

**B.C.A DEGREE EXAMINATION –
DECEMBER, 2018.**

First Year

COMPUTER FUNDAMENTALS AND PC SOFTWARE

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Explain the advantages of peripheral devices.
2. Explain the purpose of assembly language.
3. Briefly describe various elements of communication hardware.
4. Differentiate synchronous and asynchronous data communication.
5. Explain various classifications of computer viruses.
6. Briefly describe any two types of multimedia.
7. Briefly describe the steps involved in creating a powerpoint presentation.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain various types of computer memory with appropriate examples.
9. Explain various types of operating system with examples.
10. Explain in detail about various modes of communication with respective communication diagrams.
11. Describe in detail about the simplified model of symmetric encryption scheme with neat diagram.
12. Define SMTP. Explain the basic operations of mail system with SMTP mail flow architecture.
13. Explain how a computer memory can be managed by Windows operating system.
14. Explain how to
 - (a) Work with tables (5)
 - (b) Protect a document (5)