UG–C–2387 **BCA–13X**

U.G. DEGREE EXAMINATION — DECEMBER, 2023.

Computer Applications

Third Year

TCP/IP PROGRAMMING

Time : 3 hours Maximum marks : 70

PART A — (3 × 3 = 9 marks)

Answer any THREE questions out of Five questions in 100 words

All questions carry equal marks.

1. What is internet addressing?

2. What is IP header format?

3. List out the features of TCP?

4. Define UDP Header.

5. What is IP address?

PART B — ($3 \times 7 = 21$ marks)

Answer any THREE questions out of Five questions in 200 words

All questions carry equal marks.

6. Explain about DNS message format.

7. Brief about IP routing.

8. Write about TCP segment format.

9. Write the characteristics of UDP?

10. What is internet multi casting? Explain.

PART C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions out of Seven questions in 500 words.
All questions carry equal marks.

11. Discuss in detail about TCP/IP stack.

12. What do you mean by IP subnet addressing? Explain.

13. Explain in detail about Transmission Control Protocol.

14. Elaborate Client server model of interaction in detail.

15. What is Asynchronous Transfer mode and write its functions.

16. Explain formats and classes for Internet protocols.

17. Describe the overview of TCP/IP over ATM networks.

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UG-C-2388 **BCA–14X**

U.G. DEGREE EXAMINATION — DECEMBER, 2023.

Computer Applications

Third Year

C++ AND OBJECT ORIENTED PROGRAMMING

Time : 3 hours Maximum marks : 70

PART A — ($3 \times 3 = 9$ marks)

Answer any THREE questions out of Five questions in 100 words.
All questions carry equal marks.

1. What do you mean by a token?

2. Brief about control structure in C++.

3. What is an array?

4. Write a C++ program to calculate area circle.

5. What is a class? Give example.

PART B — ($3 \times 7 = 21$ marks)

Answer any THREE questions out of Five questions in 200 words.
All questions carry equal marks.

6. What is the need of data types in C++? Describe different data types along with their representations and size in C++.

7. Write a C++ program for matrix addition.

8. Explain the concepts of structures with suitable examples.

9. Write a program in C++ that prints the sum of digit of a given number.

10. Write a note on Friend Functions.

PART C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions out of Seven questions in 500 words.
All questions carry equal marks.

11. Describe the storage classes in detail.

12. Explain about type conversions with suitable examples.

13. Explain the exclusive operators of C++ with example.

14. Explain the different types of constructors in C++.

15. Explain in detail about benefits and applications of object oriented programming.

16. Write a C++ program demonstrating use of the pure virtual function with the use of base and derived classes.

17. What does inheritance means in C++? What are different forms of inheritance? Give an example of each.

UG–C–2390 **BCA–16X**

U.G. DEGREE EXAMINATION — DECEMBER 2023

Computer Applications

Third Year

INTRODUCTION TO INTERNET PROGRAMMING

Time : 3 hours Maximum marks : 70

PART A — ($3 \times 3 = 9$ marks)

Answer any THREE questions out of Five questions in 100 words.

All questions carry equal marks.

1. What is Byte Code?

2. What is a Constructor?

3. What are local variables?

4. What is a package?

5. Give the general form of a class.

PART B — $(3 \times 7 = 21$ marks)

Answer any THREE questions out of Five questions in 200 words.

All questions carry equal marks.

6. Explain the features of Java.

7. Demonstrate what are Jump statements? Give an example for each.

8. Write a java program to implement multilevel inheritance concept.

9. Discuss the Layout Managers in java.

10. Write a java program to find the factorial of the given number.

PART C — $(4 \times 10 = 40$ marks)

Answer any FOUR questions out of Seven question in 500 words.

All questions carry equal marks.

11. What is an operator? Explain type of operators in Java with example programs.

12. What is an Array? Explain types of arrays in Java with example.

13. What are Java Selection Statements? Give an example to each one.

14. Write a java program to create own exception for Negative Value Exception if the user enter negative value.

15. Discuss about Source, Event and Listeners in event handling

16. Write a Java program to implement inter thread communication.

17. Discuss about the static, final keywords with an example.

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UG–C-2391 **BCA–17X**

U.G. DEGREE EXAMINATION — DECEMBER, 2023.

Computer Application

Third Year

INTRANET ADMINISTRATION

Time : 3 hours Maximum marks : 70

PART A — ($3 \times 3 = 9$ marks)

Answer any THREE questions out of Five questions in 100 words.

All questions carry equal marks.

1. Define Intranet.

2. What is Firewall?

3. What is Web Graphics?

4. Why do we need protocol?

5. Write about SOCKS.

PART B — ($3 \times 7 = 21$ marks)

Answer any THREE questions out of Five questions in 200 words.

All questions carry equal marks.

6. Explain how Intranet Works and give the advantages of Intranet

7. Write a short notes on security tools of Intranet.

8. How will you configure intranet – Explain.

9. Write a short notes on the Communication/Cum Mail Protocols of Intranet.

10. Write a short notes on Firewalls in Intranet.

PART C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions out of Seven questions in 500 words.

All questions carry equal marks.

11. Explain the types and applications of Intranet.

12. Explain in detail about the hardware and software selection of computing infrastructure for Intranet.

13. Explain the Intranet authoring and managing tools in detail.

14. What are the types of Intranet Protocols? Explain in detail.

15. Write about the threads and security solutions of Intranet.

16. Explain in detail about the Web Based Tools in Intranet.

17. Explain the latest protocols and protocols for E-Commerce.

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