10th Class 2019

Physics	Group-I	Paper-II
Time: 15 Minutes	(Objective Type)	Max. Marks: 12

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- To measure the value of current flowing in a circuit, which device is used?
   (a) Galvanometer (b) Ammeter √
   (c) Voltmeter   (d) None of these

2- The brain of any computer system is:
   (a) Monitor   (b) Memory card
   (c) Floppy disc   (d) C.P.U √

3- To correct the defect of vision far-sightedness, which type of lens is used?
   (a) Converging √ (b) Diverging
   (c) Both   (d) None of these

4- The process by which electrons are emitted by a hot metal surface is known:
   (a) Boiling
   (b) Evaporation
   (c) Thermionic emission √
   (d) Conduction

5- When U-92 ejects a beta particle, how many protons will be in the remaining nucleus?
   (a) 93   (b) 89
   (c) 91 √   (d) 90

6- If the mass of the bob of the pendulum is increased by a factor of 3, the time period of the pendulum's motion will be:

(a) Increased by factor of two

(b) Remain unchanged ✓

(c) Decreased by factor of two

(d) Decreased by factor of four

7- The combined resistance of two identical resistors connected in series is 8 Ohm. Their combined resistance in parallel arrangement will be:

(a) $4\,\Omega$ (b) $2\,\Omega$ ✓

(c) $8\,\Omega$ (d) $12\,\Omega$

8- We can distinguish between a shrill and grave sound by its:

(a) Loudness   (b) Amplitude

(c) Area   (d) Pitch ✓

9- The turn ratio of a transformer is 10, it means:

(a) $I_S = 10\,I_P$ (b) $N_S = \dfrac{N_P}{10}$ ✓

(c) $V_S \dfrac{V_P}{10}$ (d) $N_S = 10\,N_P$

10- S.I unit of capacitance of a capacitor is:

(a) V   (b) A

(c) F ✓   (d) N

11- To get virtual image from a convex lens, the object is kept:

(a) On F   (b) Between F and 2F

(c) Between O and F ✓ (d) Beyond 2F

12- Typical value of the voltage and current used for thermionic emission from tungsten filament is:

(a) 6 V and 0.3 A ✓ (b) 12 V and 0.3 A

(c) 12 V and 3 A   (d) 6 V and 3 A