INDIAN ARMY

Syllabus For Written Exam

TEST-05

**SOL.TECH** 



ESWAR ARMY AND POLICE COACHING CENTRE SEKKAPATTY BATLAGUNDU DINDIGUL DT MOB: 9940719961 WHAT'S APP: 8526837318 YOUTUBE: ESWAR ARMY ACADEMY

# **INDIAN ARMY SOL.TECH PHYSICS TEST-05**

1. If the mass of a body and acceleration working on that are doubled, then force acting on it will become?

a) 4 times

b) 8 times

c) 12 times

d) 16 times

2. In desert Mirage is seen due to the process of?

a) Reflection

b) Refraction

c) Total internal reflection

d) Dispersion

3. In the following, the non - conductor of electricity is?

a) Graphite

b) Salt solution

c) Nitric acid

d) Pure water

4. If the radius of earth become double than its present value, while its mass remain same, the weight of an object of earth will become?

a) Twice

b) Thrice

c) Same

d) One fourth part

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- 5. A marble "A" is dropped vertically, another identical marble "B" is projected horizontally from the same point at the instant?

  a) A will reach the ground earlier than B
- b) B will reach the ground earlier than A
- c) Both A and B will reach the ground at the same time
- d) Nothing is certain
- 6. The kinetic energies of two bodies of same masses are in the ratio 1:4 the ratio of liner moment of these bodies is?
- a) 1:4 b) 1:2 c) 1:6 d) 1:8
- 7. Power of a lens is +10 Dioptre. Its focal length will be?
- a) 1 m b) 10 cm c) 20 cm d) 5 cm
- 8. A force of 100 Newton produces an acceleration of 5m/s<sup>2</sup> on a body. The mass of body is?
- a) 40 kg b) 10 kg c) 20 kg d) 5 kg
- 9. There are two columns below: Match them by selecting the correct answer from codes given below the columns?

### Column I (Name)

## Column II (Change of state)

- A. Melting 1. Solid to liquid
- B. Evaporation 2. Solid to gas
- C. Freezing 3. Liquid to gas
- D. Sublimation 4. Gas to solid
  - A B C D
- a. 2 3 4 1
- b. 4 2 1 3
- c. 4 1 2 3
- d. 1 4 3 2

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- 10. If you float in water with just your nose out, the average density of your body must be?
- a) Greater than that of the water

### b) Same as that of the water

- c) Less than that of the water
- d) None of the above

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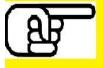
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