

- Q.27 Write the 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 Describe the working of differential lock in Tractor.  
(CO1)
- Q.32 Explain the procedure of operator seat design.  
(CO2)
- Q.33 Describe the working of hydraulic control levers, other uses of hydraulic control system.  
(CO2)
- Q.34 How does the steering system actually work in tractors? Explain in simple manner.  
(CO4)
- Q.35 Describe the prominent makes of Indian tractors.  
(CO2)

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain working, limitation and applications of Fork Lift or Crane earth moving machinery with figure.  
(CO4)
- Q.37 Explain principle and Functions of hydraulic system, explain various components of hydraulic system with figure.  
(CO2)
- Q.38 Explain Tractor indicators, safe tractor operating procedure, maintenance checks before starting the tractor engine.  
(Co4)

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#### 6th Sem / Auto

**Subject:- Tractor & Special Purpose Vehicles / Tractor & Earth Moving Machinery.**

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Maximum torque in a tractor is generated at  
a) Rated rpm                      b) Less than rated rpm  
c) Rated hp                        d) maximum idling
- Q.2 Wheel base tractor is  
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 Heavy smoking in an engine in operation may be due to  
a) Overloading                      b) Mixtures  
c) Late injection                      d) all of these
- Q.4 Shortening of top link of tractor three-point hitch system  
a) Increases weight transfer on rear wheels  
b) Decreases weight transfer on rear wheels  
c) Increases penetration of implement  
d) Decreases penetration of implement

(300)

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