	Math 1	13 Applied M	IA - 2011/3 lathematics - I	(1st Year)
		Paper -	A (Part - A)	
Q.1	Encircle the		x - 3x - 5 = 0 is:	
	3	(b) -3/2 ~		(d) -2/3
			n is zero then the ro	
			(c) equal	(d) irrational
3-				
	(a) 2a + (n + 1)d	(b) $a + (n + 1)d$		(d) 2a + (n - 1)d
4-	The G.M betwe	en a and b is		2ab
	(a) a+b	(b) ± √ab ~	(c) ab	(d) a+b
5-			3 and $x + \sqrt{3}$ is:	
	(a) × ✓	(b) 2×	(c) 3	(d) -3
6-		(b) (n <sub>r</sub> )a'b"	on of (a + b)° are: (c) (n,)a°b°	(d) (n <sub>r</sub> )a <sup>n+r</sup> b <sup>r</sup>
7-			ansion of (a + b)13	
	(a) 12	(b) 13	(c) 14 ×	(d) 15
8-	The number of	Partial fraction o	x + 2 $(x-1)(x+1)(x^2-$	i) are:
	(a) 2	(b) 3	(c) 4 ~	(d) 5
9-	One degree is			
	(a) x	(b) = rad <	(c) $\frac{180}{\pi}$ rad	(d) 360
10-			ne angle lies in the	
	(a) 1 <sup>st</sup>	(b) 2 <sup>nd</sup>	(c) 3rd ~	(d) 4 <sup>th</sup>
77.7	120° is equal to	9:		
	(a) $\frac{2\pi}{3}$	(b) 27 -	(c) $\frac{3\pi}{4}$	(d) $\frac{\pi}{4}$
12-	tan²0 - Sec²0 =			(d) none of these
		(b) O	(c) -1 V	(d) none of these
13-	$\cos\left(\frac{\pi}{2} + \Theta\right)$ is e			
		(b) Sine	(c) -Sine -	(d) Cose
14-	2sin × Cos × is		(c) Sin 2 x v	(d) None of these
15-			2bc Cos ∝ is equa	
		(b) a= ~	(c) c2	(d) None of these
Ansv				12   13   14   15
T Bo	2 3 4 c c b	5 6 7 a a c	8 9 10 11 c b c b	
			2011/4	
	Ma	th 113 Applie	ed Mathematics	· - I
	TIN A		B (Part - A)	
Q-1:	Encircle the co			
			rm but of different s	
	(a) similar ~	(b) congruent		(d) non-coplanar
2-	(a) similar -	(b) congruent us with diagonals	(c) coplanar d, and d <sub>2</sub> is:	(d) non-coplanar
2-	(a) similar -	(b) congruent	(c) coplanar	
3-	(a) similar  Area of a rhombi (a) d <sub>1</sub> +d <sub>2</sub> A regular polygor	(b) congruent us with diagonals (b) d <sub>1</sub> × d <sub>2</sub> (c) 2	(c) coplanar d, and d <sub>2</sub> is: (c) d <sub>1</sub> - d <sub>2</sub> (c) 2 number of angles is:	(d) non-coplanar (d) 2 d, ×d,
	(a) similar Area of a rhombi (a) $\frac{d_1+d_2}{2}$ A regular polygor (a) hexagon	(b) congruent us with diagonals (b) $\frac{d_1 \times d_2}{2}$ n having infinite r	(c) coplanar d₁ and d₂ is: (c) d₁ - d₂ 2 number of angles is: (c) circle ✓	(d) non-coplanar (d) 2 d <sub>1</sub> × d <sub>2</sub>
3-	(a) similar  Area of a rhombi  (a) d <sub>1</sub> + d <sub>2</sub> A regular polygor  (a) hexagon  The circumference	(b) congruent us with diagonals (b) $\frac{d_1 \times d_2}{2}$ n having infinite r (b) octagon se of a circle of re-	(c) coplanar d, and $d_2$ is: (c) $\frac{d_1-d_2}{2}$ number of angles is: (c) circle $\checkmark$ adius 3.5cm is:	(d) non-coplanar  (d) 2 d, ×d,  (d) decagon
	(a) similar  Area of a rhombi (a) d <sub>1</sub> +d <sub>2</sub> A regular polygor (a) hexagon  The circumference (a) 20cm	(b) congruent us with diagonals (b) 2 n having infinite r (b) octagon ce of a circle of ra (b) 28cm	(c) coplanar d, and d <sub>2</sub> is: (c) d <sub>1</sub> - d <sub>2</sub> (c) 2  (c) circle  (c) circle (c) 28cm	(d) non-coplanar  (d) $\frac{2}{d_1 \times d_2}$ (d) decagon  (d) 22cm
	(a) similar  Area of a rhombi (a) d <sub>1</sub> +d <sub>2</sub> A regular polygor (a) hexagon  The circumference (a) 20cm  A rectangular pri	(b) congruent us with diagonals (b) $\frac{d_1 \times d_2}{2}$ n having infinite r (b) octagon ce of a circle of r (b) 26cm sm whose length	(c) coplanar d, and $d_z$ is: $(c) \frac{d_1 - d_2}{2}$ number of angles is: $(c) \text{ circle} \checkmark$ adius 3.5cm is: $(c) 28cm$ , breadth and height	(d) non-coplanar  (d) 2  (d) decagon  (d) 22cm   t are equal is a:
	(a) similar  Area of a rhombi (a) d <sub>1</sub> +d <sub>2</sub> A regular polygor (a) hexagon  The circumference (a) 20cm  A rectangular pri (a) cube  Th volume of a company of a c	(b) congruent us with diagonals (b) 2 n having infinite r (b) octagon ce of a circle of ra (b) 26cm (b) 26cm (c) square circular base cyling	(c) coplanar d, and d <sub>2</sub> is:   (c) 2 number of angles is:   (c) circle /   (c) 28cm   breadth and heigh   (c) cone	(d) non-coplanar  (d) 2  (d) decagon  (d) 22cm   t are equal is a:  (d) cylinder
4- 5-	(a) similar  Area of a rhombi  (a) d <sub>1</sub> + d <sub>2</sub> A regular polygor  (a) hexagon  The circumference  (a) 20cm  A rectangular pri  (a) cube  Th volume of a cub  (a) 2xrh <sup>2</sup>	(b) congruent us with diagonals (b) $\frac{d_1 \times d_2}{2}$ n having infinite r (b) octagon ce of a circle of ra (b) 26cm sm whose length (b) square circular base cylin (b) $\pi r^2 h$	(c) coplanar d <sub>1</sub> and d <sub>2</sub> is: $(c) \frac{d_1 - d_2}{2}$ number of angles is: $(c) \text{ circle } \checkmark$ adius 3.5cm is: $(c) 28cm$ breadth and heigh $(c) \text{ cone}$ ider is: $(c) 2\pi rh$	(d) non-coplanar  (d) 2/d, ×d,  (d) decagon  (d) 22cm ✓  t are equal is a:  (d) cylinder  (d) πσ²h
4- 5-	(a) similar  Area of a rhombi (a) \( \frac{d_1 + d_2}{2} \)  A regular polygor  (a) hexagon  The circumference (a) 20cm  A rectangular pri (a) cube  Th volume of a co (a) 2\pirh <sup>2</sup> If / is the height	(b) congruent us with diagonals (b) d × d 2 n having infinite r (b) octagon ce of a circle of r (b) 26cm sm whose length (b) square circular base cylin (b) πr t and 'r' is the r	(c) coplanar d <sub>1</sub> and d <sub>2</sub> is: $(c) \frac{d_1 - d_2}{2}$ number of angles is: $(c) \text{ circle } \checkmark$ adius 3.5cm is: $(c) 28cm$ breadth and heigh $(c) \text{ cone}$ ider is: $(c) 2\pi rh$	(d) non-coplanar  (d) 2  (d) decagon  (d) 22cm   t are equal is a:  (d) cylinder
4- 5-	(a) similar Area of a rhombi (a) d, +d, (a) 2  A regular polygor (a) hexagon The circumference (a) 20cm A rectangular pri (a) cube Th volume of a c (a) 2πh² If / is the height pyramid, then	(b) congruent us with diagonals d <sub>1</sub> × d <sub>2</sub> (b) 2 n having infinite r (b) octagon ce of a circle of r (b) 26cm sm whose length (b) square circular base cylin (b) xr <sup>2</sup> h t and 'r' is the r its height is:	(c) coplanar d, and d₂ is:   (c) d₁ - d₂  number of angles is:   (c) circle ✓ adius 3.5cm is:   (c) 28cm breadth and heigh   (c) cone der is:   (c) 2πrh adius of inscribed	(d) non-coplanar  (d) 2  (d) decagon  (d) 22cm   t are equal is a:  (d) cylinder  (d) $\pi d^2 h$ circle as the base of a
4- 5- 6- 7-	(a) similar $\checkmark$ Area of a rhombit (a) $\frac{d_1+d_2}{2}$ A regular polygor (a) hexagon The circumference (a) 20cm A rectangular price (a) cube $\checkmark$ Th volume of a comparation of the compa	(b) congruent us with diagonals (b) $\frac{d}{d} \times \frac{d}{d}$ . In having infinite r (b) octagon (c) octagon (b) 26cm (c) square (c) square (d) $\pi$ whose length (d) $\pi$ of t and r is the r its height is:	(c) coplanar d, and d <sub>2</sub> is:   (c) d <sub>1</sub> - d <sub>2</sub> (c) circle   (c) circle   (c) 28cm   breadth and heigh   (c) cone   (c) 2πh   adius of inscribed	(d) non-coplanar  (d) 2  (d) decagon  (d) 22cm   t are equal is a:  (d) cylinder  (d) $\pi d^2 h$ circle as the base of a
4- 5-	(a) similar $\checkmark$ Area of a rhombia (a) $\frac{d_1+d_2}{2}$ A regular polygor (a) hexagon The circumference (a) 20cm A rectangular pri (a) cube $\checkmark$ Th volume of a co (a) $2\pi rh^2$ If $f$ is the height pyramid, then (a) $\sqrt{f^2+f^2}$ The curved su	(b) congruent us with diagonals (b) $\frac{d_1 \times d_2}{2}$ n having infinite r (b) octagon se of a circle of ra (b) 26cm. Sm whose length (b) square circular base cylin (b) $\pi r^2 h$ t and 'r' is the r its height is:  (b) $\sqrt{r^2 + h^2}$ rface area of a co	(c) coplanar d, and d <sub>2</sub> is:   (c) d <sub>1</sub> - d <sub>2</sub> (c) circle   (c) circle   (c) 28cm   breadth and heigh   (c) cone   (c) 2πh   adius of inscribed	(d) non-coplanar  (d) 2  (d) decagon  (d) 22cm   (are equal is a: (d) cylinder  (d) $\pi d^2 h$ circle as the base of a  (d) $\pi \pi d^2 h$ base radius 'r is:
4- 5- 6- 7-	(a) similar Area of a rhombi Area of a rhombi (a) d, +d, A regular polygor (a) hexagon The circumference (a) 20cm A rectangular pri (a) cube Th volume of a c (a) 2πrh <sup>2</sup> If / is the height pyramid, then (a) √/² + r <sup>2</sup> The curved su (a) πr <sup>2</sup> /	(b) congruent us with diagonals (b) $\frac{d}{d} \times \frac{d}{d}$ . In having infinite r (b) octagon (c) octagon (b) 26cm (c) square (c) square (d) $\pi$ whose length (d) $\pi$ of t and r is the r its height is:	(c) coplanar d, and d <sub>2</sub> is: d <sub>1</sub> - d <sub>2</sub> (c) 2 number of angles is: (c) circle (c) circle (c) 28cm breadth and heigh (c) cone (c) 2πh adius of inscribed  (c) √f <sup>2</sup> - r <sup>2</sup> one of height 'h' and (c) πrf <sup>6</sup>	(d) non-coplanar  (d) 2  (d) decagon  (d) 22cm   t are equal is a:  (d) cylinder  (d) $\pi d^2 h$ circle as the base of a
4- 5- 6- 7-	(a) similar $\checkmark$ Area of a rhombit (a) $\frac{d_1+d_2}{2}$ A regular polygor (a) hexagon The circumference (a) 20cm A rectangular price (a) cube $\checkmark$ Th volume of a comparable (a) $2\pi rh^2$ If $f$ is the height pyramid, then (a) $\sqrt{f^2+r^2}$ The curved sum (a) $\pi r^2/f$	(b) congruent us with diagonals (b) $\frac{d}{d} \times \frac{d}{d}$ . In having infinite right (b) octagon to of a circle of right (b) 26cm. Similarly base length (b) square (c) $\pi$ is the right to $\pi$ is the right (b) $\pi$ is the right (c) $\pi$ is the right is:  (b) $\pi$ is the right and $\pi$ is the right and $\pi$ is the right as a sphere of diagram as sphere of diagram as $\pi$ is sphere of diagram.	(c) coplanar d, and d <sub>2</sub> is: d <sub>1</sub> - d <sub>2</sub> (c) 2 number of angles is: (c) circle (c) circle (c) 28cm breadth and heigh (c) cone (c) 2πh adius of inscribed  (c) √f <sup>2</sup> - r <sup>2</sup> one of height 'h' and (c) πrf <sup>6</sup>	(d) non-coplanar  (d) 2  (d) decagon  (d) 22cm   (are equal is a: (d) cylinder  (d) $\pi d^2 h$ circle as the base of a  (d) $\pi \pi d^2 h$ base radius 'r is:
4- 5- 6- 7-	(a) similar $\checkmark$ Area of a rhombit (a) $\frac{d_1+d_2}{2}$ . A regular polygod (a) hexagon The circumference (a) 20cm A rectangular price (a) cube $\checkmark$ Th volume of a comparable (a) $2\pi rh^2$ If $f$ is the height pyramid, then (a) $\sqrt{f^2+r^2}$ The curved sum (a) $\pi r^2/$ The volume of (a) $\frac{4}{3}\pi r^3/$	(b) congruent us with diagonals (b) $\frac{d}{2} \times \frac{d}{2}$ . In having infinite representation (b) octagon (c) octagon (c) 26cm (c) 26cm (d) 26cm (d) 26cm (d) $\pi$ whose length (e) $\pi$ whose length (f) $\pi$ is the representation (f) $\pi$ is the represe	(c) coplanar d, and d <sub>2</sub> is:   (c) d <sub>1</sub> - d <sub>2</sub> (c) circle   (c) circle   (c) 28cm   breadth and heigh   (c) cone   (c) 2πh   adius of inscribed  (c) $\sqrt{r^2 - r^2}$ one of height 'h' and   (c) $\pi r^p$ heter D is:   (c) $4\pi D^2$	(d) non-coplanar  (d) 2  (d) decagon  (d) 22cm   (are equal is a: (d) cylinder  (d) $\pi d^2 h$ circle as the base of a  (d) $\pi \pi d^2 h$ base radius 'r is:
4- 5- 6- 7- 8-	(a) similar $\checkmark$ Area of a rhombit (a) $\frac{d_1+d_2}{2}$ . A regular polygod (a) hexagon The circumference (a) 20cm A rectangular price (a) cube $\checkmark$ Th volume of a comparable (a) $2\pi rh^2$ If $f$ is the height pyramid, then (a) $\sqrt{f^2+r^2}$ The curved sum (a) $\pi r^2/$ The volume of (a) $\frac{4}{3}\pi r^3/$	(b) congruent us with diagonals with diagonals $\frac{d_1 \times d_2}{2}$ in having infinite r (b) octagon confidence of a circle of rate (b) 26cm. Some whose length (b) square circular base cyling (b) $\pi r^2 h$ than $\frac{d_1}{r}$ is the rate $\frac{d_2}{r}$ is the rate $\frac{d_2}{r}$ asphere of diam $\frac{d_2}{r}$ and $\frac{d_2}{r}$ will be and $\frac{d_1}{r}$ will be	(c) coplanar d, and d₂ is:    (c)	(d) non-coplanar  (d) 2  (d) decagon  (d) 22cm   (are equal is a: (d) cylinder  (d) $\pi d^2 h$ circle as the base of a  (d) $\pi \pi d^2 h$ base radius 'r is:
4- 5- 6- 7- 8-	(a) similar $\checkmark$ Area of a rhombit $d_1 + d_2$ (a) $\frac{1}{2} + d_3$ A regular polygod (a) hexagon The circumference (a) 20cm A rectangular price (a) cube $\checkmark$ Th volume of a complete (a) $2\pi h^2$ If $f$ is the height pyramid, then (a) $\sqrt{f^2 + r^2}$ The curved sure (a) $\pi^2 f$ The volume of (a) $\frac{4}{3}\pi r^2$ If $a,b=0$ , then (a) paralled	(b) congruent us with diagonals with diagonals (b) $\frac{d}{d} \times \frac{d}{d}$ , n having infinite r (b) octagon ce of a circle of rate (b) 28cm (b) 28cm (b) 28cm (b) square (b) $\frac{d}{d} \times \frac{d}{d} \times \frac{d}{d}$ is the rate height is: (b) $\frac{d}{d} \times \frac{d}{d} \times \frac{d}{d} \times \frac{d}{d}$ a sphere of diam (b) $\frac{\pi}{d} \times \frac{d}{d} \times \frac{d}{d}$	(c) coplanar d, and d <sub>2</sub> is:   (c) d <sub>1</sub> - d <sub>2</sub> (c) d <sub>1</sub> - d <sub>2</sub> (c) circle  (c) circle  (c) 28cm  breadth and height   (c) cone  (c) 2πh  adius of inscribed  (c) 2πh  adius of inscribed  (c) πr  beter D is:   (c) 4πD <sup>2</sup> (c) perpendiculated	(d) non-coplanar  (d) $\frac{2}{d_1 \times d_2}$ (d) decagon  (d) 22cm $\checkmark$ t are equal is a:  (d) cylinder  (d) $\pi d^2 h$ circle as the base of a  (d) $\pi r l'$ base radius 'r' is:  (d) $\pi r l'$ (d) $\pi r l'$
4- 5- 6- 7- 8- 9- 10-	(a) similar Area of a rhombit Area of a rhombit di. +d.  (a) $\frac{1}{2}$ A regular polygor (a) hexagon  The circumference (a) 20cm A rectangular pri (a) cube Th volume of a comparable (a) $\frac{1}{2}$ If $f$ is the height pyramid, then (a) $\frac{1}{2}$ The curved sure (a) $\frac{1}{2}$ The volume of (a) $\frac{1}{2}$ The volume of (a) $\frac{1}{2}$ The volume of (a) $\frac{1}{2}$ The magnitude (a) 4	(b) congruent us with diagonals with diagonals $\frac{d_1 \times d_2}{2}$ in having infinite r (b) octagon in the constant of the constant whose length (b) square incular base cyling (b) $\pi^{\text{th}}$ is the r its height is:  (b) $\sqrt{r^2 + h^2}$ race area of a constant (b) $2\pi r/r$ a sphere of diagram (b) $\frac{\pi}{4}$ D and b will be (b) unparalled (c) $\frac{\pi}{2}$ $\frac{\pi}$	(c) coplanar d, and d <sub>2</sub> is:    (c) 2  number of angles is:    (c) circle (c) 28cm breadth and height    (c) cone ider is:    (c) 2πrh adius of inscribed  (c) πr  one of height 'h' and    (c) πr  neter D is:    (c) perpendiculate  (c) 2  (c) perpendiculate  (c) 2  (c) perpendiculate  (c) 2  (c) perpendiculate  (c) 2	(d) non-coplanar  (d) $\frac{2}{d_s \times d_s}$ (d) decagon  (d) 22cm $\checkmark$ t are equal is a: (d) cylinder  (d) $\pi d^2 h$ circle as the base of a  (d) $\pi r /$ base radius 'r' is: (d) $\pi r /$
4- 5- 6- 7- 8- 9-	(a) similar $\checkmark$ Area of a rhombit $d_1+d_2$ (a) $d_2+d_3$ A regular polygod (a) hexagon  The circumference (a) 20cm  A rectangular price (a) 20cm  A rectangular price (a) $2\pi h^2$ If $f$ is the height pyramid, then (a) $\sqrt{f^2+f^2}$ The curved sure (a) $\pi^2f$ The volume of (a) $\frac{4}{3}\pi f^3$ If $ab=0$ , there (a) parallel The magnitude (a) 4  If $f$ and $f$ are un	(b) congruent us with diagonals with diagonals (b) $\frac{d_1 \times d_2}{2}$ in having infinite r (b) octagon ce of a circle of rate (b) 26cm (c) 26cm (d) 26cm (d) 26cm (d) 26cm (e) 26cm (e) 26cm (e) 26cm (f) 26cm (f) 26cm (f) 26cm (f) $\frac{1}{2}$ the rate area of a congruence of diameter (b) $\frac{\pi}{4}$ D <sup>2</sup> (c) and b will be (b) unparallel (c) $\frac{\pi}{4}$ of $2\mathbf{i} - 2\mathbf{i} - \mathbf{k}$ will vectors along the first setting the congruence of $\frac{\pi}{4}$ of $\frac{\pi}{$	(c) coplanar d, and d2 is:   (d) -d.   (e) 2  number of angles is:   (c) 28cm . breadth and heigh   (c) cone   (c) 2πh adius of inscribed  (c) 2πh adius of inscribed  (c) 4πD²  (c) perpendiculation  (c) 2  (c) perpendiculation  (c) 2  (c) 2  (c) 4πD²  (c) 4πD²  (c) 4πD²  (c) 4πD²	(d) non-coplanar  (d) 2/d, ×d,  (d) decagon  (d) 22cm / t are equal is a:  (d) cylinder  (d) $\pi d^2 h$ circle as the base of a  (d) $\pi r/$ base radius 'r' is:  (d) $\pi r/$
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Applied Mechanics Reviews ,1964

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Quantum Mechanical Techniques to Areas Outside of Quantum Mechanics. 2nd Edition Emmanuel Haven,Andrei

Khrennikov,2019-11-14 This book deals with applications of quantum mechanical techniques to areas outside of quantum

mechanics so called quantum like modeling Research in this area has grown over the last 15 years But even already more
than 50 years ago the interaction between Physics Nobelist Pauli and the psychologist Carl Jung in the 1950 s on seeking to

find analogous uses of the complementarity principle from quantum mechanics in psychology needs noting This book does NOT want to advance that society is quantum mechanical The macroscopic world is manifestly not quantum mechanical But this rules not out that one can use concepts and the mathematical apparatus from quantum physics in a macroscopic environment A mainstay ingredient of quantum mechanics is quantum probability and this tool has been proven to be useful in the mathematical modelling of decision making In the most basic experiment of quantum physics the double slit experiment it is known from the works of A Khrennikov that the law of total probability is violated It is now well documented that several decision making paradoxes in psychology and economics such as the Ellsberg paradox do exhibit this violation of the law of total probability When data is collected with experiments which test non rational decision making behaviour one can observe that such data often exhibits a complex non commutative structure which may be even more complex than if one considers the structure allied to the basic two slit experiment The community exploring quantum like models has tried to address how quantum probability can help in better explaining those paradoxes Research has now been published in very high standing journals on resolving some of the paradoxes with the mathematics of quantum physics The aim of this book is to collect the contributions of world's leading experts in quantum like modeling in decision making psychology cognition <u>Insurance Broker</u> Arthur Liebers,1957 economics and finance Catalogue of Scientific Papers Royal Society (Great Britain).1914 Catalogue of Scientific Papers (1800-1900): ser. 4, 1884-1900 Royal Society (Great Britain), 1914

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