BCS-011

BACHELOR OF COMPUTER APPLICATIONS (BCA)

Term-End Examination

June, 2023

BCS-011 : COMPUTER BASICS AND PC SOFTWARE

Time : 3 Hours *Maximum Marks : 100*

(Weightage : 75%)

Note : *(i) Question **No.** 1 is compulsory and carries 40 marks.*

*(ii) Attempt any **three** questions from the rest.*

1. (a) Write short notes on the following : 10

    (i) Cache Memory

    (ii) PROM

    (iii) Winchester Disk

    (iv) WORM

    (v) WIKI

P. T. O.

(b) Describe the need and working of any *two* input devices. 4

(c) What are Operating Systems ? Explain any *four* operating system services. 6

(d) Explain the differences between wired and wireless communication. 5

(e) What is the need of MS-Excel Software ? List any *four* features of this software. 5

(f) What are Network Topologies ? Explain Star and Bus topologies with the help of a diagram. 6

(g) What are IP Addresses ? Describe the components of an IPv4 Address. 4

2. (a) List the key features of the technologies used in the *five* generations of computer evolution. 5

(b) What is Data Communication ? Draw and explain various components of a simple data communication system. 7

(c) What are cookies ? Are they dangerous for your system ? List some tips to avoid cookies. 5

(d) Write a short note on Proxy Servers. 3

3. (a) What is seek time ? How is it different from latency time ? 5

(b) Describe the storage organization of a Hard Disk Drive with the help of a diagram. 8

(c) What is Open Source Software ? Explain the main features of the Open Source Development Model. 7

4. (a) Differentiate between CRT, LCD and LED monitors. 6

(b) What is Client/Server Architecture ? Explain the three-tier client/server achitectures with the help of a diagram. 7

(c) Describe the OSI reference model with the help of a diagram. 7

P. T. O.

5. (a) Why does software need licence ? Explain the evolution of software licencing and the different types of software licences. 9

   (b) What are perverse software ? Explain any *four* perverse softwares and how can users counter and control such softwares in their systems. 6

   (c) What are collaboration tools and why are they needed ? Describe any *two* web based collaboration tools. 5