

**First Semester B.C.A./B.Com./B.A. Degree Examination,
October/November 2019**

(CBCS Scheme)

Computer Science

COMPUTER HARDWARE AND NETWORKING

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Answer all the Sections.

SECTION – A

I. Answer any **TEN** questions. (10 × 1 = 10)

1. Which is the earliest computing device?
2. Who developed IC?
3. Expand MICR.
4. Give an example of non-positional number system.
5. Mention any two secondary storage devices.
6. Define Cache Memory.
7. Mention any two output devices.
8. Write two examples of High level languages.
9. What is a Motherboard?
10. What is Base (or) Radix of a number?

11. Expand ARPANET.

12. What is the purpose of Bluetooth?

SECTION – B

II. Answer any **FIVE** questions. (5 × 3 = 15)

13. Explain any three characteristics of a Computer.

14. Write a note on Third Generation of Computer.



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- 15. Convert $(7B3)_{16}$ to Decimal.
- 16. Explain different types of ROM.
- 17. Explain Simplex Communication with a suitable diagram.
- 18. Explain the applications of Networking.
- 19. Write a short note on NIC.

SECTION - C

III. Answer any **SIX** questions. **(6 × 5 = 30)**

- 20. Explain the classification of Computer based on size and capability.
- 21. Explain the difference between primary memory and secondary memory.
- 22. What do you mean by Input device? Explain any two pointing device.
- 23. Write a short note on Non-Impact printers.
- 24. Explain different types of portable computers.
- 25. Explain system Bus in detail.
- 26. Explain different types of I/O ports.
- 27. What do you mean by Hub? Explain different types of Hubs.

SECTION - D

IV. Answer any **FIVE** questions. **(5 × 7 = 35)**

- 28. Explain the applications of Computer. **(7)**
- 29. (a) Convert : $(10101101)_2 = (?)_8 = (?)_{10} = (?)_{16}$ **(5)**
(b) What do you mean my programming language? What are the types of languages? **(2)**
- 30. Write a Block diagram of Computer and explain the components. **(7)**
- 31. (a) What as topology? Explain any two network topologies. **(5)**
(b) Explain any two components of Motherboard. **(2)**

32. (a) Explain the functions of CPU. (4)
- (b) What are the basic components of data communication? (3)
33. (a) Explain the working of OSI reference model. (5)
- (b) What is Network? Mention different types of Network. (2)
34. What do you mean by the following : (7)
- (a) Internet
 - (b) Intranet
 - (c) Switch
 - (d) Router
 - (e) Bridge
 - (f) Gateway
 - (g) Protocol

