

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : SUMMER : 2026
SUBJECT: DOT NET PROGRAMMING USING C#

Day : Friday
Date : 15/05/2026

S-26303-2026

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

N.B.

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

SECTION – I

- | | | |
|------------|--|------|
| Q.1 | Explain Interface with Example. | (12) |
| Q.2 | Explain components of ADO.NET. | (12) |
| Q.3 | What is the difference between overloading and overriding? | (12) |
| Q.4 | What is Array? Explain with Example. | (12) |
| Q.5 | Explain Exception handling with Example. | (12) |
| Q.6 | Explain various looping statements with example. | (12) |
| Q.7 | Write short notes on ANY TWO of the following: | (12) |
| | a) Boxing and Unboxing | |
| | b) Enumeration | |
| | c) Constructors | |

SECTION-II

- | | | |
|-------------|--|------|
| Q.8 | Write a program to create and use custom exception. | (20) |
| Q.9 | Write a Program to display prime numbers from 1 to 25. | (20) |
| Q.10 | Write a Program to display date in various format | (20) |

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : SUMMER : 2026
SUBJECT: INFORMATION SECURITY: INFORMATION SECURITY CONCEPTS

Day : Wednesday
Date : 20/05/2026

S-26306-2026

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 in detail Data Security Identification and Authentication. | (12) |
| Q.2 | What is General Environmental Protection? Explain Equipment Failure Protection. | (12) |
| Q.3 | What is CIA? Explain in detail. | (12) |
| Q.4 | What is Firewall? Explain Types of Firewall. | (12) |
| Q.5 | What is Database security? Explain with example. | (12) |
| Q.6 | Explain in detail types of security operation centers. | (12) |
| Q.7 | Write short notes on ANY TWO of the following: | (12) |
| | a) WLAN Security | |
| | b) VPN | |
| | c) Application Security | |

SECTION – II

- | | | |
|-------------|---|------|
| Q.8 | Explain with example continuous security testing and Assessment. | (12) |
| Q.9 | What is business continuity? Explain data backup and disaster recovery with example. | (12) |
| Q.10 | What is network threat? Explain what are the different types of Network Threat and how you can provide the security for such types of threat. | (12) |

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : SUMMER : 2026
SUBJECT: DATA ANALYSIS: DATA ANALYSIS USING EXCEL

Day : Wednesday
Date : 20/05/2026

S-26305-2026

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** Discuss the significance of Pivot Tables in Excel for summarizing and analysing large datasets. Explain the key steps involved in creating a PivotTable. (12)
- Q. 2** Explain the Conditional Formatting features in Excel. How can it be used to highlight outliers or trends in a dataset? (12)
- Q. 3** Describe the use of Data Validation in Excel. Provide examples of different types of validation rules you can apply to ensure data accuracy. (12)
- Q. 4** Explain the purpose of the VLOOKUP function in Excel. How would you use it to combine data from two different tables? (12)
- Q. 5** Discuss the benefits of using Charts in Excel to visualize data. Compare the uses of Line Charts and Bar Charts. (12)
- Q. 6** Explain the process of creating a Dashboard in Excel. How can dashboards be used for decision-making in business? (12)
- Q. 7** Write short notes on **ANY THREE** of the following: (12)
- a) Types of Charts in Excel
 - b) Filtering vs Sorting Data
 - c) Importance of Data Security in Excel
 - d) Advanced Pivot Table Functions (Calculated Fields, Grouping)

SECTION – II

- Q. 8** Explain following functions with example of each: (20)
- i) Rounddown
 - ii) ABS
 - iii) Datedif
 - iv) Concatenate
 - v) Sqrt

P. T. O.

Q.9 What is the purpose of Data Cleaning in data analysis? Mention different techniques to clean the data. How conditional formatting can be used in data validation? (20)

Q.10 Explain the following : (20)

- a) Data protection in Excel
- b) Types of Charts
- c) Dash boards
- d) Filtering
- e) Sorting

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2025-26-m-iom-kolhapur

Day : Monday
Date : 18/05/2026

S-26304-2026

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 **SAME** answer book.

SECTION – I

- Q.1** What are the problems faced by Women Entrepreneur while starting a new 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** Discuss the objectives and the course content of EDP. (15)
- Q.5** How does environmental analysis help in spotting a business opportunity? Explain with suitable example? (15)
- Q.6** Write short note on **ANY THREE** of the following : (15)
- a) Qualities of Entrepreneur
 - b) Venture Capital
 - c) Functions of DIC
 - d) Entrepreneurial Motivation

SECTION – II

- Q.7** Explain the role and importance of the following government agencies for development of entrepreneurship. (20)
- i) SISI ii) SIDCO
- Q.8** Prepare a business plan for the setting up of Package Drinking Water unit in your area? (20)
- Q.9** Entrepreneurship plays an important role in economic development of a country? Do you agree with this statement? Justify. (20)

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : SUMMER : 2026
SUBJECT: BASIC PYTHON PROGRAMMING

Day : Wednesday
Date : 13/05/2026

S-26302-2026

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** List various data types supported by python and also describe type conversion among them. (12)
- Q.2** Describe working of decision making statements in python. Also comment how it is different from Java. (12)
- Q.3** What do you know about list and tuple in python? List and describe various methods of list. (12)
- Q.4** Why functions are needed in programming? Explain how functions are defined and used in python. (12)
- Q.5** Explain mechanism of exception handling in python with example. (12)
- Q.6** List all arithmetic operators in python and describe behaviour of each operator when various data types are used with them. (12)
- Q.7** Write short notes (**ANY THREE**): (12)
- a) for loop
 - b) set type
 - c) with clause
 - d) Global variables

SECTION - II

- Q.8** Design a class person to store name and date of birth (DOB) of a person. Create 5 person objects for reading data form user and print list of persons who are eligible to vote. (20)
- Q.9** Write a python function which accepts list of numbers as parameter and returns dictionary with number in list as key and square of number as value. Use it to demonstrate working of function. Also add code to handle exceptions while reading input data. (20)
- Q.10** a) Write a python program to read a file containing real numbers and calculate average of them. Accept file name from user and make sure the specified file exists. (10)
- b) Write a python program to read a string from user and count occurrences of each character present in the string. Do not make use of built in count function. (10)