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B.Sc. Agriculture (2014 & Onwards) (Sem.-4)

FARM POWER & MACHINERY

Subject Code : BSAG-408 M.Code : 72760

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write short notes on :

- a) Belt Power
- b) Mechanical efficiency
- c) Timing gear
- d) Firing order
- e) Planter
- f) Dibbling
- g) Differential
- h) Power tiller
- Centre of resistance
- j) Tilt angle

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SECTION-B

- What are the scopes of farm mechanization in India?
- With a neat diagram describe the fuel supply system of a diesel engine.
- What is seed drill? Describe the process of calibration of seed drill.
- 5. Why a tractor needs a clutch? What is the principle of clutch?
- What are the different types of sprayers? Describe the working of knapsack type sprayer with the help of a neat sketch.

SECTION-C

- Explain the working of two stroke cycle engine with neat sketches. Compare the advantages and disadvantages of four stroke cycle engine and two stroke engines.
- A four bottom 40 cm M.B. plough has a working depth of 15 cm and draft of 1500 kg. It
 is working at a speed of 5 km/hr. with the field efficiency of 75 %. Find:
 - a) Unit draft
 - b) Drawbar power
 - c) Theoretical field capacity
 - d) Actual field capacity
- Describe the working principle of a combine. Name the important parts of a combine. Give grain flow diagram of a combine.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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