

1259**Code : 15AT42T**Register
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IV Semester Diploma Examination, April/May-2018**AUTOMOBILE ELECTRICAL & ELECTRONICS
SYSTEM****Time : 3 Hours |****[Max. Marks : 100**

- Note :** (i) Answer any **six** full questions from Part – A and each question carries **5** marks.
(ii) Answer any **seven** full questions from Part – B and each question carries **10** marks.

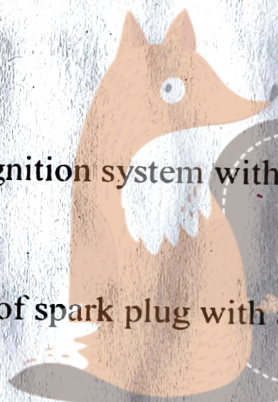
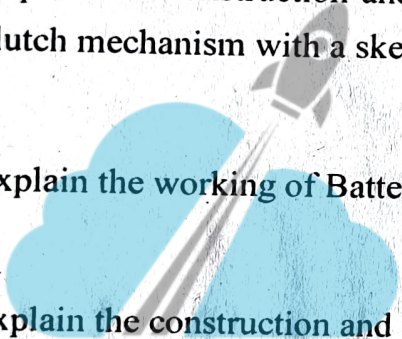
PART – A

1. Write a short note on Semiconductors with examples. 5
2. Explain Faraday's Law of electromagnetic induction. 5
3. Explain the construction of PNP transistor with its symbol. 5
4. List merits and demerits of earth return system. 5
5. State the difference between Lead Acid Battery and Nickel-Cadmium Alkaline Battery. 5
6. State any five comparisons between generator and alternator. 5
7. Explain the need of solenoid switch and drive mechanism in starting system. 5
8. State the meaning of spark plug gap and its importance. 5
9. Draw the circuit diagram of temperature gauge and label the parts. 5

PART – B

10. Define the terms – resistance, Inductance and capacitance with their respective units. 10
11. Explain Half wave rectifier with a circuit diagram. 10
12. Explain the construction and working of Nickel-Iron Battery with the chemical reaction during charging & discharging. 10
13. Explain the construction and working of D.C. Generator with sketch. 10
14. Explain the construction and working of positive engaging drive with over running clutch mechanism with a sketch. 10
15. Explain the working of Battery Coil Ignition system with a circuit diagram. 10
16. Explain the construction and working of spark plug with a neat sketch. 10
17. Explain the construction and working of double filament head light with a sketch. 10
18. Explain the construction and working of wind screen wiper mechanism with a sketch. 10
19. Write short notes on :
(a) LED 5
(b) Firing order 5

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