## NEET 2024 Physics Predicted Question Paper 1

Ques.1 A long solenoid has 800 turns per meter length of the solenoid. A current of 1.6 A flows through it. The magnetic induction at the end of the solenoid on its axis is:

- A. 16 × 10-4T
- B. 8 x 10 T
- C. 32 × 10-4 T
- D. 4 × 10-4 T

Ques.2 In an elliptical orbit under gravitational force, in general

- A. T ∝ r³
- B. T∝r
- C.  $T^3 \propto r^2$
- D.  $T^2 \propto r^3$

Ques.3 Which of the following circular rods (given radius r and length I) each made of the same material as whose ends are maintained at the same temperature will conduct most heat?

- A. r=2ro; l= 210
- B. r=2ro; l= 10
- C. r=ro; I= 10
- D. r=ro; I=240

Ques.4 Which of the following is not correct for SHM

- A.  $F \propto x$
- B.  $U \propto x^2$
- C.  $v \propto x$
- D. a ∝ x

Ques.5 Which of the following is used or is in forward bias?

- A. Photodiode
- B. Light emitting diode
- C. Zener diode
- D. P side connected to -ve terminal

Ques. 6 Which of the following is/are copper loss/losses in a transformer?

A. Hysteresis loss

<ul><li>B. Eddy current loss</li><li>C. Heat loss in the primary and second coils</li><li>D. Both (1) &amp; (2)</li></ul>
Ques.7 The ground state energy of an H-atom is 13.6eV. The energy needed to ionize H-atom from its second excited state is :
A. 1.51 eV B. 3.4 eV C. 13.6 eV D. 12.1 eV
Ques.8 Which of the following is used or is in forward bias?
<ul><li>A. Photodiode</li><li>B. Light emitting diode</li><li>C. Zener diode</li><li>D. P side connected to -ve terminal</li></ul>
Ques.9 During ß decay of a parent radioactive element, the daughter is with the parent.
A. Isotope B. Isobar C. Isotone D. Isomer
Ques.10 A capacitor is charged using a battery and E heat is lost in the process. Now a dielectric slab of K-2 is inserted with the battery connected. The new energy stored in the capacitor is?
A. 4E B. 2E C. E D. E/2