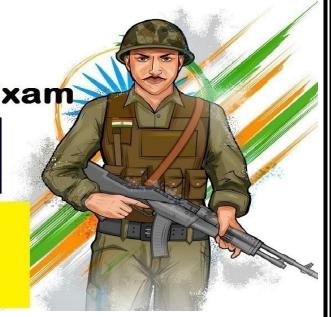
INDIAN ARMY

Syllabus For Written Exam

TEST-04

**SOL.TECH** 



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### **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

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3. The weight of an obj	ect is	greater on	poles than	on the equator	r because?
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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) -40ºC
- b) +40°C

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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

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