

11122

3 Hours / 100 Marks

Seat No.

4	1	5	2	6	3		
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- Instructions –**
- (1) All Questions are *compulsory*.
 - (2) Answer each Section on separate answer sheet.
 - (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**SECTION-I****1. Attempt any NINE of the following:****18**

- a) A car starts from rest. It accelerates for 10 seconds at rate of 0.3m/s^2 . Determine final velocity.
- b) Define angular velocity. State relation between angular velocity and linear velocity.
- c) State Newton's second law of motion with mathematical equation.
- d) Define Ultrasonic waves and specify its frequency range.
- e) State principle of Liquid Penetrant Testing (LPT) method.
- f) Define reverberation of sound. Give Sabine's equation to find reverberation time.

Mechanical Technology Grade 12014 Exam Paper

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