	ACADEMY	CBSE	PRACTICE PAPER(202	24)	
			(Mathematics))	
	Grade : X		(Mathematics)	Marks: 40	
	marks				
	Chapter: A minutes	AUI Set-2		Time: 90	
			ECTION A		
(Tł	-	-	ce questions (MCQ) of 1 $y^2 = x$ and the straight line 2y	·	
1	-				
2.	(A) $4/3$ sq units The area of the regi	(A) 1 sq units on bounded by the curve	(A) $2/3$ sq units y = sinx between the ordinate	(A) 1/3 sq units s x = 0, x = $\pi/2$ and the x-axis is	
	(A) 2 sq units	(B) 4 sq units	(C) 3 sq units	(D) 1 sq units	
3.		$\frac{x^2}{25} + \frac{y^2}{16} =$	- 1		
	The area enclosed k (A)20 π^2	(B)20 π	$(C) 16\pi^2$	(D)25 π	
4.		ion bounded by the circle		$(D)25 \ h$	
	(A) 2π sq units	(B) π sq units	(C) 3π sq units	(D) 4π sq units	
5.		on bounded by the curve	y = x + 1 and the lines $x = 2$ a	and $x = 3$ is	
	(A) $7/2$ sq units	(A) 7 /2 sq units (B) 9/ 2 sq units ((C) $11/2$ sq units	(D) 13 /2 sq units	
6.	· · · ·		x = 2y + 3 and the y lines. y =	y = 1 and $y = -1$ is	
	(A) 4 sq units	(B) $3/2$ sq units	(C) 6 sq units	(D) 8 sq unit	
7.			· · ·	· / -	
8.					
9.					
10					
T	nis section compr		ECTION B wer type-questions (VS	A) of 2 marks each)	
11	-	curve $y = \sin x$ between (() 01 2 marks cach.)	
12	Find the area of the	region bounded by the cu	arve $av^2 = x^3$. the v-axis and	the lines	
	Find the area of the region bounded by the curve $ay^2 = x^3$, the y-axis and the lines $y = a$ and $y = 2$ Find the area enclosed by the curve $x = 3 \text{ cost}$, $y = 2 \text{ sint}$.				

SECTION C

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

- Find the area of the region bounded by the curves $x = at^2$ and y = 2at between the ordinate corresponding to t = 1 and t = 2
- Find the area of the region above the x-axis, included between the parabola $y^2 = ax$ and the circle $x^2 + y^2 = 2a$
- Find the area of a minor segment of the circle $x^2 + y^2 = a^2$ cut off by the line x = a/2

SECTION D

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

Find the area of the region above the x-axis, included between the parabola $y^2 = ax$ and the circle

 $x^{2} + y^{2} = 2a$

Draw a rough sketch of the given curve y = 1 + |x + 1|, x = -3, x = 3, y = 0 and find the area of the region bounded by them, using integration

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