VIDHYAM DDCET

Subject Code: 4300001   **Date: 2025-04-09**

Subject Name: ENGINEERING MATHEMATICS

Time Duration: 3.0 minutes   **Total Marks: 6**

Instructions:

1. Stable Internet Required: Ensure a good connection.
2. Use Allowed Devices: Only a laptop/PC; no mobile phones or smartwatches.
3. No Switching Tabs: Changing windows may lead to disqualification.
4. Answer all questions within the given time limit. No extra time will be provided.
5. Submit the exam before the deadline, as responses will not be accepted afterward.

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1. $O_2 + CO_2 \rightarrow H_2O$

   ○ Combination reaction ○ Exothermic reaction ◉ Both a and b ○ None of Above   2

2. $\int \log(\sin^2(x))\, dx$

   ◉ $\sin^3(x)/3$ ○ $\cos^3(x)/3$ ○ $\cot^3(x)/3$ ○ $\tan(x)/3$ 2

3. vector x_1 and y_1 are $\perp$ to each other then their dot product is

   ◉ 0 ○ 1 ○ -1 ○ None   2

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