

# 13170

**21819**

**8 Hours / 100 Marks**

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
  - (2) Illustrate your answers with neat sketches wherever necessary.
  - (3) Figures to the right indicate full marks.
  - (4) Assume suitable data, if necessary.
  - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
  - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

- 1. Attempt any ONE of the following: **20****

  - a) Draw a dogs tail wagging for the study of wave principle.
  - b) Draw a swinging pendulum for timing slow in and slow out.

  
- 2. Attempt the following: **40****  
Draw a sketch using 3D animation face of baby smiling with wide open mouth and with two teeth visible.
  
- 3. Attempt any TWO of the following: **40****
  - a) Draw a girl jumping in happiness for the study of anticipation
  - b) Illustrate a car accident by using laws of motions.
  - c) Draw animation for a bouncing ball in 40 to 45 frames with reduction of height attained by ball with each bounce (Rubber).

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