

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : WINTER: 2025
SUBJECT: INFORMATION SECURITY: INFORMATION SECURITY CONCEPTS

Day : Thursday
Date : 13/11/2025

W-26306-2025

Time : 02:00 PM-05:00 PM
Max. Marks : 100

N.B.

1. Attempt **ANY FIVE** questions from Section – I and **ANY TWO** questions from Section II
2. Figures to the **RIGHT** indicate **FULL** marks.
3. Answers to both the sections should be written in **SAME** answer book.

SECTION – I

- Q.1** Differentiate between cyber security and information security. Explain with suitable examples where both fields overlap and where they differ. (12)
- Q.2** What is information classification? Explain its importance and the common methods used to classify information assets in organizations. (12)
- Q.3** Describe various facility requirements essential for maintaining a physically secure environment in an organization. (12)
- Q.4** Define a firewall. Discuss different types of firewalls and compare their advantages and disadvantages with examples. (12)
- Q.5** Discuss the security features available in Windows operating systems. How do user account control and file system security contribute to protecting Windows environments? (12)
- Q.6** What is cloud security? Discuss the main security challenges faced in cloud computing and the strategies used to address them. (12)
- Q.7** Write Short Notes on **ANY TWO** of the following : (12)
- a) VPN
 - b) Disaster Recovery
 - c) Digital Signature
 - d) Cryptography

SECTION – II

- Q.8** Discuss fire protection strategies and systems used in safeguarding information assets. How do fire detection and suppression systems work together? (20)
- Q.9** Design a basic security plan for an organization that uses both Windows servers and MS SQL databases. What key aspects should be considered to ensure overall system security? (20)
- Q.10** Describe the role of a Security Operations Center (SOC) in modern cybersecurity infrastructure. How does a SOC respond to emerging cyber threats? (20)

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

B.C.A. Sem-V : WINTER: 2025

SUBJECT: DATA ANALYSIS: DATA ANALYSIS USING EXCEL

Day : Thursday
Date : 13/11/2025.

W-26305-2025

Time : 02:00 PM-05:00 PM
Max. Marks : 100

N.B.

- 1) Attempt **Any FIVE** questions from **Section - I** and **Any TWO** questions from **Section -II**.
- 2) Figures to the right indicates **FULL** marks.
- 3) Answer to both the sections should be written in **SAME** answer book.

SECTION – I

- Q. 1** Define Data Analysis. How does Excel support business decision making through data analysis tools? (12)
- Q. 2** Explain the use of the 'IF', 'AND', and 'OR' functions with practical examples. (12)
- Q. 3** What are different sorting and grouping functionalities in Excel? Explain with example (12)
- Q. 4** Describe the following Excel functions such a MAX, MIN, DATEDIF, COUNT, TODAY, and CLEAN with example. (12)
- Q. 5** Explain different screen elements like Tool Bar, Title Bar, Ribbon, Formula Bar and status Bar in Excel. (12)
- Q. 6** Discuss the use and advantages of using Pivot Tables. (12)
- Q. 7** Write short notes on **ANY THREE** of the following : (12)
- a) Functions to Manipulate the Text and Data in Excel
 - b) Data Sorting (Basic and Customs)
 - c) Sparklines
 - d) Creating and Managing the charts with excel

SECTION – II

- Q. 8** a) What is Conditional formatting? Give any two uses. (10)
- b) Write the steps to highlight all values greater than 500 in a column using Conditional Formatting. (10)
- Q. 9** a) Explain the use of the SUMIF function in Excel with an example. (10)
- b) What is the difference between CEILING, FLOOR, ABSOLUTE and ROUND (10)
- Q.10** a) What is data sorting and why is it useful? Explain with examples. (10)
- b) Write the steps to sort a list of students by their total marks in descending order. (10)

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

B.C.A. Sem-V : WINTER: 2025

SUBJECT: ENTREPRENEURSHIP DEVELOPMENT

Day : Tuesday
Date : 11/11/2025

W-26304-2025

Time : 02:00 PM-05:00 PM
Max. Marks : 100

N.B.

- 1) Attempt any **FOUR** questions from Section – I and any **TWO** questions from Section – II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in the **SAME** answer book.

SECTION - I

- Q.1** What are the problem faced by women entrepreneurs while starting business in India? (15)
- Q.2** Explain the opportunities for an entrepreneur in India (15)
- Q.3** Describe sources and types of finance. (15)
- Q.4** Explain the role of Central Government and State Government in promoting entrepreneurship. (15)
- Q.5** Explain EDP. What are the factors motivating to entrepreneurs? (15)
- Q.6** Write short notes on any **THREE**: (15)
- a) Government schemes to promote entrepreneurship
 - b) Importance of venture capital
 - c) Environmental analysis
 - d) Function of entrepreneur

SECTION - II

- Q.7** How to use SWOT analysis to identify and select a project for small scale industry. (20)
- Q.8** You want to start a new tour company in your city with many international tour packages. Present your business plan to bank manager for availing loan. (20)
- Q.9** Explain the role of DIC and SISI as support agencies for entrepreneurs. (20)

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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

B.C.A. Sem-V : WINTER: 2025

SUBJECT: DOT NET PROGRAMMING USING C#

Day : Saturday
Date : 08/11/2025

W-26303-2025

Time : 02:00 PM-05:00 PM
Max. Marks : 100

N.B.

- 1) Attempt any **FIVE** Questions from section-I and any **TWO** Questions from Section-II
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Answer to both section should be written in **SAME** answer book.

SECTION-I

- Q. 1 Explain Dot Net framework with its main component. (12)
- Q. 2 Define encapsulation and explain how it is implemented in C # with example. (12)
- Q. 3 What is Inheritance? Explain in detail. (12)
- Q. 4 What is delegate in C #? Explain. (12)
- Q. 5 Discuss any three controls used in windows form applications. (12)
- Q. 6 Explain the purpose of event with example. (12)
- Q. 7 Write a short note on any **TWO** of the following: (12)
- a) Boxing and Unboxing
 - b) Static keyword
 - c) Thread class

SECTION-II

- Q. 8 Write a program to overload Binary Operator. (20)
- Q. 9 Design a form to store employee information in employee table (Empno, Ename, Gender, Designation, Salary) (20)
- Q. 10 Write a C # program to create a delegate that can call two different methods first addition and second multiplication. (20)

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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : WINTER: 2025
SUBJECT: BASIC PYTHON PROGRAMMING

Day : Thursday
Date : 06/11/2025

W-26302-2025

Time : 02:00 PM-05:00 PM
Max. Marks : 100

N.B.

- 1) Attempt **ANY FIVE** questions from Section – I and **ANY TWO** questions from Section – II.
- 2) Answers to both the section should be written in the **SAME** answer book.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1 List different data types available in Python. Also explain process of reading integer data from user. Also explain type conversion. [12]
- Q.2 With suitable example, explain conditional statement in python. Also explain use of continue and break statements. [12]
- Q.3 How to define set in Python? Explain add, remove, union, intersection and difference of set. [12]
- Q.4 How exceptions are handled in python? Write a python program to demonstrate exception handling. Also explain raise statement. [12]
- Q.5 With suitable example, explain use of local variable and global variables in python. [12]
- Q.6 How to define a class in Python? With suitable example, explain class, object, and attribute access in detail. [12]
- Q.7 Write short notes on **ANY THREE** of the following: [12]
- a) User defined function
 - b) Decorators
 - c) File operations
 - d) Iterators

SECTION – II

- Q.8 Write a Python program to read two matrices from user. Also write code to perform multiplication of them and display result. Also write code to perform necessary validations. [20]
- Q.9 Define a class Employee that can store empid, name, salary, and department. Write necessary methods to store and access this information for multiple employees. Also write method to display employees of marketing department only. [20]
- Q.10 a) Write a function to print all the prime numbers between m and n ($m < n$). Accept values of m and n from user. [10]
- b) Write a Python program to read content from one file and write it to other file; while writing copy even numbered lines only. [10]