

# Home Assignment

Subject: Physics (General)

B.Sc 2<sup>nd</sup> Semester Old Course (Arrear)

Paper: 201

## **Read the Instructions carefully before submission**

1. The Assignment contains 20 numbers of Multiple Choice Questions (MCQs), each having one correct answer. Out of 20 you have to attempt only 11 numbers of questions.
  2. Please take your time and read each question carefully, because once you submit it you can't modify the answers.
  3. Students are directed to submit the assignment by any one of the following methods
    - (i) Copy the link and past in the browser to get the assignment  
(<https://forms.gle/YYJMeJrahbyZhBfU6>)
    - (ii) Send the scan copy of the assignment to the email id: [arrear2ndsemg@gmail.com](mailto:arrear2ndsemg@gmail.com) mentioning their Name, Roll Code and Roll No., Registration No.
  4. **Last date of submission is 08/08/2020**
- 

**Total Marks = 11**

1. Charge is conserved quantity
  - a. True
  - b. False
2. Electric current originates from which part of an atom?
  - a. Negatively charged electrons
  - b. Positively charged protons
  - c. None of the above
3. The resistance of the wire varies inversely as
  - a. Area of cross section
  - b. Resistivity
  - c. Length
4. Flow of electrical charge carriers is called
  - a. Current
  - b. Voltage
  - c. None of the above
5. The algebraic sum of all the currents entering and leaving a node must be equal to zero. This law is termed as
  - a. Kirchhoff's Current Law
  - b. Kirchhoff's Voltage Law

- c. None of the above
6. By increasing the temperature the resistance of a conductor
- a. Increases
  - b. Decreases
  - c. Remains same
7. S.I unit of electrical resistance is
- a. Ohm
  - b. Coulomb
  - c. None of the above
8. Charge of electron is
- a.  $1.60217662 \times 10^{-19}$  coulombs
  - b.  $1.60217662 \times 10^{19}$  coulombs
  - c. None of the above
9. Mass of an electron is
- a.  $9.109 \times 10^{-31}$  kilograms
  - b.  $9.109 \times 10^{31}$  kilograms
  - c. None of the above
10. S.I Unit of electric charge is
- a. Coulomb
  - b. Farad
  - c. None of the above
11. S.I unit of capacitance is
- a. Farad
  - b. Coulomb
  - c. None of the above
12. S.I unit of Current is
- a. Ampere
  - b. Coulomb
  - c. None of the above
13. S.I unit of inductance is
- a. Henry
  - b. Ampere
  - c. None of the above
14. S.I unit of magnetic field is
- a. Tesla
  - b. Volt
  - c. Second
15. The unit of emf is
- a. Volt
  - b. Joule

- c. Ampere
16. An electric motor converts
- a. Electric energy to mechanical energy
  - b. Heat energy to electrical energy
  - c. None of the above
17. A pair of equal and oppositely charged or magnetized poles separated by a distance is called
- a. Dipole
  - b. Monopole
  - c. None of the above
18. In current electricity the full form of AC is
- a. Alternating current
  - b. All current
  - c. None of the above
19. Can two magnetic lines of force intersect each other?
- a. Yes
  - b. No
20. Magnetic field exists around
- a. Moving charges
  - b. Iron
  - c. Copper

\*\*\*\*\*