

Paper: PhysicsTotal Marks: 12Month Test: November

Obt. Marks: _____

Theme/Unit: 14 - 18Grand Total: 75

Objective:

ID: _____

Time: _____

Name: _____

class: 10th

Section: _____



Q. No. 1: encircle the correct answer:

1. 1 KWh is equal to:
 - a. 3.6MJ
 - b. 3.6KJ
 - c. $3.6J^{-1}$
 - d. 3.6 J
2. The unit of electric current is _____
 - a. Coulomb
 - b. Joule
 - c. Ampere
 - d. Watt
3. In DC motor, coil can rotate in magnetic field by an angle of _____
 - a. 90°
 - b. 60°
 - c. 45°
 - d. 30°
4. Step up transformer has:
 - a. $V_s > V_p$
 - b. $V_s < V_p$
 - c. $V_s = V_p$
 - d. $I_s = I_p$
5. The equation of Not operation is:
 - a. $X = A \cdot B$
 - b. $X = A + B$
 - c. $X = A - B$
 - d. $X = \bar{A}$
6. The cathode ray Oscilloscope consists of main parts:
 - a. Two
 - b. Three
 - c. Four
 - d. Five
7. Telephone system has _____ parts.
 - a. 2
 - b. 4
 - c. 5
 - d. 6
8. Fax machine is called:
 - a. Radio
 - b. Computer
 - c. Telephone
 - d. Telefacsimile machine
9. In ${}_{92}^{235}U$, 92 is the number of:
 - a. Protons
 - b. Neutrons
 - c. Protons and neutrons
 - d. Neutrons and electrons
10. Half life of hydrogen is:
 - a. 12.3 years
 - b. 5370 years
 - c. 30 years
 - d. 2. 85 years
11. Generally an atom is represented by the symbol of:
 - a. X
 - b. A_ZX
 - c. Z_AX
 - d. AX
12. Proton is about _____ times heavier than an electron.
 - a. 1836
 - b. 1936
 - c. 1839
 - d. 1939

Paper: PhysicsTotal Marks: 63Month Test: November

Obt. Marks: _____

Theme/Unit: 14 - 18Grand Total: 75

Subjective:

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Short Answers: /30

Q. No. 2:

- 1) Define ohmic and non-ohmic materials.
- 2) Differentiate b/w direct and alternating current?
- 3) Write two factors effecting induced e.m.f?
- 4) How many coils are used in a transformer? Write their names.
- 5) Write the component of C.R.O?
- 6) Define information?
- 7) What do you mean by software?
- 8) What is flash drive?
- 9) Define atom and write its basic particles?
- 10) Define fission reaction?
- 11) What is the difference b/w natural and artificial radioactivity?
- 12) Which is more reliable floppy disk or a hard disk?
- 13) Name two factors which can enhance thermionic emission?
- 14) State ohm's law?
- 15) Define current and its formula?

Qno:3

Long Questions:

- 1) a: what are the component of information technology? Write the function of each component. /6
 a: Carbon -14 has a half life of 5730 years. How long will it take for the quantity of Carbon-14 in a sample to drop to one-eighth of initial quantity. /5
- 2) a: Explain the working of different parts of Oscilloscope. /6
 b: A power station generator 500MW of electrical power which is fed to a transmission lines. What current would flow in the transmission line if the input voltage is 250KV? /5
- 3) Describe the parallel combination of the resistors? /6
 b: A current of 3mA is flowing through a wire for 1 minute. What is the charge flowing through the wire? /5