UG–C–2365 BSCS–15X

U.G. DEGREE EXAMINATION — DECEMBER, 2023.

Computer Science

Third Year

DATA COMMUNICATIONS AND NETWORKING

Time : 3 hours Maximum marks : 70

PART A — ($3 \times 3 = 9$ marks)

Answer any THREE questions.

1. What is Network? What are the benefits of Network?

2. Write two advantages and disadvantages of Star Topology.

3. What factors affect data Transmission?

4. Write short note Repeater.

5. List the seven layers of OSI Model.

PART B — ($3 \times 7 = 21$ marks)

Answer any THREE questions.

6. What are the components of data communication?

7. Discuss the Addressing mechanism of protocol.

8. Explain the functions of OSI Reference models.

9. Write short note on twisted pair cable.

10. What do you mean by two layer switches?

PART C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions.

11. Explain about data flow in detail.

12. Describe about the types topology in detail.

13. What do you mean by layered architecture? Elaborate.

14. Explain about TCP/IP reference model.

15. Explain the uses of Internet.

16. What do you mean by IPv4 address? Explain.

17. Explain about data communication and its characteristics.

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UG–C–2366 BSCS–16X

U.G. DEGREE EXAMINATION — DECEMBER, 2023.

Computer Science

Third Year

INTRODUCTION TO OPERATING SYSTEMS

Time : 3 hours Maximum marks : 70

PART A — ($3 \times 3 = 9$ marks)

Answer any THREE questions.

1. What is Kernel?

2. What is process control block?

3. List the advantages of Multiprocessor systems.

4. What is Deadlock?

5. What is Paging?

PART B — ($3 \times 7 = 21$ marks)

Answer any THREE questions.

6. Write Short notes on History of Operating Systems.
7. Explain Operating System Structure.
8. Write short note on Race conditions.
9. Explain Semaphores with examples.
10. What is Inter–process communication? How it can be implemented?

PART C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions.

11. Discuss about the History of Operating System.
12. Give an Elaborate note on Operating System concepts.
13. Write in detail about Inter process communication?
14. Discuss about deadlock detection and recovery.
15. Explain about Multi programming.
16. Write an elaborate note on File management.
17. Write short note on
    (a) Round robin scheduling.
    (b) Priority Scheduling.

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UG–C–2368 BSCS–18X

U.G. DEGREE EXAMINATION — DECEMBER, 2023.

Computer Science

Third Year

HTML AND WEB DESIGN

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 are the uses of HTML.
2. Write a HTML code for displaying an image in a web page and explain.
3. Write a HTML code for creating a class time table using <Table> tag.
4. What are search engines and explain its types?
5. Write a HTML code for displaying Text and Image in a single page.

PART B — $(3 \times 7 = 21$ marks)

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

All questions carry equal marks.

6. Expand URL and explain its parts and types.

7. Write a HTML code for setting background images for a page and explain.

8. Create a table and differentiate cell spacing and cellpadding.

9. Write the steps involved in creating Edit menu using HTML Editor.

10. Write HTML text formatting tags with examples.

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 about the overview of HTML in detail.

12. Write a HTML code to explain the manipulation of Images.

13. Write a HTML code for nesting tables.

14. Create File menu using HTML Editor.

15. Write a note on subscriptions in detail.

16. What are the attributes involved in <P> tag and <Img> tag? Explain with examples.

17. Explain advanced text formatting tags with example.

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UG–C–2369 BSCS–19X

U.G. DEGREE EXAMINATION — DECEMBER, 2023.

Computer Science

Third Year

INTRODUCTION TO SOFTWARE ENGINEERING

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 Software Engineering and explain the characteristics of Software.

2. What is the Role of a System Analyst?

3. Write the basic concepts of Project scheduling.

4. Explain Software prototyping.

5. Write short note on Test case design.

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 Software product and its components.

7. Write a note on Project decomposition techniques.

8. Discuss about Quality Assurance Activities.

9. Write about Specification modeling and Information flow.

10. Explain Black box testing in detail.

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 any three Software process models in detail.

12. Give a detailed note on Project Management Concepts.

13. Elaborate Software Configuration Management.

14. Discuss about the design concepts of software.

15. Write about Testing Strategies wit example.

16. What are the Phases of Software development and explain with clear diagrams.

17. Explain about Software Formal Technical Reviews and its advantages.

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