Section-A

Multiple Choice Questions (MCQ's)

Q.1: Choose the correct answer for each from the given options:

(i) Ibn-ul-Haitham contributed toward _____ Physics.
(a) Nuclear (b) Oceanographic (c) Optical (d) Thermal

(ii) One meter is equal to _____
(a) 10^{9}nm (b) 10^{-9}nm (c) 10^{-6}nm (d) 10^{-3}nm

(iii) Rate of displacement with respect to time is known as _____
(a) Speed (b) Velocity (c) Acceleration
(d) Uniform accleration

(iv) The unit of coefficient of Friction is _____
(a) Newton (b) Kilogram (c) Meter (d) None

(v) We use a _____ to disperse white light into different colours.
(a) Convex lense (b) Prism (c) convert mirror
(d) Concave mirror

(vi) The turning effect of a force about an axis is _____
(a) Force (b) Rotation (c) Torque (d) Momentum

(vii) Power is defined as _____
(a) Rate of change of position (b) Rate of change of force
(c) Time rate of doing work (d) None of these

(viii) Which of the follwing belongs to thid kind of lever.
(a) Pair of scissor (b) Forcep (c) Door (d) None

(ix) The number of prisms in periscopes is _____
(a) One (b) Two (c) Three (d) Four

(x) A motion which repeats itself in equal interwalls of time is called _____.
(a) Loudness (b) Amplitude (c) Time period (d) Frequency

(xi) 1hp = _____ watts.
(a) 746 (b) 644 (c) 580 (d) 640

(xii) If and are rectangular components of force ..... the tan = _____
(a) (b) (c) (d)

(xiii) Gravitational accleration acts on bodies vertically _____.
(a) upward (b) Downward (c) Inwards (d) None of these

(xiv) The relations between electric current and the magnetic field was dicoverd.
(a) Newton (b) Faraday (c) Fleming (d) Oersted

(xv) Arechimede's principle is applied to determined.
(a) Specific heat (b) Specific gravity (c) Specific resistance
(d) None of these

(xvi) In a fission process which partical causes a urinium -235 nucleus to split.
(a) Alpha (b) Gamma Rays (c) Neutron (d) Proton

(xvii) The pupil of eye control is _____.
(a) The focal length of eye (b) The range of accommodation of eye
(c) The amount of light reaching the eye (d) The distance of disinct vision

Section-B

Note: Answer any EIGHT of the following questions. Each question carries 05 marks.

Q.2: Explain the word Physics and define what is Physics?

Q.3: Describe briefly the main causes of Friction.

Q.4: What is the difference between real and virtual image?

Q.5: How many conditions of Equilibrium ? Briefly explain?

Q.6: What is Law of Graviation?

Q.7: How is Rainbow formed?

Q.8: To what kind of lever the following machines belong:
Door- Human arm- forceps- Sea saw- Upper and lower jaws of mouth.

Q.9: An empty truck weight 4000 N its engine can produce a maximum accceleratin of 1 ms^{-1}. If the truck is loaded with 2000 N. Find the maximum accleartin the engine can produce.

Q.10: Drive the equation :$2aS = V_f^2 - V_i^2$

Q.11: Define reflection of light.

Q.12: Define electric current and write its equation.

Q.13: What are the defect of vision?Explain only one.

Section-C

Note: Answer any TWO of the following questions. Each question carries 14(7+7) marks.

Q.14(a)How is the sound produce and what is the range of frequency of audiable sound?

(b) The potential difference between two terminals is about 220 volts and the current flow is 2 amperes, Find the resistance.

Q.15(a): Describe the anomalous expension of water.

(b) Find the acceleration of a body whose velocity increase from 11ms^{-1} to 33 ms^{-1} in 10 second.

Q.16: Write notes on any TWO of the following:
Mass of Earth Archimed's Principles Wave Motion