

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain the functions of major assemblies of tractor in detail.
- Q.4 Describe working of different types of power take off (P.T.O) Shaft..
- Q.5 Describe mechanism of 3-point linkage or hitch system integral with neat diagram.
- Q.6 Explain various methods of attaching implements with tractor.
- Q.7 Write short note on any two parts.
- i) Concept of weight distribution.
 - ii) Hydraulic Control lever.
 - iii) Selection Criteria of tractor.

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6th Sem. / Automobile Engg.

Subject : Tractor & Special Purpose Vehicles / TEMM

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Define special purpose vehicle.
 - b) Classify tractor according to horse power.
 - c) What is the full form of T.C.U.?
 - d) What do you mean by tractor stability.
 - e) What do you mean by final drive?
 - f) Define wheel base.
 - g) Write the specification of wheel used in tractor.
 - h) Name any two components of hydraulic system?

- i) Define wet clutch.
- j) What is the use of crane?
- k) Name any two manufacturer of tractor situated in Haryana.
- l) Write definition of engine capacity.
- m) What is the function of differential?
- n) Define parallel pull.
- o) Define implement.
- p) Write the function of power take off shaft.
- q) Which type of air cleaner is used in tractor?
- r) Extra low pressure tyres are used in tractor. This statement is _____ (True or False)

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Describe the types of engine used in tractor.
 - ii) Describe various applications of tractor.
 - iii) Explain rolling resistance. Write its mathematical relation.

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- iv) Describe the need of reduction gear mechanism.
- v) Draw layout of tractor transmission system.
- vi) Draw fig. of fixed and pivoted type draw bar.
- vii) Describe working of single plate clutch system.
- viii) Classify tractor tyres on different basis.
- ix) Describe the effect of over inflation of tyre.
- x) Describe the working of differential lock.
- xi) Explain the working of double acting hydraulic cylinder.
- xii) Describe tendum tyre arrangement in tractor.
- xiii) Write the applications of bull dozer.
- xiv) Describe the various faults occurs in tractor.
- xv) Describe the working of pressure relief valve.

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