	RK VISION ACADEMY	RK VIS NEET II CBSE P	ION ACAD IT – JEE FOUNDAT PRACTICE PAPER(20 (Mathematics)	EIVIY ION 124)
	Grade : X marks Chapter: A	II OI Set-1		Marks: 40 Time: 90
	minutes	SF	CTION A	
(\mathbf{T})	his section compri	ses of Multiple-choice	questions (MCO) of	1 mark each.)
Ì.	The area enclosed by the circle $x + y = 2$ is equal to			
2.	(A) 4π sq units	(B) $2\sqrt{2}\pi$ sq units $x^2 y^2$	(C) $4\pi^2$ sq units	(D) 2π sq units
	(A) $\pi^2 ab$	(B) πab (B) πab	(C) $\pi a^{2}b$	(D) πab ²
5.	The area of the regio	on bounded by the curve y =	$= x^2$ and the line $y = 16$	
4.	(A) 32 /3 The area of the regio	(B) 256/ 3 on bounded by the curve x =	(C) 64/ 3 = y 2 , y-axis and the line y	(D) $128/3$ y = 3 and y = 4 is
	(A) 37/3	(B) 38/3	(C) 73/3	(D) 3/ 37 sq. units
5. The area of the region bounded by the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$, x-axis and the curve $y = x^2 + x$.				the $x = 2$ and $x = 5$ is equal to
	(A)297 / 6 sq. units	(B)6 / 7 sq. units	(C)7 / 6 sq. units	(D)9 / 6 sq. units
0.	$\leq x \leq \frac{n}{2}$			
7.	(A) $\sqrt{2}$ sq units The area of the region	(B) $(\sqrt{2} + 1)_{sq}$ units on bounded by the curve x ²	(C) $(\sqrt{2} - 1)$ sq units = 4y and the straight line	(D) $(2\sqrt{2} - 1)_{sq}$ units x = 4y - 2 is
	(A) 3/8 sq units	(B) 5 /8 sq units	(C) $7/8$ sq units	(D) 9 /8 sq units
8.	The area of the region bounded by the curve $y = \sqrt{16 - x^2}$ and x-axis is			
9.	(A) 8 sq units Area of the region in $x^2 + y^2 = 32$ is	(B) 20πsq units a the first quadrant enclosed	(C) 16π sq units l by the x-axis, the line y =	(D) 256π sq units = x and the circle
10	(A) 16π sq units Area of the region be	(B) 4π sq units bounded by the curve y = cos	(C) 32π sq units sx between $x = 0$ and $x = 2$	(D) 24 sq unit π is
	(A) 2 sq units	(B) 4 sq units	(C) 3 sq units	(D) 1 sq units

SECTION B

(This section comprises of very short answer type-questions (VSA) of 2 marks each.) 11 Find the area of the region bounded by the curves y = 9x, y = 3x. 3.

- Find the area of the region bounded by the parabola $y^2 = 2px$, $x^2 = 2py$.
- 13 Find the area of the region bounded by the curve $y = x^3$ and y = x + 6 and x = 0

SECTION C

(This section comprises of short answer type questions (SA) of 3 marks each)

- Find the area of the region bounded by the curve $y^2 = 4x$, $x^2 = 4y$.
- 15 Find the area of the region included between $y^2 = 9x$ and y = x
- Find the area of the region enclosed by the parabola $x^2 = y$ and the line y = x + 2

SECTION D

(This section comprises of long answer-type questions (LA) of 5 marks each)

- Find the area of the region bounded by the curve $y^2 = 2x$ and $x^2 + y^2 = 4x$.
- Find the area bounded by the curve $y = \sin x$ between x = 0 and x = 2.
- 19 Find the area bounded by the curve $y^2=4x$ and x+y=3 and y axis.