

Professional Course (Odd) Examination, 2024

(CBCS)

(1st Semester)

BACHELOR OF COMPUTER APPLICATIONS**(Introduction to Information Technology)***Full Marks : 75**Time : 3 hours**The figures in the margin indicate full marks for the questions***(PART : A—OBJECTIVE)**

(Marks : 25)

SECTION—I

(Marks : 15)

A. Tick (✓) the correct answer in the brackets provided : 1×10=10

1. CD-ROM is a

- (a) memory register ()
- (b) magnetic memory ()
- (c) semiconductor memory ()
- (d) non-volatile memory ()

2. Which component of the computer is called the brain of computer?

- | | |
|----------------|-----------------|
| (a) Memory () | (b) Monitor () |
| (c) CPU () | (d) Printer () |

3. Which of the following is not an output device?

(a) Headphone ()	(b) Monitor ()
(c) Speaker ()	(d) Scanner ()
4. Which of the following programs is essential for the functioning of a computer system?

(a) MS Word ()	(b) Operating system ()
(c) MS Excel ()	(d) MS PowerPoint ()
5. Software programs developed for performing particular tasks related to managing computer resources is called

(a) system software ()	(b) utility software ()
(c) application software ()	(d) helper software ()
6. Which type of data can be stored in the database?

(a) Image-oriented data ()	(b) Text, files containing data ()
(c) Data in the form of audio or video ()	(d) All of the above ()
7. What is the full form of OSI?

(a) Optical Service Implementation ()	(b) Open Service Internet ()
(c) Open System Interconnection ()	(d) Operating System Interface ()
8. What is the term used for the data communication system within a building or campus?

(a) MAN ()	(b) LAN ()
(c) PAN ()	(d) WAN ()
9. URL stands for

(a) Uniform Resource Locator ()	(b) Uniform Reference Label ()
(c) Unique Reference Label ()	(d) Unique Resource Locator ()

10. Any information created by us that exists in digital form is called
(a) Cyber print () (b) Internet print ()
(c) Digital footprint () (d) Web fingerprint ()

B. State whether the following statements are *True (T)* or *False (F)* by putting a Tick (✓) mark : 1×5=5

1. The data need not be converted into information for its usefulness.
(T / F)
2. Multiprogramming is mainly accomplished by hardware.
(T / F)
3. The primary key is a candidate key chosen by the database designer to identify the tuple in the relation uniquely.
(T / F)
4. There are 6 layers in the ISO OSI reference model.
(T / F)
5. Using someone's twitter handled to post something will be termed as identity theft.
(T / F)

SECTION—II

(Marks : 10)

C. Answer the following questions : 2×5=10

1. What are the functions of the CU and ALU in a CPU?
2. How does a compiler differ from an interpreter?
3. What is Database Management System? Why do we need a DBMS?
4. Define router and switch.
5. What is Phishing? Give example.

(PART : B—DESCRIPTIVE)**(Marks : 50)**

1. (a) Discuss the different types of data that can be given as input to the computer with examples. 5
 - (b) Explain the simple model of a computer. 5
- OR**
- (c) Explain in detail the different types of storage used for backups. 10
2. (a) What is an output device? Explain impact and non-impact printers with their characteristics. 4
 - (b) Discuss the functions of operating system. 6
- OR**
- (c) Explain the workings of multiprogramming, multitasking and multiprocessing systems. 6
 - (d) What is a flowchart? Explain the basic symbols used in flowchart designs. 4
3. (a) What is software? What are the two types of software? 3
 - (b) Discuss the different types of application software with suitable examples. 7
- OR**
- (c) What is Data Organization? Explain the need for data organization. 4
 - (d) Explain briefly about Database Management System. 6
4. (a) Describe the basic elements of the communication system with suitable block diagram. 5
 - (b) Discuss the TCP/IP model with a neat diagram. 5
- OR**
- (c) Explain the features of LAN, MAN and WAN. 6
 - (d) Mention two advantages each of both Half-Duplex and Full-Duplex transmission modes. 4
5. (a) Write a short note on E-mail system. 5
 - (b) Explain the basic components of World Wide Web. 5
- OR**
- (c) Explain the impact of information technology on society. 5
 - (d) How can you provide security to a PC from attacks? 5
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