

5475047

B.Tech. DEGREE EXAMINATION, SEPTEMBER 2020.

Fifth Semester

Information Technology

COMPUTER HARDWARE AND
TROUBLE SHOOTING

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the factors affecting the Speed of the Microprocessor?
2. What is BIOS beep code?
3. What is PCI slot? How does it differ from *PCI-E*?
4. Define USB.
5. Mention the most common use of Joystick.
6. What is mouse pad? Why is it needed?
7. Name different types of storage devices.
8. Expand CMOS.
9. What do you mean by add on cards?
10. What is the purpose of digital multimeter?

PART B — (5 × 11 = 55 marks)

Answer ALL questions, ONE from each Unit.

UNIT I

11. What are the components of computer? Explain their functions with neat diagram.

Or

12. Explain the following :
- (a) POST and its sequence
 - (b) DMA.

UNIT II

13. Explain the major types of bus connectors in standard computers.

Or

14. (a) What is a MODEM? How does it work? Explain.
- (b) What does a network interface card do? Describe different forms of NIC.

UNIT III

15. Elucidate the function of a scanner and different types of scanners.

Or

16. What are the characteristics of graphic cards and monitors? Explain various common graphics cards and monitor standards for personal computers.

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UNIT IV

17. Describe the structure and functionality of hard disk.

Or

18. (a) How to install CD-ROM drive? Explain.
- (b) Write short notes on Flash memory.

UNIT V

19. (a) Explain the functions of In-Circuit Emulators.
- (b) What are the trouble shooting problems of system boards? Explain any one.

Or

20. (a) Illustrate the role of Logic state/ Time analyzer.
- (b) What are the tools for checking Hard disk drive? Discuss.

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