

- Q.25 Enlist various control system in hydraulic system, explain any one. (CO-2)
- Q.26 Enumerate five applications of tractor. (CO-1)
- Q.27 Write the five function of Chassis Frame in tractor. (CO-2)
- Q.28 Explain the Chassisless and Tractor with chassis. (CO-1)
- Q.29 Describe the five qualities of steering system. (CO-4)
- Q.30 Draw the layout of tractor hydraulic system and describe the working of each component. (CO-2)
- Q.31 Compare dual tyre system with tandem tyre system. (CO-4)
- Q.32 Describe the working of Draw Bar with figure. (CO-2)
- Q.33 Describe the working of belt Pulley drive with figure. (CO-2)
- Q.34 Describe the working of 3 point linkage system and its application. (CO-4)
- Q.35 Describe the working of Power Take off shaft with figure. (CO-2)

Section-D

- Note:** Long answer Questions. Attempt any two Questions out of three Questions. (2x10=20)
- Q.36 Describe the various components of hydraulic system and their functions with figure. (CO-2)
- Q.37 Explain periodic maintenance procedure of tractor, faults and rectification. (CO-4,5)
- Q.38 Explain working and applications of Bull-Dozer OR Crane with figure. (CO-4)

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6th Sem,

Branch : Automobile Engineering

Subject : Tractor & Special Purpose Vehicle/Tractor & Earth Moving Machg

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Heavy smoking in an engine in operation may be due to (CO1)
- a) Overloading b) Mixtures
- c) Late injection d) All of these
- Q.2 IN four stroke engine there is one power stroke for every _____ revolutions of the cranks shaft (CO1)
- a) 1 b) 2
- c) 3 d) 4
- Q.3 It is used to transmit power when two shaft are collinear
- a) Gear 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?
- a) Volatility of fuel b) Governor
- c) Pre-ignition d) Carburetor
- Q.5 Which of the following types of internal combustion

engine is generally used as portable engine for pumping and electricity generation?

- a) Spark ignition
- b) Stationary
- c) Vertical single cylinder
- d) all of these

Q.6 The violent noises heard in an engine during the process of combustion after the piston has passed over the top dead center is known as?

- a) Stationary b) Spark ignition
- c) Detonation d) All of these

Q.7 Differential lock in tractor is used to improve

- a) Lateral stability b) Braking performance
- c) Hydraulic lift d) Traction of a wheel

Q.8 Choke in a I.C. engine is used to control

- a) Camshaft speed
- b) Specific fuel consumption
- c) Air fuel mixture
- d) Crankshaft speed

Q.9 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

Q.10 In tractor engine the complete path of power from the engine to the wheel is called

- a) Power train b) Power wheel
- c) Power cycle d) None of these

Section B

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

- Q.11 Write full form of PTO. (CO-2)
- Q.12 Hydraulic oil is the life of hydraulic system in tractor. (True/False) (CO-1)
- Q.13 Write one function of tractor. (CO-4)
- Q.14 Write one application of rear wheel of tractor. (CO-2)
- Q.15 Write one Indian tractor manufacturing company. (CO-2)
- Q.16 The function of type to absorb the shocks. (True/False) (CO-1)
- Q.17 Tube is a bag of rubber with air. (True/False)(CO-1)
- Q.18 What is wheel drum. (CO-1)
- Q.19 Write two advantages of Differential lock.(CO-1)
- Q.20 What is Repair? (CO-1)

Section-C

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

- Q.21 Identify five faults in tractor. (CO-5)
- Q.22 Make a list of main tractor assemblies. (CO-1)
- Q.23 Describe tractor tyre tread design terms along with sketch. (CO-3)
- Q.24 Describe specification of tyre with suitable example. (CO-3)