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# Daffodil International University

## 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**

| | | Marks |
|---|---|---|
| 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 |