

SECTION-I (ii) : (Maximum Marks: 32)

- This section contains **EIGHT (08)** questions.
- Each question has **FOUR** options. **ONE OR MORE THAN ONE** of these four option(s) is (are) correct answer(s).
- For each question, choose the option(s) corresponding to (all) the correct answer(s).
- Answer to each question will be evaluated according to the following marking scheme:

Full Marks	: +4	If only (all) the correct option(s) is (are) chosen.
Partial Marks	: +3	If all the four options are correct but ONLY three options are chosen.
Partial Marks	: +2	If three or more options are correct but ONLY two options are chosen and both of which are correct.
Partial Marks	: +1	If two or more options are correct but ONLY one option is chosen and it is a correct option.
Zero Marks	: 0	If none of the options is chosen (i.e. the question is unanswered).
Negative Marks	: -1	In all other cases.

- **For Example :** If first, third and fourth are the **ONLY** three correct options for a question with second option being an incorrect option; selecting only all the three correct options will result in +4 marks. Selecting only two of the three correct options (e.g. the first and fourth options), without selecting any incorrect option (second option in this case), will result in +2 marks. Selecting only one of the three correct options (either first or third or fourth option), without selecting any incorrect option (second option in this case), will result in +1 marks. Selecting any incorrect option(s) (second option in this case), with or without selection of any correct option(s) will result in -1 marks.

- A particle moving along x-axis has velocity, $v = 3t^2 + 2e^{2t} + 2\cos 2t$. At $t = 0$, $x = 0$ which of the following is/are correct ? [x = displacement; a = acceleration]

(A) $x = t^3 + e^{2t} + \sin 2t - 1$	(B) $x = t^2 + e^{-2t} + \sin 2t$
(C) $a = 6t + 4e^{2t} - 4 \sin 2t$	(D) $a = 6t + e^{2t} - \sin 2t$
- A person, standing on the roof of 40m high tower, throws a ball vertically upwards with speed 10 m/s. Two seconds later, he throws another ball again in vertical direction. Both the balls hit the ground simultaneously.
 - The first ball hits the ground after 4 seconds.
 - The second ball was projected vertically downwards with speed 10 m/s.
 - The distance travelled by the first ball is 10 m greater than the distance travelled by the second ball.
 - Both balls hit the ground with same velocities.
- The position (x) of a particle moving in a straight line varies with time (t) as $x = \alpha t^2 - \beta t^3$. Select correct alternative(s)
 - The particle will return to its starting point after time $\frac{\alpha}{\beta}$.
 - The particle comes to rest after time $\frac{2\alpha}{3\beta}$.
 - The initial velocity = 0 & the initial acceleration $\neq 0$
 - The initial velocity $\neq 0$ & the initial acceleration $\neq 0$

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