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U	0	C.

Register No.:	

October 2018

<u>Time - Three hours</u> (Maximum Marks: 75)

- [N.B: (1) Q.No. 8 in PART A and Q.No. 16 in PART B are compulsory.

 Answer any FOUR questions from the remaining in each PART A and PART B
 - (2) Answer division (a) or division (b) of each question in PART C.
 - (3) Each question carries 2 marks in PART A, 3 marks in Part B and 10 marks in PART C.]

PART - A

- 1. What is scavenging?
- 2. What is the function of fuel feed pump?
- 3. Define spark ignition engine.
- 4. What do you mean by self starter mechanism?
- 5. What is main frame?
- 6. Why shock absorbers are used in suspension system?
- 7. What is cast wheel?
- 8. What is meant by overhauling?

PART - B

- 9. Explain splash lubrication.
- 10. What is port timing diagram?
- 11. Write a note on DTSI mechanical speedometer.
- 12. Explain rear suspension system in three wheelers.
- 13. Compare cross ply and radial ply tyres.
- 14. Write few components used in three wheeler disc brake system.
- 15. Write troubleshooting on excessive smoke in three wheeler.
- 16. Discuss periodic checkups of two wheeler.

[Turn over.....

PART ~ C

17. (a) Explain the construction and working of four stroke SI engines.

(Or)

- (b) Briefly explain the different types of scavenging process.
- 18. (a) Explain about magneto coil ignition system.

(Or)

- (b) Briefly explain the kick starting mechanism with a neat sketch.
- 19. (a) Explain the working of sliding mesh gear box with a neat sketch.

(Or)

- (b) Explain the working of centrifugal clutch with neat sketch.
- 20. (a) (i) Explain drum brake.
 - (ii) Compare drum brake with disc brake.

(Or)

- (b) Explain the different types of tyres used in two and three wheelers.
- 21. (a) Discuss about the case study of motor bikes in terms of service and maintenance.

(Or)

(b) What are the important components and their function of pick up van?
