

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : WINTER : 2024
SUBJECT: INFORMATION SECURITY: INFORMATION SECURITY CONCEPTS

Day : Thursday
Date : 12/12/2024

W-26306-2024

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** Explain the following terms: (12)
i) Fire protection ii) Fire suppression and iii) Power protection
- Q.2** What is Physical Security? Explain the facilities required for the Physical Security. (12)
- Q.3** Explain in detail Data Security Identification and Authentication. (12)
- Q.4** Explain the Role of AI in cyber security. (12)
- Q.5** Explain secure coding techniques used in web application security. (12)
- Q.6** What is CIA? Explain in detail. (12)
- Q.7** Write short notes on **ANY TWO** of the following: (12)
a) Email security
b) File permissions in UNIX
c) WLAN security

SECTION – II

- Q.8** What is cloud security? Explain various best Practices used in cloud security. (20)
- Q.9** Explain with example, continuous security Testing and Assessment. (20)
- 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. (20)

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : WINTER : 2024
SUBJECT: DATA ANALYSIS: DATA ANALYSIS USING EXCEL

Day : Thursday
Date : 12/12/2024

W-26305-2024

Time : 02:00 PM-05:00 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 IF, AND, OR logical functions in Excel. Provide an example of how they can be combined to perform conditional analysis. (12)
- Q. 2** Discuss the role of the Data Cleaning process in data analysis. How can Excel's tools such as Remove Duplicates and Text to Columns assist in cleansing a dataset? (12)
- Q. 3** What are the key differences between Charts and Sparklines in Excel? When would you use Sparklines over Charts? (12)
- Q. 4** Describe how Pivot Charts can be used to present data visually. What are the advantages of using Pivot Charts along with Pivot Tables? (12)
- Q. 5** Explain how to use the INDEX and MATCH functions together in Excel for advanced lookups. Provide a practical example. (12)
- Q. 6** Define the What-If Analysis tool in Excel. Explain how Goal Seek and Data Tables can be used for decision-making. (12)
- Q. 7** Write short notes on **ANY THREE** of the following: (12)
- a) Text to Columns
 - b) Data Protection in Excel (Password, Worksheet Protection)
 - c) Working with Named Ranges
 - d) Slicer and Time line in Excel

SECTION – II

- Q. 8** Explain following functions with example of each: (20)
- i) Left
 - ii) Right
 - iii) MID
 - iv) Find
 - v) LEN

P. T. O.

Q. 9

What do you mean by Cells and Cell address in Excel sheet? Explain the concept of spread sheet. Differentiate between Absolute Cell and Relative Cell referencing. (20)

Q.10

Explain the following :

(20)

- a) Data types in Excel
- b) Freeze Panes
- c) Comment and Notes in Excel sheet
- d) Protecting Cells
- e) Pivot Table

* * * * *

121224-e-iom-kolhapur

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

B.C.A. Sem-V : WINTER : 2024

SUBJECT: INFORMATION SECURITY: INFORMATION SECURITY CONCEPTS

Day : Thursday

Date : 12/12/2024

W-26306-2024

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** Explain the following terms: (12)
i) Fire protection ii) Fire suppression and iii) Power protection
- Q.2** What is Physical Security? Explain the facilities required for the Physical Security. (12)
- Q.3** Explain in detail Data Security Identification and Authentication. (12)
- Q.4** Explain the Role of AI in cyber security. (12)
- Q.5** Explain secure coding techniques used in web application security. (12)
- Q.6** What is CIA? Explain in detail. (12)
- Q.7** Write short notes on **ANY TWO** of the following: (12)
a) Email security
b) File permissions in UNIX
c) WLAN security

SECTION – II

- Q.8** What is cloud security? Explain various best Practices used in cloud security. (20)
- Q.9** Explain with example, continuous security Testing and Assessment. (20)
- 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. (20)

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

B.C.A. Sem-V : WINTER : 2024

SUBJECT: DOT NET PROGRAMMING USING C#

Day : Saturday
Date : 07/12/2024

W-26303-2024

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 Interface with example. | (12) |
| Q. 2 | Explain abstract class with example. | (12) |
| Q. 3 | What is Inheritance? Explain in detail. | (12) |
| Q. 4 | Explain operator overloading with example. | (12) |
| Q. 5 | Explain components of ADO. Net. | (12) |
| Q. 6 | Explain exception handling with example. | (12) |
| Q. 7 | Write a short note on any TWO of the following: | (12) |
| | a) Enumeration | |
| | b) Out Parameters | |
| | c) Boxing and unboxing | |

SECTION-II

- | | | |
|-------|--|------|
| Q. 8 | Write ADO. Net code to insert and retrieve the data from the student table (rno, name, course) | (20) |
| Q. 9 | Write a code to create and use the custom exception. | (20) |
| Q. 10 | Write a program that create two threads one to print even numbers and other to print odd number between 1 to 50. | (20) |

* * * * *

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)
B.C.A. Sem-V : WINTER : 2024
SUBJECT: BASIC PYTHON PROGRAMMING

Day : Thursday
Date : 05/12/2024

W-26302-2024

Time : 02:00 PM-05:00 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** Which are the data types supported by python to handle numbers? Briefly describe each. (12)
- Q.2** List and describe iterative statements in python. (12)
- Q.3** What is exception? List standard python exceptions and also describe when each will be raised. (12)
- Q.4** Illustrate how python supports variable number of arguments to function with example. (12)
- Q.5** What do you know about List and tuple? Describe when to use each with suitable example. (12)
- Q.6** Describe core objects and functions in python. (12)
- Q.7** Write short notes (**ANY THREE**): (12)
- a) Iterators
 - b) Lambda expressions
 - c) Range function
 - d) Function decorators

SECTION - II

- Q.8** Write a python program to accept two matrices from user and perform addition of them. Print original matrices and resulted matrix obtained from addition. Also write code to perform necessary validations. (20)
- Q.9** Design a class Fraction, to represent fractional number. It has two attributes numerator and denominator. Provide methods to assign and access fraction. Also perform addition and subtraction operations on it. (20)
- Q.10** a) Write a function which returns m^{th} term of Fibonacci series, where m is passed as parameter to function. By using this function print first n -terms of Fibonacci series, accept n as user input. (10)
- b) Write a python program to read data from file. Also write code to find number of characters, words and lines in the file. (10)

* * * * *

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2022 COURSE)

B.C.A. Sem-V : WINTER : 2024

SUBJECT: ENTREPRENEURSHIP DEVELOPMENT

Day : Tuesday
Date : 10/12/2024

W-26304-2024

Time : 02:00 PM-05:00 PM
Max. Marks : **60**

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 characteristics of entrepreneur. (15)
- Q.2** Describe the steps involved in business opportunity identification and selection? (15)
- Q.3** What is business plan? Describe the contents of good business plan. (15)
- Q.4** Which are the different sources of finance available for the entrepreneur in India? Discuss. (15)
- Q.5** What do you mean by EDP? Explain the need and objective of EDP. (15)
- Q.6** Write short notes on any **THREE**: (15)
- a) SISI
 - b) Functions of DIC
 - c) Types of finance
 - d) Qualities of entrepreneur

SECTION - II

- Q.7** What do you mean by entrepreneurial motivation? Explain the various internal and external factors motivating entrepreneurs. (20)
- Q.8** Entrepreneurship plays an important role in economic development of a country. Do you agree with this statement? Justify. (20)
- Q.9** Explain the different types of schemes that are offered under the Government of India to entrepreneurs. (20)

* * * *