TEST - PAPER (CBSE/NCERT)

APPLICATION OF INTEGRALS

SESSION -2024-25

CLASS - 12th

JOIN TODAY FOR ADVANCE CONCEPTS

ONLY IN ₹3000 PER MONTH

MRP: ₹ 100/- ONLY

ALSO, BASIC CONCEPTS CLASSES IN SUMMER VACATION Apr, May & Jun (Every Year)

DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

Time: 1 hr -: Application of integrals: - mm:

- Q. 1. Draw the sketch of the curve $y = \sqrt{x-1}$ in the intervel [1,5]. find the area under the curve and between the lines x=1 and x=5.
- Q. 2. Determine the area under the Cyrve $y = \sqrt{q^2 + \chi^2}$ included between the lines $\chi = 0$ and $\chi = a$.
- 4:3. Find the area of the region bounded by $y=\sqrt{2}$ and y=n.
- and the straight line retytate GWALLORE
- Q.s. Find the area bounded by the curve y=vz., x = 2y + 3 in the first quadrant and x-ancis.

DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

 G_{1} . 6. Draw a rough sketch of the region: $\{(x,y):y^{2} \leq 6ax \text{ and } x^{2}+y^{2} \leq 16a^{2}\}$. Also Find the area of the region sketched using method of integration.

Q.7. ampute the area bounded by the lines 2+2y=2, y-k=1 and 2x+y=7. GWALIORE

Q.8. Find the area bounded by the lines y=4x+5, y=5-x and 4y=x+5.

ond X-axis from n=0 to n=2TT

Q. 10. 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.

DPM CLASSES



DPM CLASSES

