

### SECTION-D

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

- Q.19 Describe concept of petrol injection and explain working of MPFI system.
- Q.20 Give the constructional details of a single plate clutch and describe it's working.

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**Level 5,1st Sem. / DVOG (Auto. Servicing, AMT)**

**Subject : Two & Three wheeler**

Time : 2 Hrs.

M.M. : 50

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (5x1=5)

- Q.1 In a two - stroke engine , the working cycle completes in two revolutions of the crankshaft.
- a) True                      b) False
- Q.2 Diesel engine can work on very lean air fuel ratio of the order of 30:1. A petrol engine can also work on such a lean ratio provided.
- a) It is properly designed
- b) Best quality fuel is used
- c) Cannot work as it is impossible
- d) flywheel size is proper
- Q.3 Which of the following is the need of the gearbox?

(40)

(4)

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(1)

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- a) To vary the speed of the vehicle
- b) To vary the torque of the vehicle
- c) To vary the power of the vehicle
- d) To vary the acceleration of the vehicle

Q.4 Two general types of tyres are

- a) Tube type and tubeless
- b) Solid and tubeless
- c) Air and pneumatic
- d) Split rim and drop centre

Q.5 A delivery van falls under the category of which type of vehicles.

- a) Heavy passenger vehicles
- b) Light passenger vehicles
- c) Heavy goods vehicles
- d) Light goods vehicles

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (5x1=5)

Q.6 What is scavenging?

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Q.7 Write the function of Carburetor

Q.8 Where the multiple clutches are used?

Q.9 Give one advantage of disc brake over drum brake.

Q.10 Write the material of tyre.

### SECTION-C

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

Q.11 Draw an actual valve-timing diagram of 4 stroke diesel engine.

Q.12 Explain two-stroke diesel engine

Q.13 Illustrate the working of sliding mesh gearbox.

Q.14 Explain magneto ignition system.

Q.15 What are the requirements of good braking system.

Q.16 Show the arrangement of front suspension system and its working.

Q.17 Explain construction and working of disc brake.

Q.18 Explain recent developments in automobile industry in India.

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