

**PART (A) : PHYSICS**

**SECTION-1 : (Maximum Marks : 18)**

- This section contains **SIX (06)** questions.
- Each question has **FOUR** options. **ONLY ONE** of these four options is the correct answer.
- 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 : +3 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. A uniform thin rod of mass  $m$  and length  $R$  is placed normally on surface of earth as shown. The mass of earth is  $M$  and its radius is  $R$ . Then the magnitude of gravitational force exerted by earth on the rod is



- (A)  $\frac{GMm}{2R^2}$   
 (B)  $\frac{GMm}{4R^2}$   
 (C)  $\frac{4GMm}{9R^2}$   
 (D)  $\frac{GMm}{8R^2}$

1. (A)

$$F = \int_0^R \frac{GM \left( \frac{m}{R} \right) dx}{x^2} = \frac{GMm}{2R^2}$$



$$F = \int dF = \int dmE$$

2. A small sphere of mass  $m$  and radius  $r$  is placed inside a horizontal hollow cylinder of radius  $R$ . Now cylinder rotating with some angular acceleration which slowly increases from zero to certain value  $\alpha$ .

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