

**C. ABDUL HAKEEM COLLEGE (AUTONOMOUS),
MELVISHARAM - 632 509.
SEMESTER EXAMINATIONS, NOVEMBER - 2018**

B.Sc., PHYSICS
SEMESTER III
U15SPH301 - ELECTRICAL AND ELECTRONIC APPLIANCES (SBS - I)

Time: Three Hours

Maximum: 60 Marks

SECTION - A (10 X 1 = 10 Marks)

Answer **ALL** Questions.

1. Explain Earthing.
2. Expand LED and name its uses.
3. What is semiconductor diode?
4. Give two uses of Zener diode.
5. Write notes on FM transmitter.
6. Explain dish antenna.
7. Give concept of cell in mobile communication.
8. Uses of Bluetooth.
9. Name some output devices.
10. What is the use of Windows in computer?

SECTION - B (5 X 4 = 20 Marks)

Answer **ALL** Questions.

11. a) Write notes on circuit breaker and fuses with necessary diagrams.
(Or)
b) Write notes on electrical bulbs.

12. a) Define diodes, explain briefly about semiconductor and zener diode with necessary symbols.

(Or)

- b) Describe about Zener diode voltage regulator (series type) with necessary diagram.

13. a) Distinguish between AM and FM transmitters.

(Or)

- b) Write notes on dish antenna and DTH system.

14. a) Explain briefly about the fundamentals of mobile communication.

(Or)

- b) Write about day to day usage of internet and Emails.

15. a) Write short notes on the programs installed in personal computers.

(Or)

- b) Explain briefly about operating systems.

SECTION - C (3 X 10 = 30 Marks)

Answer **ANY THREE** Questions.

16. Explain briefly about Fan, Grinder, Mixer and Water Heater.
17. Define Zener diode and write down its characteristics.
18. With neat block diagram explain briefly about superheterodyne receiver.
19. Write down the fundamentals of Bluetooth, Wifi and give their usage in everyday life.
20. Explain about different memories RAM, ROM, EPROM.
