

INDIAN ARMY

Syllabus For Written Exam

TEST - 01

SOL.TECH



ESWAR ARMY AND POLICE COACHING CENTRE SEKKAPATTY BATLAGUNDU DINDIGUL DT
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INDIAN ARMY SOL.TECH PHYSICS TEST -01

1. A source has a frequency of 103 Hz. The time period will be?

- a) 10^{-3} s b) 10^3 s **c) 10 s** d) 10^2 s

2. ----- is used to control the rate of nuclear reactions in the reactor?

- a) Moderator** b) Control rods
c) Thermal neutrons d) None of these

3. Hooke's states that?

- a) Stress is directly proportional to the strain**
b) Stress is inversely proportional to the strain
c) Stress is proportional to Young's modulus
d) Stress and strain are independent of each other

4. The bodies which are moving around the planets are called?

- a) **Satellites** b) Meteorites c) Asteroids d) Ozone layer

5. The inability of a body to change its state of rest by itself is called?

- a) **Inertia of rest** b) Inertia of motion
c) Inertia of direction d) Conductor

6. Pascal is the unit of?

- a) Power b) **Pressure** c) Force d) Force & Work

7. The work done by a string of simple pendulum during one complete oscillation is equal to?

- a) Kinetic energy of pendulum b) Potential energy of pendulum
c) **Zero** d) None of these

8. Value of escape velocity for earth is -----?

- a) **11.2 Km/s** b) 11.2 Mtr/h c) 9.8 Km/s d) 9.8 m/s

9. Huge, gaseous heavenly bodies which have their own heat and light are called?

- a) Earth b) Satellites c) Planets d) **Stars**

10. What is a Thermistor?

- a) Thermo – couple element b) Thermal insulation
c) **Miniature resistance** d) Thermal Relay

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