

- Q.13 Why are universal joints necessary in a vehicle?
- Q.14 What are the advantages of synchromesh transmission?
- Q.15 What is a torque converter? How does it work?
- Q.16 Why a slip is joint necessary to be used with propeller shaft?
- Q.17 Why is the tyre tread? Why is retreading done?
- Q.18 What do you understand by tubeless tyre? Write its advantages.

SECTION-C

Note: Long answer questions. Attempt any one questions out of two questions. (1x10=10)

- Q.19 Explain the constructional features and working of a multi plate clutch.
- Q.20 With the help of a neat sketch, describe the construction and working of an overdrive.

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DVOC (Level 4 GV 07)
Trade Automobile Servicing
Subject : Name Motor Vehicle Technology

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions.
(10x1=10)

- Q.1 In a four wheel drive the number of gear boxes is
- 1
 - 2
 - 4
 - One gear box with more gears
- Q.2 Which one of the following is mounted between the engine and gear box?
- Propeller shaft
 - Differential gear
 - Reduction gear
 - Clutch
- Q.3 Connecting rod is attached to the piston by the
- Rod cap
 - Piston pin
 - Cap bolt
 - Lower cap
- Q.4 The component of torque converter that allows multiplication of torque is the

- a) Turbine b) Impeller
 - c) Pump d) Stator
- Q.5 Tread distortion is least on
- a) Radial ply tyres b) Cross ply tyres
 - c) Gross ply belted tyres
 - d) None of these
- Q.6 In which of the gearbox sun and planet gear set is used?
- a) Constant-mesh gearbox
 - b) Sliding mesh gearbox
 - c) Synchromesh gearbox
 - d) Epicyclical gearbox
- Q.7 Where is the overdrive located?
- a) Between transmission and engine
 - b) Between transmission and rear axle
 - c) Between transmission and propeller shaft
 - d) Between transmission and differential
- Q.8 Where is the differential located?
- a) Between transmission and rear axle
 - b) Between engine and transmission
 - c) Between two propeller shaft
 - d) Between steering wheel and steering column

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- Q.9 The axle shaft of a semi floating rear axle is subjected to
- a) Axial thrust only
 - b) Axial thrust and bending stress.
 - c) Torsional stress only
 - d) Bending, torsional stresses and end thrust
- Q.10 What does the 'ply rating' refer to ?
- a) Aspect ratio
 - b) Rated strength
 - c) Recommended inflation pressure
 - d) The actual number of plies

SECTION-B

Note: Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

- Q.11 Write a short note on "Rear engine-rear wheel drive."
- Q.12 What are the functions of the clutch.

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