

Sample Question Paper

Course Name : Mechanical Engineering Group

Course Code : AE/FE/ME/MH/ML/PG/PT/PS

Semester : Second

Subject Title : Applied Science (Physics)

Marks : 50

**17202**

Time: 2 Hour

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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. Preferably, write the answers in sequential order.

**Q.1 Attempt any NINE**

**18 Marks**

- a. State equations of angular motion. State meanings of symbols used in it.
- b. State Newton's third law of motion with suitable examples.
- c. A load is pulled 80m along the horizontal by a force of 800 N at  $45^\circ$  to the horizontal. Calculate work done.
- d. Define centrifugal force.
- e. Draw a circuit diagram for production of ultrasonic waves by piezoelectric method.
- f. State Joule's effect.
- g. What is thermoelectric series? Write Seebeck effect.
- h. State any two properties of photon.
- i. State necessary conditions to obtain photoelectric emission.
- j. State any two scientific applications of X-rays.
- k. Define X-rays.
- l. Define optical pumping.

**Q.2 Attempt any FOUR**

**16 Marks**

- a. Define kinetic energy. A vehicle of mass 80 kg is moving with 50 km/hr. Calculate kinetic energy.
- b. Define angle of projection, trajectory, time of flight, range.
- c. State properties of ultrasonic waves.
- d. State any four advantages of NDT methods.
- e. State principle, procedure and applications of ultrasonic testing.
- f. A train crosses a tunnel in 20 second. At the entry of the tunnel its velocity is 80 km/hr and at exit of tunnel it is 40km/hr. Find the length of tunnel.

# Msbte Sample Paper 17202

**Karin Nielsen-Saines**



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