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Time: 3 Hours

समय — तीन घंटा

**H4F**

D(H-II) PH(4)

Full Marks: 75

अधिकतम अंक — 75

**2021**

**INSTRUCTION**

Candidates are required to give their answer in their own words as far as practicable. Answer any six questions, selecting at least one from A, two from Group B and three questions from Group- C.

**Group - A**

1. Obtain the boundary conditions for electric field at the surface of separation between two dielectrics. Use these relations to analyse the refraction of electric lines of forces.
2. Define hysteresis loop. Derive expression for energy loss per cycle of magnetization.

**Group - B**

3. Describe growth and decay of current in CR circuit.
4. Give construction and action of Owen's bridge.
5. Explain series and parallel resonance circuits. Give expression for power in AC circuit.
6. Explain the principle of production of a rotating magnetic field by a single phase A.C. supply.

**Group - C**

7. Derive mass formula on the basis of liquid drop model.
8. Give a brief outline of Fermi's theory of beta decay.
9. Give construction and action of synchrocyclotron.
10. Describe the cascade theory of cosmic rays and its main conclusion.
11. What is a quark? Explain quark model of particle.
12. Write notes on any two :
  - (a) Neutrino and anti- neutrino.
  - (b) Difference between nuclear fission and nuclear fusion.
  - (c) Strangeness
  - (d) Chain reaction.

# Jp University Chapra Program Physics 2013

**Marcel A. Müller**



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