806	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. Define electrical power.
- 2. What is impedance?
- 3. What is filter?
- 4. Mention the types of DC machines.
- 5. Mention the methods of speed control of DC motor.
- 6. What do you understand by cable looming?
- 7. What is electrostatic discharge?
- 8. Two resistors each of 10 ohm resistance are connected in parallel. What is the effective resistance?

PART - B

- 9. Draw the sinusoidal waveform and mark peak and peak to peak values.
- 10. Define power factor.
- 11. Draw the frequency response curve of low pass filter.
- 12. What is the basic principle behind DC generator?
- 13. Write a note on permanent magnet generator.
- 14. Write the procedure of removal of connector pin.
- 15. What is HIRF?
- 16. What is the current through 10 ohm resistor? When it is excited from 200V DC source?

[Turn over....

PART - C

17. (a) Define the following: (i)Ohm's law (ii)Internal resistance of supply.

(Or)

- (b) Two resistors of 10 ohm and 15 ohm resistance are connected in series and fed from 250V supply. Find (i)Total resistance (ii)Current through circuit (iii)Voltage across each resistor.
- 18. (a) A series circuit consists of 10 Ω resistor and 1H inductor. Find (i) limpedance (ii)Current through circuit when voltage applied is 100V (iii)Power factor.

(Or)

- (b) Explain the operation and application of any one type of filter.
- 19. (a) Explain the constructional details of DC generator.

(Or)

- (b) Explain the operation of single phase induction motor.
- 20. (a) Describe the construction and characteristics of high tension cables.

(Or)

- (b) Explain the testing procedures of electrical wiring interconnection system.
- 21. (a) Describe about lighting and protection against lighting.

(Or)

(b) With simple sketches, explain personnel anti static protection devices.