PHYSICS (New)
9th (Fresh /Reappear)

For English Medium Students   PHYSICS (New)

Time Allowed:3 Hours

Note:There are THREE section in this paper i.e.section A.B and C.

Attempt Section A on the same paper and return it to the Superintendent within the given time.

NO marks will be awarded for Cutting Erasing or Overwritting. Marks of Identification will lead to UFM case . Mobile Phone etc are not allowed in the examination hall.

Time Allowed:15minutes   Section –A   Marks:12

Q-1 Write the correct option i.e A B C or D in the empty box provided opposite to each part.

i.The matter of our sun is in….state. A.Liquid B.Gas C.Solid D.Plasma   (D)

ii.Distance covered in unit time is called. A.Speed B.Velocity C.Acceleration D.Gravity   (A)

iii. Which o-f the given is not an example or the rotator. A.Motion of wheel of a car B.Motion of blades of a fan C.Motion of pendulum D.Motion of top (C)

iv.What do we call the pull of gravity on an object? A.Densiy B.Momentum C.Weight D.Mass   (C)

v.The formula for calculating the moment of force is.. A.Force X perpendicular distance B.Force X distance moved C. Force area D.Force x area.   (A)

Vi .When centripetal force ceases to act the centrifugal force A. become.. A.Maximum B.Minimum C.Zero D.None of these   (C)

vii.Force per unit area is called …A.Density B.Strain C.Pressure D.None of these.   (B)

Xi The unit of strain is …A.Nm B.Nm2 C.J D. None of these

X Which of the given produces more server bums ? A.Boilling water B.Sun rays C.Steam D.Hot air (C)

Xi Dark, rough surface are generally good for…A.Conduction B.Radiation C.Convection D.Reflection   (A)

xii.Which one is the best heat conduction? A.Copper B.Tin C.Soft iron D.None of these   (A)

Note: Time allowed for Section –b and Section –C is 2 Hours and 45 minutes.

Section –B   Marks:32

Q-II Answer any EIGHT parts .Each part carries Four marks.

   i.   .Why area is called a derived quantity?

   ii. .A ball thrown vertically upward with an initial speed of 5ms-1 what will its speed be when it returns to its starting point.(in the absence of air resistance.)

   iii. Mass of a body is 10kg. What is its weight?

   iv. Why are the long jump athletes made to jump in sand pits?

   v.   Why does a helicopter has a second rotor on its tail?

   vi. What will be the weight of o body if it is raised above the earth equal to its radius?

   vii. What happens to the kinetic energy of a bullet when it penetrates into a sand bag?

   viii. State and explain Hookes Low.

   ix. Temperature of an object is 250 k. Find its temperature in centiguade.

   x.   Why steam at 100oC produces more severe burns than boiling water at 100o C.

   xi. Why white clothes are preferred wearing in summer? Explain briefly.

Section – C   Marks:21

Note :Attempt any THREE questions .All questions carry equal marks.

Q.II (a) A car starts from rest and moves with uniform acceleration of 0.3/sec2 . After 30s . find the velocity of the car and distance covered.

(b) Describe advantages and disadvantages of Friction.

Q-IV (a) Describe Netwon s Law of Universal Gravitation.

(b) Stated and explain the law of conservation of energy with help of example.

Q.-V (a) Decribe how weather changes with atmospheric pressure.

(b) The temperature of a normal human body is 37oC .Find this temperature on the Fahrenheit scale.

Q-VI (a) o-5 Kg cupper needs 1950 J of heat to raise its temperature up to 10o C. Calculate the heat capacity of sample.

(b) Explain condution of heat . Descibe its three applications.