

M.Sc. DEGREE EXAMINATION, EVEN SEMESTER 2021
II Year III Semester
Nuclear Physics and Particle Physics

Max.marks :25

Answer any **FIVE** questions ($5 \times 5 = 25$) Marks

1. Explain the spin dependence of nuclear forces.
2. Describe the Q value of nuclear reactions.
3. Explain briefly the liquid drop model of nucleus.
4. Discuss the internal conversion during nuclear decay.
5. Give the details of leptons and hadrons.
6. Write an account of various conservation laws in nuclear reaction.
7. Briefly give a short note on the quark model of elementary particles