



- Q.6 S.I. unit of power is  
 a) volt                              b) Ampere  
 c) Watt                              d) Coulomb
- Q.7 Normal Reaction act at an angle \_\_\_\_\_  
 a) 30                                  b) 120  
 c) 90                                  d) 180
- Q.8 Optical fibre is based upon  
 a) Total internal reflection  
 b) Refraction  
 c) Reflection  
 d) None of above
- Q.9 Telescope is used for  
 a) Viewing small object  
 b) Measuring Pressure  
 c) Viewing far off object  
 d) None of these
- Q.10 Unit of frequency is  
 a) Sec                                  b) Meter  
 c) Hz                                  d) None of these

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Full form of FPS is \_\_\_\_\_
- Q.12 S.I unit of pressure is \_\_\_\_\_

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- Q.13 Formula for strain is \_\_\_\_\_
- Q.14 Good emitter are \_\_\_\_\_ absorber
- Q.15 Sum of kinetic energy and potential is \_\_\_\_\_
- Q.16 1 Horse power \_\_\_\_\_ watts
- Q.17 Ultrasonic have frequency greater than \_\_\_\_\_
- Q.18 Longitudinal wave motion is an example of \_\_\_\_\_ wave (sound/light)
- Q.19 Which metal have more permeability (Diamagnetic /Ferromagnetic)
- Q.20 Charge on an electron is \_\_\_\_\_ coulombs

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Define Kinetic energy. Derive its formula.
- Q.22 Explain conservation of angular momentum.
- Q.23 Define friction, on what factor friction depends.
- Q.24 Define Pyrometer. Give its range.
- Q.25 Give law of reflection and refraction.
- Q.26 Explain coulombs law.
- Q.27 Define capacitance and its units.
- Q.28 Explain ohms law and give its formula
- Q.29 Define magnetic field. Give its unit.
- Q.30 Calculate force on a moving charge in a magnetic field.

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