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**School of Agriculture**  
**Bachelor of Science Honours in Agriculture**  
**Mid Term Examination - Nov 2023**

**Duration : 90 Minutes**  
**Max Marks : 50**

**Sem III - A1UA305B - Farm Machinery and Power**

General Instructions

*Answer to the specific question asked*

*Draw neat, labelled diagrams wherever necessary*

*Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Classify the sequence of events in a four-stroke cycle engine? K2 (2)
- 2) Define is the purpose of a clutch in a tractor's power transmission system. K1 (3)
- 3) Explain the process of cooling the tractor engine using a cooling system. K2 (4)
- 4) Summarize the How adjust the clutch pedal free play in a tractor? K2 (6)
- 5) Identify the demonstrate correct procedure for changing gears in a tractor's gearbox. K3 (6)
- 6) Construct the proper maintenance procedure for the cooling system in a tractor. K3 (9)
- 7) Categorize the advantages and disadvantages of different types of final drive systems in tractors. K4 (8)
- 8) Examine the final drive system for a tractor that optimizes power transmission and efficiency. K4 (12)

**OR**

Can you analyze the impact of soil conditions on the performance and power requirements of a tractor? K4 (12)