

B.Sc. DEGREE EXAMINATION, ODD SEMESTER 2020
II Year III Semester
Allied Physics-I

Max.marks :25

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

1. Discuss with, necessary theory, the compositions of two simple harmonic motions of equal time periods at right angles to each other. Mention the different cases.
2. Describe with necessary theory, how will you determine the rigidity modulus of a material of a thin rod using static torsion apparatus?
3. Describe with necessary theory, how will you determine the surface tension and interfacial S.T by drop weight method?
4. What are Ultrasonic waves? With a neat circuit explain the production of ultrasonic waves by piezoelectric method.
5. Derive the expression for field along the axis of circular coil carrying current.
6. Describe an experiment to compare the coefficient of viscosity of two given liquids.
7. What is potentiometer? How will you calibrate the low range voltmeter using potentiometer?