

1482

Code : 15AT54A

Register
Number

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V Semester Diploma Examination, April/May-2019

FARM TRACTORS & CONSTRUCTION EQUIPMENTS

Time : 3 Hours]

[Max. Marks : 100

- Instruction :** (i) Answer any **six** questions from PART – A.
(ii) Answer any **seven** questions from PART – B.

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PART – A

(6 × 5 = 30)

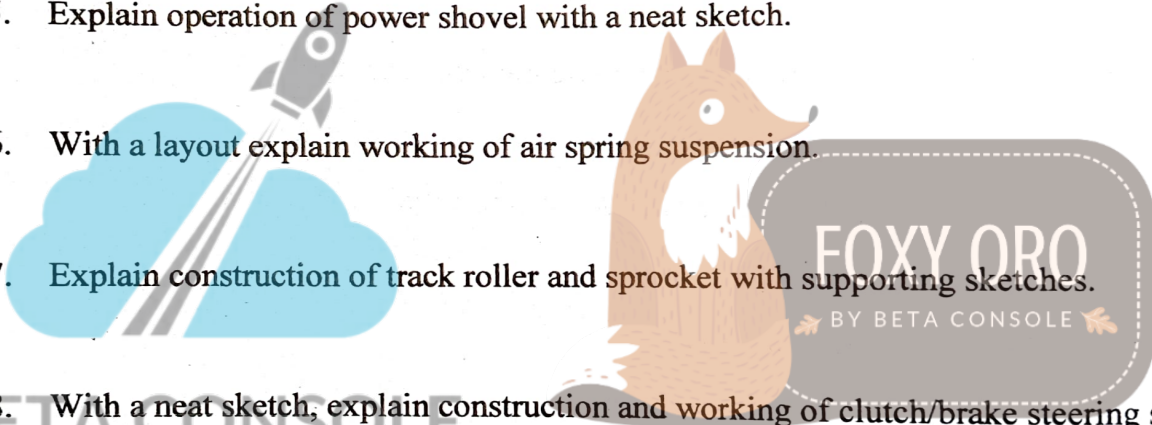
1. State detailed classification of tractors. 5
2. State the purpose of power take-off shafts. Mention different types. 5
3. Draw the sketch of agricultural tractor and label the parts. 5
4. Sketch and label the parts of thresher. 5
5. List the applications of Rollers. 5
6. Sketch and label the components of undercarriage of crawler tractor. 5
7. State the advantages of power steering. 5
8. Write a note on overhead cranes. 5
9. Draw the sketch of a tower crane and label its parts. 5

PART – B

(7 × 10 = 70)

10. With a sketch, explain the transmission drive PTO shaft. 10
11. With a neat sketch, explain construction and working of depth control mechanism. 10
12. With a neat sketch, explain construction of disc plough. 10
13. With a neat sketch, explain construction and working of sprayer. 10
14. Explain operation of motor grader with a neat sketch. 10
15. Explain operation of power shovel with a neat sketch. 10
16. With a layout explain working of air spring suspension. 10
17. Explain construction of track roller and sprocket with supporting sketches. 10
18. With a neat sketch, explain construction and working of clutch/brake steering system. 10
19. With a neat sketch, explain construction and working of calliper type disc brakes. 10

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