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| 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) Auger 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 basic 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 of transmission boxes used in tractors. (CO5)

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