) cube \checkmark Th volume of a comparable (a) $2\pi rh^2$ If / is the height pyramid, then (a) $\sqrt{f^2+r^2}$ The curved su (b) πr^2 The volume of (a) $\frac{4}{3}\pi r^2$ If a b = 0, there (a) parallel	the with diagonal $(b) \frac{d_1 \times d_2}{2}$ on having infinite (b) octagon to of a circle of (b) 26cm whose length (b) square size (b) square size (b) $\pi r^2 h$ of (b) (b) (b) (b) (b) (b) (b) (b) unparallel of (b) of (b) (b) unparallel of (b) (b) unparallel of (b) (b) unparallel of (b) (b) (b) unparallel of (b) (b) (b) unparallel of (b)	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th. breadth and he (c) cone inder is: (c) 2 π rh radius of inscrib (c) π r cone of height π (c) π r imported D is: (c) π r (d) π r (e) π r (e) π r (f) π r (f) π r (f) π r (g) π r (g) π r (g) π r (g) π r (he)	is: (d sight are equal (d coed circle a and base rain	2 d, ×d, decagon) 22cm (a) is a:) cylinder) xd=h s the base of a (d) xr/ dius 'r' is: (d) xr/
4- 5- 6- 7- 8- 9- 10-	Area of a rhombing $\frac{d_1+d_2}{2}$. A regular polygo (a) hexagon The circumference (a) 20cm A rectangular prior (a) cube \checkmark Th volume of a (a) $2\pi rh^2$ If I is the height pyramid, then (a) $\sqrt{I^2+I^2}$ The curved su (a) πr^2I The volume of (a) $\frac{\pi}{3}\pi r^2$ If a.b. = 0, then (a) parallel The magnitude (a) 4	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon (ce of a circle of (b) 26cm (ce) is more whose length (b) square (ce) is the circular base cylication (b) $\frac{d_1}{d_1}$ It and 'r' is the lits height is: (b) $\sqrt{r^2 + h^2}$ If ace area of a (ce) $\frac{d_1}{d_2}$ a sphere of diameter (b) $\frac{d_2}{d_3}$ (b) $\frac{d_3}{d_4}$ (ce) in parallel (ce) $\frac{d_1}{d_3}$ (d) $\frac{d_2}{d_3}$	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: $?$ (c) 28cm th, breadth and he (c) cone inder is: (c) 2 π th radius of inscrib (c) $\sqrt{f^2-f^2}$ cone of height $?$? (c) πr^p meter D is: (c) 4π D? (c) perpendiction (c) perpendiction (c) 2	(ded circle a	2 d ₁ × d ₂ d ₂ × d ₃ d ₃ × d ₃ d ₄ × d ₃ d ₄ × d ₃ d ₄ d ₅ d ₆ d ₇
4- 5- 6- 7- 8- 9-	Area of a rhombia $\frac{d_1+d_2}{2}$ A regular polygo (a) hexagon The circumference (b) 20cm A rectangular prior (c) 20cm A rectangular prior (c) 20cm A rectangular prior (c) 2πrh² If is the height pyramid, then (c) $\sqrt{f^2+f^2}$ The curved su (c) πf^2 The volume of (c) $\frac{4}{3}\pi f^2$ If a b = 0, there (c) parallel The magnitude (c) 4 If and 1 are un	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon (c) octagon	(c) d ₁ - d ₂ number of angles (c) circle radius 3.5cm is: (c) 28cm (c) cone inder is: (c) 2πth radius of inscrib cone of height 'h' : (c) 4πD ² (c) perpendius is: (c) 2 - r	ed circle a	2 d, ×d; decagon) 22cm (a) 22cm (a) is a:) cylinder) xd*h s the base of a (d) xr/ dius 'r' is: (d) xr/ (d) \(\frac{\pi}{6} \) D* (d) collinear (d) 1 cylinder
4- 5- 6- 7- 8- 9- 10- 11- 12-	Area of a rhombia $\frac{d_1+d_2}{2}$ A regular polygo (a) hexagon The circumference (b) 20cm A rectangular prior (c) 20cm A rectangular polygon A rectangular polygon A rectangular polygon A rectangular polygon A rectangular prior (c) 20cm A rectangul	the with diagonal $(b) \frac{d_1 \times d_2}{2}$ in having infinite (b) octagon be of a circle of (b) 26cm is whose length (b) square circular base cylicity (b) π^2h is the its height is: $(b) \sqrt{r^2 + h^2}$ if ace area of a $(b) 2\pi rl$ a sphere of diagonal $(b) \frac{\pi}{4} D^2$ is a and b will be (b) unparallel of $21 - 2l - k$ will be of $2l - 2l - k$ will be only as $2l - 2l - 2l - k$ will be only as $2l - 2l - 2l - 2l - 2l$ will be only as $2l - 2l - 2l$ will be only as $2l - 2l - 2l$ will be only	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th. breadth and he (c) cone inder is: (c) 2 π rh radius of inscrib (c) 2π rh radius of inscrib (c) 4π D (c) 4π D (c) perpendiction (c) 2 (c) perpendiction (c) 2 (c) 1 x-axis and y-axis (c) -1	ed circle a	2 d ₁ × d ₂ d ₂ × d ₃ d ₃ × d ₃ d ₄ × d ₃ d ₄ × d ₃ d ₄ d ₅ d ₆ d ₇
4- 5- 6- 7- 8- 9- 10-	Area of a rhombo (a) \frac{d_1 + d_2}{2} A regular polygo (a) hexagon The circumference (a) 20cm A rectangular price (a) cube Th volume of a co (a) 2\pirits If is the height pyramid, then (a) \sqrt{f^2} + \ric The curved su (a) \pirits The volume of (a) \frac{d_3}{3}\pirits If is b = 0, then (a) parallel The magnitude (a) 4 If i and i are un (a) 0 The value of	the with diagonal $(b) \frac{d_1 \times d_2}{2}$ on having infinite (b) octagon (b) octagon (b) octagon (b) octagon (b) square sircular base cylindrically (b) $\pi r^2 h$ of (b) (c) $(c$	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle \checkmark radius 3.5cm is: (c) 28cm th, breadth and he (c) cone inder is: (c) 2 π rh radius of inscrib (c) $\sqrt{f^2-f^2}$ cone of height 'h': (c) π rb impeter D is: (c) 4π D ² (e) (c) perpensions (d) 2 x-axis and y-axis (c) -1	dicular / then // is e	2 d, ×d, decagon 22cm Lal is a: cylinder xd=h s the base of a (d) xr/ dius 'r' is: (d) xr/ (d) x C (d) x C
4- 5- 6- 7- 8- 9- 10- 11- 12-	Area of a rhombia $\frac{d_1+d_2}{2}$ A regular polygo (a) hexagon The circumference (b) 20cm A rectangular prior (c) 20cm A rectangular polygon A rectangular polygon A rectangular polygon A rectangular polygon A rectangular prior (c) 20cm A rectangul	the with diagonal $(b) \frac{d_1 \times d_2}{2}$ in having infinite (b) octagon be of a circle of (b) 26cm is whose length (b) square circular base cylicity (b) π^2h is the its height is: $(b) \sqrt{r^2 + h^2}$ if ace area of a $(b) 2\pi rl$ a sphere of diagonal $(b) \frac{\pi}{4} D^2$ is a and b will be (b) unparallel of $21 - 2l - k$ will be of $2l - 2l - k$ will be only as $2l - 2l - 2l - k$ will be only as $2l - 2l - 2l - 2l - 2l$ will be only as $2l - 2l - 2l$ will be only as $2l - 2l - 2l$ will be only	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle $$ radius 3.5cm is: $\frac{1}{2}$ (c) 28cm th. breadth and he (c) cone inder is: (c) 2 π th radius of inscrib (c) $\frac{1}{2}$ (d) $\frac{1}{2}$ (e) perpendicular is: (c) $\frac{1}{2}$ (c) $\frac{1}{2}$ (d) $\frac{1}{2}$ (e) $\frac{1}{2}$ (e) $\frac{1}{2}$ (f)	dicular then A is a	2 d, ×d; decagon) 22cm (a) 22cm (a) is a:) cylinder) xd*h s the base of a (d) xr/ dius 'r' is: (d) xr/ (d) \(\frac{\pi}{6} \) D* (d) collinear (d) 1 cylinder
4- 5- 6- 7- 8- 9- 10- 11- 12- 13	Area of a rhombia (a) \(\frac{d_1 + d_2}{2} \) A regular polygo (a) hexagon The circumference (a) 20cm A rectangular price (a) cube \(\frac{7}{1} \) Th volume of a complete	(b) $\frac{d_1 \times d_2}{2}$ In having infinite (b) octagon (c) octagon	(c) $\frac{d_1-d_2}{2}$ number of angles (c) circle $$ radius 3.5cm is: $\frac{1}{2}$ (c) 28cm th. breadth and he (c) cone inder is: (c) 2 π th radius of inscrib (c) $\frac{1}{2}$ (d) $\frac{1}{2}$ (e) perpendicular is: (c) $\frac{1}{2}$ (c) $\frac{1}{2}$ (d) $\frac{1}{2}$ (e) $\frac{1}{2}$ (e) $\frac{1}{2}$ (f)	dicular / then // is e	2 d, ×d, decagon 22cm Lal is a: cylinder xd=h s the base of a (d) xr/ dius 'r' is: (d) xr/ (d) x C (d) x C
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