

NOVEMBER/DECEMBER 2019


**BSEL35 — PRINCIPLES AND  
UTILISATION OF ELECTRONIC  
DOMESTIC APPLIANCES**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.

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1. What is controller?
  2. What is the role of thermal protector?
  3. What is ability of fully automatic machine?
  4. What are the advantages of fuzzy logic?
  5. What is hydronic heating system?
  6. Give the benefits of central air conditioning systems.
  7. What do you understand by arithmetic unit in a calculator?
  8. What is frequency divider in digital clock?
  9. What are called set-top boxes?
  10. What are the advantages of digital cable TV?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe the single chip controllers of a microwave oven.

Or

- (b) Comment on the generation of microwaves by magnetron.

12. (a) Describe briefly the washing machine hardware and software development.

Or

- (b) Give an account on features of washing machines.

13. (a) Describe the Components of air conditioning systems.

Or

- (b) Outline the salient features of All water air conditioning systems.

14. (a) Describe the internal structure of a calculator.

Or

- (b) Discuss the block diagram of a digital clock.

15. (a) Outline the internet access.

Or

- (b) Describe the online ticket reservation.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the functional block diagram of microwave oven.

17. Describe the fuzzy logic washing machines.

18. Describe the followings

- (a) All air conditioning systems

- (b) Split air conditioners

19. Explain the facsimile machine.

20. Discuss the barcode scanner and decoder.

