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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

- Mention any two properties of conductors.
- 2. Define peak and RMS value.
- 3. Mention the difference between battery coil and magneto coil ignition systems.
- 4. What is the purpose of spark plug?
- 5. What is the function of commutator and brushes?
- 6. What is the use of cut out and reverse cut out relay?
- 7. What is the purpose of fog lamp and park lamp?
- 8. Differentiate P and N type semiconductor.

PART - B

- 9. State Kirchhoff's laws and Ohm's law.
- Explain briefly about importance of earthing on chassis in automotive wiring.
- 11. Explain about any one method of battery charging.
- 12. Discuss about the requirements of ignition system.
- 13. Discuss about the characteristic of Zener diode.
- 14. Explain briefly about working of starting motor.
- 15. Write about fluorescent lamp in transport vehicles.
- 16. Discuss briefly about Growler testing.

[Turn over.....

PART - C

17. (a) Discuss about the application of electro magnetism in an automobile.

(Or)

- (b) Explain about Fleming's left hand and right hand rule with sketches.
- 18. (a) Explain about construction and working of lead acid battery.

(Or)

- (b) Explain about principles of working of battery coil ignition system with mechanical distributor.
- 19. (a) Describe about the construction of generator with suitable sketch.

(Or)

- (b) Discuss about the troubleshooting in the alternator and armature.
- 20. (a) Explain about the construction of horn with its working.

(Or)

- (b) Explain about window glass panel operating system.
- 21. (a) Discuss about CPU and computer memory used in automobiles.

(Or)

(b) Explain about principle and working of ECU.
