

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. Summer 2018 - 19 Examination

Semester: 6**Subject Code: 03102351****Subject Name: Vehicle Maintenance and Garage Practice****Date: 14/05/2019****Time: 10:30am To 01:00pm****Total Marks: 60****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Draw neat and clean diagram.
4. Start new question on new page.

Q.1 Objective Type Questions**(15)**

1. Full form of ABS is _____
2. Full form of ARAI is _____
3. Full form of RWD is _____
4. Full form of ECU is _____
5. Full form of SAE is _____
6. The metal used for the brake drum is cast iron.(True/False)
7. Camber angle plus king pin inclination angle is called the toe out.(True/False)
8. Weight can be attached to wheel rim to correct wheel balance.(True/False)
9. The most widely used brakes are operated by vacuum.(True/False)
10. The inward tilt of the king pin is called King Pin Inclination.(True/False)
11. Piston compression rings are manufactured by
(A) Aluminum (B) Cast iron (C) Steel (D) Bronze
12. Braking is produced by the frictional effect between the brake drum and the
(A) Wheel studs (B) Wheel rim (C) Brake shoes (D) Wheel cylinder pistons
13. Clutch noises are usually most noticeable when the engine is
(A) Being started (B) Decelerating (C) Idling (D) Accelerating
14. The power train transmits power from the engine to the
(A) Crank shaft (B) Rear wheels (C) Front wheels (D) Steering gear
15. The clutch pressure plate is mounted on the
(A) Flywheel (B) Clutch cover (C) Friction disc (D) Crankshaft

Q.2 Answer the following questions. (Attempt any three)**(15)**

- A) List the types of maintenance systems. Explain any one in details.
- B) Explain basic steps of car servicing.
- C) Explain testing and cleaning procedure for petrol injectors.
- D) Explain any one. (1) Wheel alignment (2) Wheel balancer

Q.3 A) Draw the layout of car workshop.**(07)**

- B) Explain air brake system with neat sketch.

(08)**OR**

- B) What do you mean by job card? Prepare a job card and inspection card for four wheeler.

(08)**Q.4 A) Write the procedure for maintenance of steering system.****(07)****OR**

- A) Write the procedure for maintenance of clutch.

(07)

- B) Explain any one : (1) Cylinder Honing process (2) Cylinder boring process

(08)