



12425

B.Com. IV Semester (Old) Degree Examination, Sept./Oct. 2023

COMPUTER APPLICATIONS IN BUSINESS – II
Multimedia Internet Tools and Programming in C

Time : 3 Hours

Max. Marks : 80

Instruction : All Sections are compulsory.

SECTION – A

I. Answer **any ten** of the following :

(10×2=20)

- 1) Define multimedia.
- 2) Define animation.
- 3) Define browser.
- 4) Expand LAN, WAN, MAN.
- 5) Expand JPEG and JPG.
- 6) Define C-Token.
- 7) What is algorithm ?
- 8) List any four search engines.
- 9) Define data type.
- 10) Write the syntax for if-else statement.
- 11) What is an array ?
- 12) What is recursion ?

SECTION – B

II. Answer **any three** of the following :

(3×5=15)

- 1) Write a short note on animation.
- 2) Define an E-mail. Write any 6 uses of E-mail.
- 3) Write a C program to find factorial of a given number.
- 4) Explain basic structure of C-program.
- 5) Explain the switch statement with example.

P.T.O.



SECTION – C

III. Answer **any three** of the following :

(3×15=45)

- 1) What is operator ? Explain in brief.
- 2) Write a note on Internet. Give the advantages, disadvantages and uses of Internet.
- 3) Discuss the scope of applications of multimedia.
- 4) Explain the looping statements with syntax and example.
- 5) Write a short note on :
 - a) Multimedia
 - b) Array
 - c) Search Engine.



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NEP

B.C.A. IV Semester Degree Examination, Sept./Oct. 2023

COMPUTER APPLICATIONS

DSC11 : Object Oriented Concepts Using JAVA

Time : 3 Hours

Max. Marks : 60

- Instructions :** 1) Part – A : All questions are **compulsory**.
2) Part – B : Answer **any five** questions.

PART – A

I. Answer **all** the following :

(5×2=10)

- a) Mention the types of variable in Java.
- b) What is type casting ? Give an example.
- c) How do you declare an array in Java ?
- d) What is constructor ?
- e) Mention the java access modifiers.

PART – B

II. Answer **any five** of the following :

(5×10=50)

- 1) a) Explain this keyword in Java. 5
b) List the differences between constructor and method in Java. 5
- 2) a) Explain Java garbage collection. 5
b) Explain Java string. 5
- 3) a) Explain types of inheritance. 5
b) Explain final keyword in Java. 5
- 4) a) Explain abstract class in Java. 5
b) Explain interface in Java. 5
- 5) a) List the differences between abstract class and interface. 5
b) What is Java package ? Write down the advantages of Java package. 5
- 6) a) Explain the life cycle of a thread. 5
b) Write a Java program for creating multiple catch blocks. 5
- 7) a) Write a Java program to implement interface using extends keyword. 5
b) Write a Java program to represent ArrayList class. 5

Out of
course solving

Lab
program



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NEP
B.C.A. IV Semester Degree Examination, September/October 2023
COMPUTER APPLICATION
Software Engineering

Time : 3 Hours

Max. Marks : 60

- Instructions :** 1) Part – A : All questions are **compulsory**.
2) Part – B : Answer **any five** questions.

PART – A

I. Answer **all** the following questions.

(5×2=10)

- 1) What is software engineering ?
- 2) What is software process ? Mention Fundamental activities of software process.
- 3) Define functional and non-functional requirements.
- 4) What is Risk Analysis ?
- 5) What are three advantages of explicitly designing and documenting software architecture ?

PART – B

II. Answer **any five** of the following.

(5×10=50)

- I) 1) Discuss essential attributes of good software. 5
- 2) Describe how software requirements are documented. State the importance of documentation. 5
- II) 1) Compare and contrast waterfall model and spiral model. 5
- 2) Discuss Agile method in detail. 5
- III) 1) Explain the various steps involved in risk management. 5
- 2) Assume that you are developing a online railway reservation system. Prepare the SRS document for the system. 5

P.T.O.



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NEP
B.C.A. IV Semester Degree Examination, September/October 2023
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P.T.O.



- IV) 1) Discuss professional and ethical responsibilities with respect to software engineering. 5
- 2) What do you mean by critical system ? Explain types of critical system. 5
- V) 1) Write a short note on functional and non-functional requirements. 5
- 2) What are advantages and disadvantages of object model ? 5
- VI) 1) Explain the client-server model in detail. 5
- 2) Explain the meaning of risk management. 5