

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

Day : Monday
Date : 12/05/2025

S-26306-2025

Time : 10:00 AM-01:00 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 Explain how compliance standards help organization to protect their data. (12)
- Q.2 Explain secure coding techniques used in web application security. (12)
- Q.3 Explain the following terms: (12)
i) Fire protection ii) Fire suppression and iii) Power protection
- Q.4 Explain in detail secure network design. (12)
- Q.5 Explain in detail MS-SQL database security. (12)
- Q.6 What is CIA? Explain in detail. (12)
- Q.7 Write short notes on **ANY TWO** of the following: (12)
a) VPN
b) File permissions in UNIX
c) Cyber security

SECTION – II

- Q.8 What is business continuity? Explain Data recovery and disaster recovery with example. (12)
- Q.9 Explain the different security principles and models in information security. (12)
- Q.10 What is Firewall? Explain firewall design and types of Firewall. (12)

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : SUMMER : 2025
SUBJECT: DATA ANALYSIS: DATA ANALYSIS USING EXCEL

Day : Monday
Date : 12/05/2025

S-26305-2025

Time : 10:00 AM-01:00 PM
Max. Marks : 100

N. B. :

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

SECTION – I

- Q. 1** Explain the process of creating a Pivot Table in Excel. Discuss the types of data that can be summarized using Pivot Table. (12)
- Q. 2** What is the VLOOKUP function? Explain its syntax and limitations with an example. (12)
- Q. 3** Describe the conditional formatting feature in Excel. How can it be used to highlight trends in a dataset? (12)
- Q. 4** Explain the difference between Absolute and Relative References in Excel provide examples for each. (12)
- Q. 5** What is Data Validation in Excel? How does it help in maintaining data integrity? Provide practical examples. (12)
- Q. 6** Discuss the importance of Charting Tools in Excel. Explain how different types of charts can be used for data analysis. (12)
- Q. 7** Write short notes on ANY THREE of the following: (12)
- a) Data Cleaning
 - b) Filtering Data
 - c) Importance of Dashboards in Business Analysis
 - d) XLOOKUP vs VLOOKUP

SECTION – II

- Q. 8** Explain following functions with example of each: (20)
- i) Round
 - ii) Floor
 - iii) Ceiling
 - iv) Trim
 - v) Sqrt

P. T. O.

Q. 9 You are given a dataset with sales data for the last 5 years. Explain how you would use PivotTables and Charts to present this data effectively to a sales Team. (20)

The dataset typically includes following columns:

Date, Product ID, Product Category, Sales person ID, Region, Customer Segment, Unit sold, Sales Revenue

Use following questions for creating charts:

- a) Sales by product category and year
- b) Salesperson Performance
- c) Regional Sales
- d) Top products by units sold
- e) Customer segment analysis

Q.10 Explain the following :

(20)

- a) Sorting
- b) Protecting Cells
- c) Pivot Chart
- d) Comments and spell check
- e) Hyperlink

120525-m-iom-kolhapur

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : SUMMER : 2025
SUBJECT: ENTREPRENEURSHIP DEVELOPMENT

Day : Friday
Date : 09/05/2025

S-26304-2025

Time : 10:00 AM-01:00 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** Define Entrepreneur? Explain features of entrepreneur. (15)
- Q.2** Describe the steps involved in search for business ideas. (15)
- Q.3** Discuss the various sources of finance available to an entrepreneur with their pros and cons. (15)
- Q.4** Explain in detail how Government of India is promoting entrepreneurship in our country. (15)
- Q.5** Explain EDP. What are the factors motivating to entrepreneurs? (15)
- Q.6** Write short notes on any **THREE**: (15)
- a) SIDICO
 - b) Importance of venture capital
 - c) Entrepreneurial opportunities in India
 - d) Types of entrepreneur

SECTION - II

- Q.7** What are the challenges faced by women entrepreneurs in India? Outline the government role in growth of women entrepreneurship in India. (20)
- Q.8** Prepare a business plan for the computer training institution in your city. (20)
- Q.9** Explain the function of DIC and SIDBI. (20)

* * * *

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

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

SUBJECT: DOT NET PROGRAMMING USING C#

Day : Wednesday

Date : 07/05/2025

S-26303-2025

Time : 10:00 AM-01:00 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** Write a difference between overloading of and overriding. (12)
- Q. 3** What is inheritance? Explain. (12)
- Q. 4** What is delegate in C #? Explain with example. (12)
- Q. 5** Explain the concept of operator overloading with example. (12)
- Q. 6** Explain exception handling with example. (12)
- Q. 7** Write a short note on any **TWO** of the following: (12)
- a) Static keyword
 - b) Out parameters
 - c) Data Adaptor

SECTION-II

- Q. 8** Illustrate with an example of connecting to the database and retrieving a data from table. (20)
- Q. 9** Create a delegate that can call two different methods first is subtraction and Second is Division. (20)
- Q. 10** Write a C # code to create and use custom exception. (20)

* * * * *

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

Day : Monday
Date : 05/05/2025

S-26302-2025

Time : 10:00 AM-01:00 PM
Max. Marks : 100

N.B.

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

SECTION – I

- Q.1** What do you know about list and tuple? List various operations to be carried out on list type and briefly describe them. (12)
- Q.2** Explain working of if, if-else and if-elif statements in python. (12)
- Q.3** Describe mechanism of defining and using function in python. Also comment of returning multiple values from function. (12)
- Q.4** When to use logical operators? Describe usage of logical operators available in python with example. (12)
- Q.5** How to read and write data in file? Explain relevance file object for it. (12)
- Q.6** When to use function decorators. Explain use of it with suitable example. (12)
- Q.7** Write short notes (**ANY THREE**): (12)
- a) List comprehensions
 - b) Features of python
 - c) Global variables
 - d) break and continue

SECTION - II

- Q.8** What do you know about stack data structure? Write a python code to implement user defined stack and use it to demonstrate operations to be carried on it. (20)
- Q.9** What are reasons to use exception handling? Illustrate mechanism of exception handling supported by python with suitable example. (20)
- Q.10** a) Write a python program to read a string and count occurrences of each character present in string. Don't use built-in function. (10)
- b) Write a python program to create two sets and perform various set operations on them. Print original sets and also result of each operation carried out on them. (10)

* * * * *