

**COURSE CODE: BCS-011**  
**BACHELOR OF COMPUTER APPLICATIONS**  
**PROGRAMME CODE: BCAOL**  
**COMPUTER BASICS AND PC SOFTWARE**

**Total Marks-100**

**Time Duration-180 Minutes**

Note : Attempt questions from all Sections as instructed.

Section-I (Short Answer Type Questions) (5×4=20)

Note : Attempt any five questions. Each question carries 4 marks.

1. Convert the following hexadecimal numbers to its equivalent binary:
  - i)  $(A5)_{16}$
  - ii)  $(F2)_{16}$
2. Define a flowchart. Draw a flowchart to find the sum of all the ten integers given as input.
3. List all the five generations of computers along with the “Switching Circuits”/”Electronic Component” used by them.
4. What is a looping statement in a programming language? Explain with an example.
5. Define an operating system. Briefly explain important components of an operating system.
6. Define a Browser. How does it work?
7. Write and explain important components of an e-mail.

Section-II (Medium Answer Type Questions) (5×10=50)

Note : Attempt any five questions. Each question carries 10 marks.

8. What is data communication? Explain data communication process with the help of a diagram.

9. Define a subroutine in a programming language. Explain the steps of its execution. Write a simple subroutine to find the square of a given number.
10. What is a search engine? Explain various components of it. If you wish to search for ‘Central Universities of India’, how you will search them? Mention its process.
11. What is an Application Software? Mention at least four application softwares along with their purpose. How is an application software is different from system software?
12. What is WIKI? Explain the characteristics of WIKI. How is it useful for students?
13. What is RAM? How is it different from ROM and Cache memory? Explain.
14. What is e-Learning? Explain the e-Content development process in e-Learning.

Section-III (Long Answer Type Questions) (2×15=30)

Note : Attempt any two questions. Each question carries 15 marks.

15. Explain various layers in TCP/IP model with the help of a diagram.
16. Define Open Source Software. Give any two examples of open source software. Also, explain the main features of open source development model.
17. Explain any three of the following:
  - a) LAN and WAN
  - b) Disk Management
  - c) Utility Software
  - d) Object Oriented Programming Languages