



Daffodil International University

Department of Agricultural Science
Faculty of Health and Life Sciences
BSc. in Agricultural Science
Mid term Examination-Fall 2025

Course Code: 0851-1103

Level and Term: 1-2

Time: 1 hour and 30 minutes

Section: 252 All

Course Title: Farm Power and Machinery

Course Teacher Initials: MJA, DAR

Total Marks: 25

Splitting any answer is strictly prohibited

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| 1 Define an engine. Classify the internal combustion engine. Narrate the uses of engines in crop production. | 5 |
| 2 Compare between four stroke and two stroke engines on ten basis. | 5 |
| 3 Write down the working principle of four stroke diesel engine with appropriate diagram. | 5 |
| 4 Why cooling is important in IC engine? Draw the flow diagram of tractor cooling system. | 5 |
| 5 Calculate IHP, BHP, FHP and Compression ratio of 4 Stroke 4-cylinder 10x12 cm engine, having IMP 7kg per cm ² speed of engine 2000 rpm clearance volume of cylinders 70 cc and mechanical efficiency was 65%. Also find the type of fuel used by this engine. | 5 |