

- Q.26 Describe the dept control, position control and draft control. (CO1)
- Q.27 Write the five function of chassis Frame in Tractor. (CO2)
- Q.28 Describe special five selection criteria for tractor. (CO1)
- Q.29 Enlist various forces acting on tractor. (CO1)
- Q.30 Draw the layout of independent drive PTO shaft. (CO3)
- Q.31 Give the effects of under-inflating on tyre and its working. (CO3)
- Q.32 Describe concept of double clutch system. (CO2)
- Q.33 Explain working principle of hydraulic system. (CO2)
- Q.34 Describe the five qualities of steering system.(CO4)
- Q.35 Compare dual tyre system with tandemtyre system. (CO4)

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Describe the working of hydraulic control levers, other uses of hydraulic control system. (CO2)
- Q.37 Explain periodic maintenance procedure of tractor, faults and rectification. (CO4)
- Q.38 Explain working, limitation and applications of Fork Lift Truck OR Crane with figure. (CO4)

Note Course outcome/CO is for office use only

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6th Sem / Branch : Automobile Engg.
Sub. : Tractor & Special Purpose Vehicles Tractor & Earth Moving Machy.

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The connecting rods are generally made of _____ shaped cross-section. (CO1)
- a) G
 - b) I
 - c) H
 - d) All of the above
- Q.2 Wheel base tractor is. (CO3)
- a) Distance between the centers of the front tyres
 - b) Distance between the centers of the front and rear wheels
 - c) Distance between the centers of the rear tyres
 - d) All of the above
- Q.3 It is used to transmit power when two shaft are collinear. (CO1)
- a) Gera
 - b) Belt
 - c) Clutch
 - d) Chain
- Q.4 Which of the following is a device used on a tractor or stationary engine for maintaining nearly constant engine speed under varying loads? (CO2)
- a) Volatility of fuel
 - b) Governor
 - c) Pre ignition
 - d) Carburetor

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Name the hydraulic pump that is most widely used in tractors. (CO2)

Q.12 Differential lock is used to provide equal powers to both the wheels (True/False) (CO1)

Q.13 Name the hydraulic pump that is most widely used in tractors. (CO2)

Q.14 Write one function of crane. (CO2)

Q.15 Write one special application of Bulldozer. (CO2)

Q.16 Write full form of PTO. (CO2)

Q.17 Write the one special application of chassis of tractor. (CO1)

Q.18 Hydraulic oil is the fluid of hydraulic system in tractor. (True/False) (CO1)

Q.19 Motor grader is used to _____ the surface. (CO4)

Q.20 Tube is a bag to rubber with air. (True/False) (CO1)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain Tractor indicators, safe tractor operating procedure. (CO1)

Q.22 Compare dual tyre system with tandem tyre system. (Co3)

Q.23 Describe tractor tyre tread design terms along with sketch. (CO3)

Q.24 Explain the maintenance checks before starting the engine. (CO3)

Q.25 Describe Draw bar working application with sketch. (CO2)