

# INDIAN ARMY

Syllabus For Written Exam

## TEST - 04

## 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 -04

1. Although fog consists of fine drops of water, we cannot see clearly through it because?

- a) The light rays undergo total internal reflection in the drops
- b) Fine drops of water in fog polarise light
- c) The fine drops are opaque to light

**d) The drops scatter most of the light**

2. The spreading of scent in a room follows the law of?

- a) Diffusion**
- b) Convection
- c) Radiation
- d) Radioactivity

3. The weight of an object is greater on poles than on the equator because?

a) Equator is nearer to centre of earth than poles

**b) Poles are nearer to centre of earth than poles**

c) Equator is greater than poles

d) None of these

4. The S.I. formula of work is?

**a) Force x Distance**

b) Force/ Distance

c) Force x Time

d) None of these

5. The weight of a man in a lift freely falling under gravity?

a) Increase

b) Decrease

**c) Zero**

d) None of these

6. Nature of light could be explained by?

a) Wave nature

b) Particle nature

**c) Both**

d) None of the above

7. The temperature at which Fahrenheit and centigrade of focus will be?

**a) -40°C**

b) +40°C

c) -60°C

d) +60°C

8. If the radius of curvature is 20 cm. the distance of focus will be?

a) 20 cm

**b) 10 cm**

c) 15 cm

d) 30 cm

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9. What kind of image is formed on the retina of eye?

**a) Real and invert**

b) Virtual and Erect

c) Virtual and invert

d) None of these

10. The unit of work in M.K.S. is?

**a) Joule**

b) Erg

c) Calorie

d) Watt

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

You Tube:

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

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