

Model Paper Physics 9th (Fresh)

Time Allowed: 3:00 Hours

Total Marks: 65

Roll No. (in Figures) _____ Superintendent Seal & Signature _____

(In words) _____ Serial No. of the Answer sheet _____

Section – “A”

Time allowed: 15 minutes

Marks: 12

There are THREE sections i.e. A, B, C. Attempt each section according to the given instructions.

Note: Attempt all parts of Section A, it must be returned to the superintendent after 15 minutes even if you have not attempted any question. Over writing / defacing/ cutting etc is prohibited in Section A and no credit will be given to such answer.

Q.1. Write the correct option i.e. A, B, C or D in the relevant boxes given in the front of each questions.

- i. Which of the following is not a derived quantity.
- A. Density B. Area C. Time D. Volume
- ii. What is the mass of a girl on the earth if her mass on the moon is 50 kg.
- A. 40 kg B. 60 kg C. 50 kg D. 70 kg
- iii. The instrument used to measure the internal diameter of the pipe is
- A. Micro Meter B. Vernier Caliper C. Cylender D. Balance
- iv. The slope of displacement time graph is called
- A. Acceleration B. Velocity
- B. Displacement D. Speed
- v. Momentum is the product of
- A. Mass & Velocity B. Mass & Speed
- C. Mass & Acceleration D. Mass & Force
- vi. The value of “g” at the centre of the earth is
- A. Maximum B. Zero
- C. 1/2 g D. 1/4 g
- vii. Watt is the unit of
- A. Force B. Power C. Energy D. Mass
- viii. Increase in pressure of a confined fluid is given by
- A. Newton’s Law B. Boyle’s Law
- C. Archimedes Law D. Pascal’s Law
- ix. The mathematical relation for strain is
- A. F / A B. $Y = \text{Stress} / \text{Strain}$ C. x/l D. $P F/A$
- x. 32° F is equal to
- A. 32° C B. 100° C C. 0° C D. 305° C
- xi. Which of the following is the best heat conductor ?
- A. Copper B. Tin C. Iron D. Plastic
- xii. Which of the following numbers shows one significant digit?
- A. 17 B. 6.0 C. 8 D. 1.0×10^2

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Time Allowed: 2:45 hours for Section B & C

Section – “B”

Marks: 32

Q.2. Attempt any eight questions. Each question carries four marks.

- (i) Describe any four branches of Physics.
- (ii) If object is stationary is its acceleration necessarily zero?
- (iii) A brick falls from Bab-e-Khyber 15m high. How much time it will take to reach the ground?
- (iv) When a tree is shaken, its fruit and leaves fall down why?
- (v) Why does a gun man jerk on firing a bullet?
- (vi) Name the seven SI base units of measurement.
- (vii) Define moment of force, on what factor it depends?
- (viii) What will be the weight of a body if it is raised above the earth equal to its radius?
- (ix) A ball of weight 100 N is moving on a frictionless surface with velocity of 10 m/s. Compute it's K.E?
- (x) State and explain Hook's Law.
- (xi) The temperature of a normal human body is 37°C. find this temperature on the Fahrenheit scale.

Section – “C”

Marks: 21

Note: Attempt any Three Questions.

- Q.3.** (a) Derive second equation of motion i.e. $S = vit + \frac{1}{2} at^2$ by graphical method. **(4+3)**
(b). A cyclist start from rest and moves with uniform acceleration of $.02m/s^2$ after 2 minutes, find the velocity of cyclist.
- Q.4.** (a) Define and Explain law of conservation of momentum with example. **(4+3)**
(b) What is the acceleration produced by a force of 10N exerted on an object of 3000g?
- Q.5.** (a) How the mass of earth can be determined with the help of law of universal gravitation. **(4+3)**
(b) An electric heater is heated at 250 W. Calculate the quantity of heat generated in 10 minutes.
- Q.6.** (a) Define and Explain Stress, Strain and young's modulus **(4+3)**
(b) Calculate the pressure at a depth 100m of water, take $g=10m/s^2$.