

- Q.5 What are the traction aids
 a) Cage wheel b) Chain
 c) Dual wheel d) All of these
- Q.6 The power required to run the engine at any given speed without production of useful work is called
 a) Drawbar power b) Indicated power
 c) PTO power d) Friction power
- Q.7 Weight transfer of tractor is directly affected by
 a) Pull b) Hitch height
 c) center of gravity d) All of these
- Q.8 The gear train which provides the different speeds to drive the wheels, while moving on turn is called as
 a) Differential b) Bull gear
 c) Differential lock d) Main gear box
- Q.9 Ballasting in front tyre of tractor is done for
 a) Increasing stability b) Decreasing load
 c) Increasing traction d) All of these
- Q.10 The force required in the direction of travel to overcome the resistance of motion
 a) Traction b) Rolling resistance
 c) Tractive efficiency d) None of these

SECTION-B

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

- Q.11 To compensate wearing of clutch friction lining _____ is done.

- Q.12 ASAE stands for _____
- Q.13 Define tractor.
- Q.14 Define depreciation.
- Q.15 _____ device used to engage and disengage the engine power to the gear box.
- Q.16 Enlist control gauges of tractor.
- Q.17 Enlist the sources of farm power.
- Q.18 Wheel slip.
- Q.18 Write functions of drawbar.
- Q.20 _____ acts as buffer between the vehicle and the road.

SECTION-C

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

- Q.21 What are the factors to be considered for right selection of a tractor?
- Q.22 Describe the various causes of tyre wear.
- Q.23 Enlist different types of steering gearboxes.
- Q.24 What is the basic principle of hydraulic system?
- Q.25 Names of major testing and evaluation centers in India for Agricultural Machinery.
- Q.26 List of various control system of tractor along with their function.
- Q.27 Explain the working of dual plate clutch system used in tractor.