

No. of Printed Pages : 4

**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%)*

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

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