



10/A/C

**DRIVER-CUM - MECHANIC (LIGHT MOTOR VEHICLE)
(THEORY)****Time : 3 Hours****Marks : 30****Note: Attempt FIVE Questions in all. Question No.1 is compulsory. All questions carry equal marks.**

1. (A) Fill in the blanks:
 - (i) Compression ratio in Petrol engines varies fromto.....
 - (ii) Spark plug and Carburetor are fitted in.....
 - (iii) Exhaust valve is opened duringstroke of a 4 stroke cycle engine.
- (B) State TRUE or FALSE
 - (i) in a 2-stroke engine, valves are used.
 - (ii) Radiator is used in air-cooled engine.
 - (iii) Wheel cylinder and Master Cylinder are main parts of Hydraulic Brake system.
2. (a) What are the duties of a driver when his vehicle meets with an accident?
(b) What are the maintenance points of engine cooling system?
3. (a) Name at least ten essential tools required with the light motor vehicle for running maintenance at worksite.
(b) Write important maintenance steps to be performed during halt of the day's work of a vehicle.
4. (a) What are the precautions to be taken at the time of driving on Highway and during night?
(b) What are the precautions to be taken while driving over narrow bridges?
5. Write short notes on:-
(a) Radiator (b) Alternator (c) Hand Brake
6. (a) Explain how to change engine oil.
(b) Why should engine oil be changed periodically?
7. What are the causes of black and blue smoke in Exhaust? How to rectify the defects?
