

119/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. The location of Thermostat valve in cooling system is :
(A) at engine inlet from radiator (B) at engine outlet to radiator
(C) between radiator and water pump (D) between water pump and engine
2. The viscosity of multigrade oil is determined at :
(A) 0°F (B) 100°F
(C) 0°C (D) 100°C
3. The rotor type oil pump has :
(A) an inner rotor with a lobe less than the outer rotor
(B) an outer rotor with a lobe less than the inner rotor
(C) an inner rotor with a lobe more than the outer rotor
(D) two rotor with same number of lobes
4. Theoretically the inlet valve closes at BDC during suction stroke. Practically the inlet valve remains open a few more degrees of crank shaft rotation after BDC. The purpose of this is to :
(A) Reducing frictional power (B) Increase valve overlapping period
(C) Reduce compression pressure (D) Increase volumetric efficiency
5. Catalytic converter is associated with :
(A) automatic transmission system (B) engine intake system
(C) emission control system (D) vehicle braking system
6. Which of the following is not a part of primary circuit of ignition system?
(A) Battery (B) CB points
(C) Ignition coils thick wire winding (D) Spark plug
7. Insufficient clutch free pedal play causes :
(A) Difficulty in gear shifting (B) Dragging of clutch
(C) Clutch slipping (D) Clutch spinning

8. Double helical gears are known as :
- (A) Herring bone gear (B) Spur gear
(C) Bevel gear (D) Spiral gear
9. Which of the following device can bring two gears rotating at different speeds to the same speed for smooth gear shifting?
- (A) Throw out bearing (B) Synchronizer
(C) Idler gear (D) Inter locking mechanism
10. The type of lubrication system suitable for racing cars is :
- (A) wet sump lubrication system (B) splash lubrication system
(C) dry sump lubrication system (D) petrol lubrication system
11. If the lock to lock steering wheel rotation is four turns and the front wheel movement is 60 degrees, what is the steering ratio?
- (A) 15:1 (B) 18:1
(C) 24:1 (D) 21:1
12. The effect of carbon deposits on the cylinder head inside the combustion chamber is :
- (A) increased delay period
(B) increased fuel economy
(C) reduced compression ratio and pre-ignition
(D) increased compression ratio and pre-ignition
13. Which among the following maintains a constant level of petrol in float chamber?
- (A) Petrol main jet (B) Float and needle valve
(C) Float and throttle valve (D) Choke valve
14. The time duration, given in degrees of distributor rotation that the CB points remain closed between successive opening is :
- (A) Dwell (B) Camber angle
(C) Included angle (D) Overlap period
15. The engine power transfer mechanism that combines a transmission assembly and differential assembly in a single unit is known as :
- (A) multi axle mechanism (B) free wheel mechanism
(C) transfer case (D) trans axle mechanism