

2019

B.Sc.

1st Semester Examination

PHYSICS (General)

Paper—DSC 1A-P

Mechanics Lab

Full Marks : 20

Time : 3 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

- Perform any one experiment. 15
1. Measure height of a building using sextant.
 - (a) Theory 5
 - (b) Recording of data and calculations 8
 - (c) Results and discussions. 2
 2. Measure moment of inertia of a fly wheel.
 - (a) Theory 5
 - (b) Recording of data and calculations 8

[Turn Over]

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| (c) Results and discussions | 2 |
| 3. Determine Young's modulus of the material of a wire by optical lever method. | |
| (a) Theory | 5 |
| (b) Recording of data and calculations | 8 |
| (c) Results and discussions | 2 |
| 4. Determine rigidity modulus of the material of a wire by Maxwell's needle. | |
| (a) Theory | 5 |
| (b) Recording of data and calculations | 8 |
| (c) Results and discussions | 2 |
| 5. Determine 'g' by bar peadulum. | |
| (a) Theory | 5 |
| (b) Recording of data and calculations | 8 |
| (c) Results and discussions | 2 |
| 6. Determine 'g' by Kater Peadulum. | |
| (a) Theory | 5 |
| (b) Recording of data and calculations | 8 |
| (c) Results and discussions | 2 |

7. Study motion of a spring and determine spring constant (K).

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| (a) Theory | 5 |
| (b) Recording of data and calculations | 8 |
| (c) Results and discussions | 2 |

Distribution of Marks

Experiment	15 marks
Laboratory Note book	02 marks
Viva voce	03 marks
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Total	20 marks
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