313360

12425 3 Hours / 70 Marks

| 1 | | | | |
|----------|--|------|--|--|
| Seat No. | | | | |

Instructions : (1) All Questions are *compulsory*.

- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.

1. Attempt any FIVE :

- (a) Define Renewable power.
- (b) Define operating cost.
- (c) State the function of braking system.
- (d) Define fixed cost.
- (e) Enumerate any two properties of fuel.
- (f) State the function of clutch in tractor.
- (g) Define Power Transmission Outlet. (PTO)

2. Attempt any THREE :

- (a) Describe various sources of farm power.
- (b) Differentiate between 2 stroke engine and 4 stroke engine.
- (c) Write note on various functions of Camshaft.
- (d) Summarize different characteristics of lubrication system.



Marks

10

12

P.T.O.

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| 3. | Attempt any THREE : | | | | |
|---------|---------------------|---|----|--|--|
| | (a) | Classify various types of tractors. | | | |
| | (b) | Write a note on hydraulic system of tractor. | | | |
| | (c) | Explain different tractors' power outlet. | | | |
| | (d) | Write in details classification of brakes. | | | |
| 4. Atte | | mpt any THREE : | 12 | | |
| | (a) | Describe various types of ignition system of tractor. | | | |
| | (b) | Describe various functions of hitch point and draw bar. | | | |
| | (c) | Illustrate in detail working principle of transmission system. | | | |
| | (d) | Explain working principle of braking system. | | | |
| | (e) | Illustrate types of tractor controls. | | | |
| 5. | Atte | mpt any TWO : | 12 | | |
| | (a) | Describe different components of lubrication system in tractor. | | | |
| | (b) | Illustrate different types of gear box used in tractors. | | | |
| | (c) | Illustrate with neat sketch water cooling system in details. | | | |
| 6. Atte | | tempt any TWO : | | | |
| | (a) | Identify various components of power transmission system. | | | |
| | (b) | Explain in details Air Cooling System with its working principle. | | | |
| | (c) | Explain different type of starting system in tractor. | | | |