PART 1 - PHYSICS

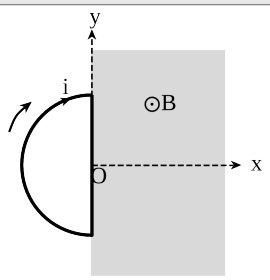
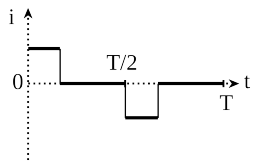
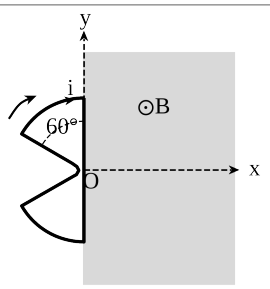
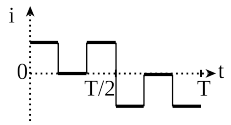
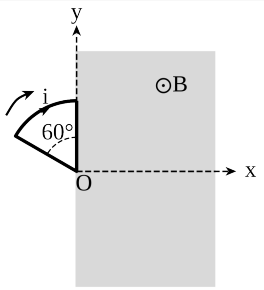
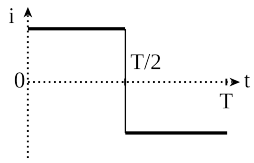
Topic : Electromagnetic induction

SECTION–1 : (Maximum Marks : 4)

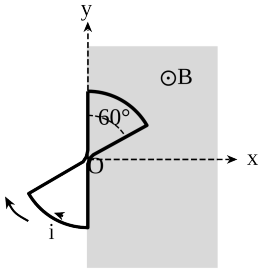
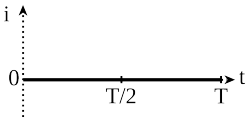
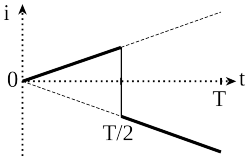
- This section contains **ONE** question.
- Each question has **TWO** lists: **List-I** and **List-II**.
- Four options are given representing matching of elements from List-I and List-II. **ONLY ONE** of these four options corresponds to a correct matching.
- For each question, choose the option corresponding to the correct answer.
- Answer to each question will be evaluated according to the following marking scheme :

Full Marks	: +4	If ONLY the correct option is chosen;
Zero Marks	: 0	If none of the options is chosen (i.e. the question is unanswered);
Negative Marks	: −1	In all other cases.

1. **List-I** contains four conducting loops lying in the XY plane, as shown in the figures. The loops are rotating about Z axis passing through the point O with time period T in clockwise direction. The region $x > 0$ contains a uniform magnetic field B in the +z direction. **List-II** contains the qualitative variation of the induced current i(t) for each of these loops. Choose the option which describes the correct match between the entries in **List-I** to those in **List-II**. [JEE Advanced 2026 Paper 1]

List-I		List-II	
P.		1.	
Q.		2.	
R.		3.	

Space for Rough Work

List-I		List-II	
S.		4.	
		5.	

(A) P → 5, Q → 4, R → 1, S → 3

(B) P → 3, Q → 2, R → 5, S → 4

(C) P → 3, Q → 2, R → 1, S → 4

(D) P → 5, Q → 1, R → 2, S → 3

Scan or tap for the full solution

Space for Rough Work

JEE ADVANCED ELECTROMAGNETIC INDUCTION — FARADAY'S LAWS OF INDUCTION — PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION–1																													
Ques.	1																												
Ans.	**C**																												