

# 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**

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  $5\text{m/s}^2$  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
<b>d.</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>2</b>

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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

Website : <http://www.eswaracademy.com/>

You Tube:

<https://www.youtube.com/channel/UCX4o91WuOR2Q7y9a1b2gZWA/videos>

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