16	-

April 2019

<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.]

<u>PART – A</u>

- 1. Define SI and CI engine.
- 2. List the advantages of magneto coil ignition system.
- Define DTSI.
- 4. What is main frame?
- 5. Why shock absorbers are used in suspension system?
- 6. What are the advantages of disc brake?
- 7. What is meant by overhauling?
- 8. What is scavenging?

PART - B

- 9. List the difference between the two stroke and four stroke engines.
- 10. Define symmetrical and unsymmetrical port timing diagram.
- 11. What are the different types of starting mechanism? What is a kick starter mechanism?
- 12. What is clutch? State the types of clutch used in two and three wheelers.
- 13. Name few parts used in panel meters.
- State the functions of brakes and types of brakes for two and three wheelers.
- 15. What are the causes and remedies for spongy pedal?
- 16. Write short notes on battery ratings in two and three wheelers.

[Turn over....

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PART - C

17. (a) With a neat sketch explain the construction and working of four stroke petrol engine.

(Or)

- (b) Explain the types of fuel system used in two and three wheelers.
- 18. (a) Explain the battery coil ignition system with a neat sketch.

(Or)

- (b) Explain the self-starting systems with a neat sketch.
- 19. (a) Explain the working of multi plate wet clutch used for the two wheelers with a neat sketch.

(Or)

- (b) Explain the types of suspension system used in three wheeler with a neat sketch.
- 20. (a) Describe front and rear brake link layouts for three wheelers with a neat sketch.

(Or)

- (b) Write short notes on: (i)Conventional tyre (ii)Tubeless tyre.
- 21. (a) Draw the layout of autoricksaw and name the different components with their functions.

(Or)

(b) Discuss about the maintenance and servicing of motor cycle.

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