

Sessional Examination 2021

BSc 5th Semester

Subject: Mathematics (M)

Paper 504

Marks: 15, Time: 1 hour

3×5=15

Answer any three questions

1. What is moment of inertia? Find the moment of inertia of circular wire
 - (i) About a diameter,
 - (ii) About the axis through the centre 'O'.
2. Find the moment of inertia of the solid sphere about a diameter.
3. State and prove parallel axes theorem for moment of inertia.
4. Define impressed force and effective force. State and prove D'Alembert's principle.

