No. of Printed Pages : 5 **BCS–011/BCS–111**

BACHELOR OF COMPUTER APPLICATIONS

(BCA–Old/New)

(REVISED)

Term-End Examination

December, 2024

BCS-011/BCS–111 : COMPUTER BASICS AND PC SOFTWARE

Time : 3 Hours *Maximum Marks : 100*

Weightage : 75%

Note : *Question No. **1** is compulsory. Attempt any **three** questions from the rest.*

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1. (a) What is Social Networking ? Explain its advantages and disadvantages. 4

(b) What is Cloud ? List any *three* features of cloud computing and describe each of them briefly. 6

(c) A tape is 4000 feet long and has a recording density of 1200 bpi. What is its storage capacity ? 3

(d) What are Operating Systems ? Explain any *four* operating systems services. 8

(e) What are ports and why are they needed ? Explain parallel ports and serial ports. 5

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

(g) Write short notes on the following : 2×5=10

(i) Cache Memory

(ii) PROM

(iii) Winchester Disk

(iv) WORM

(v) Seek Time and Latency Time

2. (a) What are Network Topologies ? Explain star and tree topologies with the help of diagram. Explain their structures, advantages and disadvantages. 6

   (b) What are Open Source Softwares and why are they in demand today ? List the key criterion of OSD compliance. 6

   (c) Write short notes on any *four* software diagnostic tools. 8

3. (a) What are browser cookies and why are they dangerous for your system ? List some tips to avoid cookies. 5

   (b) Differentiate among CRT, LCD and LED monitors. 6

   (c) Explain the role of any *two* folders that are part of your e-mail account. 5

   (d) Explain Proxy Servers. 4

4. (a) What is Client/Server Architecture ? Explain the *three* types of client/server architectures. 7

   (b) Explain the role of the following network devices : 2×4=8

   (i) Network Interface Card

   (ii) Gateway

   (iii) Hub

   (iv) Router

   (c) Explain the evolution of computers over five generations, describing the key technologies in each and how they led to changes in the size and processing of the computers. 5

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

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

(c) What are Web Browsers ? Explain how a web browser works. Also explain the types of web browsers. 5

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