

- Q.25 Write any five function of hydraulic system. (CO2)
- Q.26 How do you maintain maintenance on a tractor? (CO5)
- Q.27 Classify earth moving machinery? (CO4)
- Q.28 Explain the concept of weight distribution. (CO1)
- Q.29 Write selection criteria of a tractor. (CO5)
- Q.30 Describe mechanism of 3 point linkage. (CO2)
- Q.31 Write the application of Excavator. (CO4)
- Q.32 Describe the working of differential lock. (CO3)
- Q.33 Draw layout of tractor transmission system. (CO1)
- Q.34 Draw the layout of final drive of a tractor. (CO2)
- Q.35 Describe the various faults occurs in tractor. (CO5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Describe various types of control system used in hydraulic system in detail? (CO2)
- Q.37 Explain layout, working and application of Tripper and crane. (CO4)
- Q.38 Explain various methods of attaching implements with tractor. (CO5)

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**6th Sem / Branch : Automobile Engineering
Sub.: 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 When the term ‘tractor’ did appeared first on record? (CO1)
- a) 1973
 - b) 1996
 - c) 1890
 - d) 1880
- Q.2 The complete path of power from the engine to the wheels is known as _____ (CO2)
- a) Muffler
 - b) Fender
 - c) Power train
 - d) Hitch system
- Q.3 A _____ is very useful equipment and it can be used for construction work like to clear the site of work, to make the land level, etc. (CO4)
- a) Scraper
 - b) Grader
 - c) Excavator
 - d) Bulldozer
- Q.4 A _____ is used to level the ground and spreads the loose material. (CO4)
- a) Excavator
 - b) Scraper
 - c) Grader
 - d) Tractor

- Q.5 An _____ is an oldest type of machine which removes earth. (CO4)
- a) Escalator
 - b) Excavator
 - c) Elevator
 - d) Bulldozer
- Q.6 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) Carburettor
- Q.7 The device for engaging and disengaging the power shaft from the gearbox is known as (CO1)
- a) Shaft
 - b) Gear
 - c) Clutch
 - d) Circuit
- Q.8 Differential lock in tractor is used to improve (CO3)
- a) Lateral stability
 - b) Braking performance
 - c) Hydraulic lift
 - d) Traction of a wheel
- Q.9 Which of the following is not a tractor drawn tillage tool? (CO1)
- a) Cultivator
 - b) Augar plough
 - c) Harrow
 - d) Plank
- Q.10 The size of the bulldozer is indicated by the dimension of its _____ (CO4)
- a) Site
 - b) Tyre
 - c) Engine
 - d) Blades

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SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Hydraulic systems are slower in operation. (True/False) (CO2)
- Q.12 Define special purpose vehicle. (CO4)
- Q.13 What do you mean by tractor stability? (CO1)
- Q.14 Define rolling resistance. (CO1)
- Q.15 What are flipper in case of tyre? (CO3)
- Q.16 Extra low pressure tyres are used in tractor. This statement is _____ (True/False) (CO3)
- Q.17 Which type of air cleaner is used in tractor? (CO2)
- Q.18 Write definition of engine capacity. (CO1)
- Q.19 Internally expanding or externally _____ brake system is used in tractors. (CO1)
- Q.20 In order to absorb shocks _____ are provided under operator's seat. (CO1)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Enlist five basics trends in tractor design. (CO1)
- Q.22 Explain double clutch system. (CO2)
- Q.23 Explain the factors which affect tyre life. (CO3)
- Q.24 Explain different types to transmission boxes used in tractors. (CO5)

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