

April 2019*Time – Three hours
(Maximum Marks: 75)*

*(N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory.
Answer any FOUR questions from the remaining in each PART – A
and PART – B*

(2) Answer division (a) or division (b) of each question in PART – C.

*(3) Each question carries 2 marks in PART – A, 3 marks in Part – B
and 10 marks in PART – C.]*

PART – A

1. What is a track type tractor?
2. Where do we use a heavy wheeled tractor?
3. What is the function of a secondary tillage implement?
4. What do you mean by a three point linkage?
5. Name the types of harrows.
6. What is a duster?
7. Name any two reasons for clutch slip.
8. Name the different types of pumps used in sprayers.

PART – B

9. What are the basic principles of a hydraulic system?
10. What are the advantages of three point linkage?
11. Name the main components of a combine harvester.
12. Name the basic components of a sprayer.
13. Write a short note on spreader mechanism.
14. What are the maintenance to be done on a gear box?
15. Write a short note on three point hitching.
16. Name the different seed metering mechanisms.

[Turn over.....]

PART - C

17. (a) What are the safety rules to be followed in tractor operation?
(Or)
(b) Explain in detail about power tiller.
18. (a) With a neat sketch explain about disc plough.
(Or)
(b) Explain any two types of harrows with simple sketches.
19. (a) With a simple sketch explain combine harvester.
(Or)
(b) Write the advantages and disadvantage of combine harvester.
20. (a) Explain briefly about the different types of pumps and nozzles.
(Or)
(b) Explain about care and maintenance of a duster.
21. (a) Write about the troubleshooting of a tractor engine.
(Or)
(b) List the maintenance of grain drills and fertilizer distributor.
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