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BE(LE)-III/02(A)

25106

COMPUTER ENGINEERING

COURSE NO. COM – 302

(PC Hardware & Maintenance)

Time Allowed: 3 Hours

Maximum Marks: 100

Note: Attempt five questions in all selecting at least two questions from each Section. Each question carries 20 marks.

Section – A

1. (a) What is Form Factor? What are the different PC M/B Form Factors?
(b) What are the parameters to be considered while selecting a Motherboard?
(10, 10)
2. (a) Differentiate SIMM & DIMM memory modules. Enlist advantages and disadvantages of both memory modules.
(b) What is Cache memory? How it differs from main memory? How Cache memory improves the performance of a CPU?
(10, 10)
3. (a) What is Device Driver? Explain the key role of device driver in a PC.
(b) What are BIOS Interrupts?

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- (c) Discuss in brief the principle function of Bootstrap Loader in a PC. (10, 5, 5)
4. (a) What is Chipset? Discuss in detail about Intel 845 (i845) Chipset Family. Write its salient features.
- (b) What are the different bus architectures used in a PC Design? (12, 8)

Section – B

5. (a) What is Output Device? Discuss principle working of any two output devices.
- (b) What is a USB? Discuss its major goals. Enlist few benefits of USB. (10, 10)
6. What is a UPS? Explain its types. Discuss various advantages and disadvantages of UPS.
7. (a) What Safety and Security measures are required for protecting the computer room?
- (b) What are the PC Diagnostic Tools? Differentiate S/W & H/W diagnostic tools. (10, 10)
8. Write short notes on:
- (a) Logical Memory Organization (b) I/O Slots & Connectors
- (c) Preventive Maintenance (d) Anti-Virus Scanner. (4 x5)
