## Section-A

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

(i) Torque is a _____ quantity.

(a) Vector      (b) Scalar      (c) Positive      (d) Negative

(ii) According to quantum, photons are _____

(a) waves      (b) energy packets      (c) particles

(d) Eelctromagnetic waves

(iii) One joule is equal to .............

(a) 1 N-s      (b) 1 N-m      (c) 1 hp (d) 1 KW

(iv) The random motion of molecules in a fluid was first discovered by ..............

(a) Robert Boyle      (b) Robert Brown      (c) Newton      (d) Farady

(v) ........... geostationary communication satellite placed in equatorial orbit at 120o from one another, can cover the whole populated land of the world.

(a) Three      (b) Four      (c) Five (d) Six

(vi) - Rays are found to be in .............

(a) Eelctromagnetic waves       (b) Electrons

(c) Fastly moving neutron       (d) Fastly moving hellum nucleus

(vii) The value of "G" is ....................

(a) $6.67 \times 10^{\circ}$ Nm2/kg.       (b) $6.67 \times 10^{\circ}$ Nm./Kg.

(c) $6.67 \times 10^{\circ}$ Nm. /Kg.       (d) None of these

(viii) Elesticity of substance depends on its...................

(a) Temperature    (b) Size    (c) Nature    (d) Pressure

(ix) A cone resting on its side is in ................. equilibrium.

(a) Neutral       (b) Stable    (c) Unstable    (d) Dynamic

(x) Muslim scientist ............ was discovered the music.

(a) Al-Beruni       (b) Alkindi    (c) Al-Khawarzmi

(d) Nasir-ud-Din Tusi

(xi) The unit of capacity is known as .................

(a) Ohm       (b) Volt (c) Farad    (d) Coulomb

(xii) The standard meter is made of ...................

(a) Platinum and Copper    (b) Iron and Copper    (c) Iron and Irridum

(d) Platinum and Irridium

(xiii) The emission of rays from the unclues in called ...............

(a) Atomic dispersion       (b) Atomic process       (c) Radio-activity

(d) Chemical process

## Section-B (Short Answer)

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

Q.2: What are the contributions of Dr. Abdul Salam in the field of Physics?

Q.3: Define the branches of Physics Kinematics and dynamics.

Q.4: What is momentum? Define.

Q.5: What is the relation between centre of gravity and weight?

Q.6: Differentiate between kinetic energy and potential energy.

Q.7: Why it is dangerous to jump from a fast moving train? Explain.

Q.8: A stone is thrown vertically upward with a velocity of 20 ms-1. Find the maximum height reached by the stone and the total time of flight.

Q.9: Drive the equation: PV = nRT

Q.10: Write the uses fo radio-active isotopes.

Q.11: Describe the simple camera with the help of diagram.

Q.12: Explain why is more dangerous to burn steam than from bolling water although both are at the same temperature?

Q.13: A string 2m long is used to whiri a 200 gm stone in horizontal circle at a speed of 2m/s. Find the tension in string.

## Section-C (Descritptive Answer)

**Note: Answer any Two of the following questions.**

Q.14: What do you mean by viscocity? Define coefficient of viscocity? How does it depend on temperature?

Q.15 A bus is moving with velocity of 60 km/h-1 when breakes are applied it comes to rest after tow second. Find the distance travelled by it, before coming to rest .