

- 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 Vechicles / Tractor & Earth Moving Machy.**

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 rate 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

## **SECTION-B**

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

- Q.11 What is draw bar. (CO1)

Q.12 Noisy Clutch is not the clutch fault (True/False) (CO1)

Q.13 Pump is used in tractor. (True/False) (CO2)

Q.14 Define of Motor Grader. (CO2)

Q.15 Write one application of Differential lock. (CO1)

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

Q.17 What is one prime work of Bulldozer. (CO2)

Q.18 Write the one special advantage of chassis of tractor. (CO1)

Q.19 Due Fork bent, Gear box will sure make a noise. (True/False) (CO1)

Q.20 Define oil leak. (CO1)

## **SECTION-C**

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

- Q.21 Describe the human factor in tractor design. (CO1)

Q.22 Describe wheel base, wheel tracks and ground clearance and Height of frame. (CO2)

Q.23 Describe tractor tubeless tyre, its care and maintenance. (CO3)

Q.24 Explain the periodic maintenance procedure of tractor, faults finding. (CO3)

Q.25 Explain bleeding of brakes in tractor. (CO1)

Q.26 Describe the depth control, position control and draft control. (CO1)