LOGANATHA NARAYANASAMY GOVT. COLLEGE (Autonomous), PONNERI – 601 204

NOVEMBER - 2020 SEMESTER EXAMINATIONS

V SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **18UFE5B** Title of the Paper : **Elective - Internet and Its applications**

DATE **: 06.01.2021 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. What is ARPANET?
2. Define browser portability.
3. Define hyperlink.
4. What is the procedure for offline browsing?
5. What is the common procedure for e-mail attachment?
6. What is BCC in e-mail?
7. What is HTML?
8. Write the structure of HTML.
9. What are the types of commercial websites?
10. What is E-Advertisement?
11. What is web 2.0?
12. What is E-Marketing?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Write short notes on history of World Wide Web.
14. What is the use of FTP and how it works?
15. Explain the how to send and receive the attachments of an e-mail.
16. Discuss the various tags used in HTML with examples.
17. Explain with examples how smart cards are used in the internet.
18. Write Short notes on various web browsers.
19. Create a HTML program for working with unordered list.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Compare and Contrast machine language, assembly language and high level language with examples.
21. Explain the procedure to search in the internet and also about the customization of settings in the browser.
22. Explain the following e-mail common tasks a) E-mail configuration b) Receiving and sending an e-mail c) Reading an e-mail
23. Explain the various tags for creating and formatting the table in HTML with examples.
24. Explain in detail with examples for e-wallet programs.

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LOGANATHA NARAYANASAMY GOVT. COLLEGE (Autonomous), PONNERI – 601 204

NOVEMBER - 2020 SEMESTER EXAMINATIONS

I SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **18UFM1A** Title of the Paper : **Digital Electronics And Micro Processors**

DATE **: 04.01.2021 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Convert the octal number [234]10 to binary number.
2. Draw the logic diagram for the expression Y = A + B
3. What are the Universal Gates?
4. Explain the role of Decoder.
5. What is a Flip-Flop?
6. Define Microcomputer.
7. Define memory mapped I/O.
8. Write a note on BCD code.
9. Convert the BCD code 01010111 to HEX code.
10. What is an interrupt?.
11. Define subroutine.
12. Define the role of ALE.

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Explain the steps used to convert a decimal number into binary and hexadecimal numbers.
14. Explain about the Multiplexer with diagram.
15. Discuss the on Addressing Modes give example.
16. Write a short note on counters and time delays.
17. Briefly about the vectored interrupt with example.
18. Write short note on BCD codes with example.
19. Write an assembly language program to move the content of memory from location Xx60 to xx50.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Explain in detail about Universal gate with example.
21. Discuss about the J-K flip flop with diagram
22. Draw the architecture of 8085 and explain its functions.
23. Describe about the counter design with time Delay.
24. Briefly explain the functions of 8085 interrupt.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

II SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **18UFM2A** Title of the Paper : **Programming In C**

DATE **: 04.01.2021 AN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Mention any four features of C language.
2. Differentiate between the constant and variable.
3. Write down the use of break statement.
4. Write a note on String.
5. List out the logical operators in C.
6. How is a string stored in an array?
7. Define: "Array".
8. What is a Bitwise operator in C.
9. What do you mean by pointer variable? Give example.
10. What is a Recursion?
11. Distinguish between an array and structure.
12. Give the syntax for continue statement.

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Summarize the basic data types in C language with examples.
14. Compare the do while and while statement in C.
15. What is an auto variable? How is it declared and initialized?
16. Where are structures useful in C? Explain.
17. Elaborate the limitation of array of pointers to strings.
18. Differentiate between the Structure and Unions.
19. Why do we use command line arguments in C?

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Discuss the types of operators supported by C with examples.
21. Illustrate the different forms of if statements in C.
22. Compare the extern, static, register variable in Storage Classes with Example.
23. Explain how structures are defined in C and how they are passed to function.
24. Outline the steps to create and open a file in C.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

III SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **18UFM3A** Title of the Paper : **Programming in C++ Using Data Structures**

DATE **: 31.12.2020 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. What is a function?
2. What is a keyword?
3. Define : Operator overloading.
4. What is a destructor?
5. Define Data Structure. List the operations performed by data structure.
6. Differentiate between list and array.
7. What is Infix to postfix conversion and give the example?
8. What is a Circular Queue?
9. Define directed tree and forest.
10. What is meant by a subgraph?
11. Define pointer.
12. Define Stack. Write any two applications of Stack.

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Explain the structure of C++ program.
14. What is function overloading? Write a C++ program to explain function overloading.
15. Explain the various file stream classes needed for file manipulations in C++.
16. Explain the concept of stack with illustrations.
17. Explain the singly linked list and its operations.
18. Explain classes and objects with examples.
19. Describe the types of graphs?

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Discuss the Various expressions available in C++.
21. Explain multiple inheritances with an example program.
22. Discuss the procedure for handling errors during file operations.
23. (a) Distinguish between singly linked list and doubly linked list

    (b) Explain the procedure to insert and delete a node in a singly linked list.
24. Explain the Shortest Path Algorithm with an example.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

IV SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **18UFM4A** Title of the Paper : **Programming in JAVA**

DATE **: 31.12.2020 AN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Write the features of java.
2. What are variables?
3. Define class.
4. Define array.
5. What are interfaces?
6. What is thread priority?
7. What is applet?
8. What are exceptions?
9. Define fonts.
10. Define menu.
11. Define java tokens.
12. What are AWT classes?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Write the concepts of oop's.
14. Explain about string buffer class.
15. Explain about packages.
16. Write the concept of streams.
17. Write note on java utility classes.
18. What are data types? Explain.
19. Explain about applet life cycle.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Explain about type casting.
21. Explain about overriding methods.
22. Explain about life cycle of a thread.
23. Explain about random access files.
24. Discuss about AWT working with windows, graphics and text.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

V SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **18UFM5A** Title of the Paper : **Operating Systems**

DATE **: 24.12.2020 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Define operating system.
2. What are virtual machines?
3. What is synchronization?
4. What is dead lock?
5. What is address binding?
6. What are overlays?
7. Define virtual memory.
8. What is thrashing?
9. Define Linux.
10. What is kernel?
11. What are CPU schedulers?
12. What do you mean semantics?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Explain about scheduling criteria.
14. Explain the methods for handling dead-locks.
15. Write note on fragmentation.
16. Write note on free spaces managements.
17. Write the overview of I/O hard wares.
18. Write note on process scheduling.
19. Write note on file systems.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Explain about scheduling algorithms.
21. Explain about semaphores.
22. Explain about dynamic loading and linking.
23. Explain about page replacement algorithms.
24. Discuss about transforming I/O requests to hardware operations.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

V SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code :**18UFM5B** Title of the Paper : **Computer Organization and Architecture**

DATE **: 29.12.2020 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. What is Instruction cycle?
2. Define Interrupt.
3. What is Register? Give example.
4. What is Assembler?
5. What is Address sequencing?
6. List any two shift micro operation instructions.
7. Define the function of ALU.
8. What is Stack?
9. Define Pipeline.
10. Expand RISC.
11. What is I/O interface?
12. What is I/O processor?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Explain about memory reference instructions.
14. Discuss about Control memory.
15. Write short notes on Subroutines.
16. Discuss about Register transfer.
17. Explain RISC pipeline with example.
18. List and explain the basic principles of peripheral devices.
19. Write short notes on Modes of transfer.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Explain the functions of Timing and control unit.
21. Explain the arithmetic and logical operations with suitable assembly language programming.
22. Discuss in detail about bus and memory transfer.
23. Explain various addressing modes with example.
24. Describe the functions of Direct memory access.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

V SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code:**18UFM5C** Title of the Paper:**Database Management System with Visual Basic**

DATE **: 02.01.2021 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. What is DBMS?
2. What do you mean by data dictionary?
3. What clause will you use for sorting the output?
4. What is data privacy?
5. What is an event?
6. What do you mean by variant?
7. What is a static array?
8. How will you find the length of a given string?
9. What is ODBC?
10. What is the purpose of ADODC?
11. What is a BLOB?
12. What do you mean by system defined function?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. What are the advantages of DBMS approach?
14. Write about aggregation function in SQL.
15. Write about any 5 form properties.
16. Discuss on MDI form.
17. Discuss on data control.
18. Explain second normal form.
19. Write about user defined function.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Discuss on class diagram details.
21. Discuss on Development stages.
22. Discuss on command button.
23. Write about loops in VB.
24. Create a student database and design a form to add, modify and remove a student record.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

V SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFE5B** Title of the Paper : **Elective-Open Source Technologies**

DATE **: 06.01.2021 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Define: "Open Source".
2. What is Linux?
3. What do you mean by free software?
4. Write the concept of file system.
5. List out the standard files in Linux.
6. What is the use of Vi Editor?
7. Write a note on Apache.
8. How to stopping and restarting Apache?
9. Mention any four advantages of MySQL.
10. Write the purpose of USE command.
11. What is PHP scripting?
12. Define: "Cookies".

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Distinguish between the open sources Vs. commercial software.
14. List out the Linux distributions and example it.
15. Explain the investigating and managing processes in Linux.
16. Write a short note on network client.
17. How to modifying the default configuration in Apache?
18. How will you create database and tables in MYSQL? Explain.
19. Write down the general syntactic characteristics in PHP.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Discuss about the Linux Kernel in detail.
21. Illustrate the Linux security model with neat diagram.
22. Explain the consider allowing access to local documentation.
23. Outline the loading and dumping a database in MYSQL with example.
24. How to insert, select, delete and update records in MYSQL with PHP? Explain.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

V SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFE5C** Title of the Paper : **Elective - Internet and Its applications**

DATE **: 06.01.2021 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. What is ARPANET?
2. Define browser portability.
3. Define hyperlink.
4. What is the procedure for offline browsing?
5. What is the common procedure for e-mail attachment?
6. What is BCC in e-mail?
7. What is HTML?
8. Write the structure of HTML.
9. What are the types of commercial websites?
10. What is E-Advertisement?
11. What is web 2.0?
12. What is E-Marketing?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Write short notes on history of World Wide Web.
14. What is the use of FTP and how it works?
15. Explain the how to send and receive the attachments of an e-mail.
16. Discuss the various tags used in HTML with examples.
17. Explain with examples how smart cards are used in the internet.
18. Write Short notes on various web browsers.
19. Create a HTML program for working with unordered list.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Compare and Contrast machine language, assembly language and high level language with examples.
21. Explain the procedure to search in the internet and also about the customization of settings in the browser.
22. Explain the following e-mail common tasks a) E-mail configuration b) Receiving and sending an e-mail c) Reading an e-mail
23. Explain the various tags for creating and formatting the table in HTML with examples.
24. Explain in detail with examples for e-wallet programs.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

VI SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFE6F** Title of the Paper : **Elective - Software Engineering**

DATE **: 02.01.2021 AN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Define software engineering.
2. What are other planning activities?
3. What do you know about software cost estimation techniques?
4. List out the major PSL aspects.
5. Define fundamental design concept.
6. What do you meant by modules?
7. Define data encapsulation.
8. How to define user defined data types?
9. Identify the features of debugging.
10. State the usage of static analysis.
11. Define design techniques.
12. What are source code metrics?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Discuss about quality and productivity factors.
14. Write notes on PSL/PSA.
15. Explain coupling and cohesion.
16. Write brief notes on type checking.
17. Illustrate on unit testing.
18. List out and explain the activities in planning.
19. Write down the issues in concurrency mechanisms with an example.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Write detailed notes on Size Factors.
21. Illustrate on Software Cost Factors.
22. List out and explain the types of design notations with neat diagram.
23. Elaborate on structured coding techniques.
24. Explain the issues in enhancing maintainability during development.

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NOVEMBER 2020 SEMESTER EXAMINATIONS

VI SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFE6G** Title of the paper : **Elective - Data Minining and Ware Housing**

DATE **: 06.01.2021 AN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Define Data Warehousing.
2. What is KDD?
3. What do you mean by Preprocessing?
4. What is Data integration?
5. Write the use of Association mining.
6. List any two Data mining techniques.
7. Define Back propagation.
8. What is Prediction?
9. What do you mean by Cluster Analysis?
10. Define Temporal mining.
11. Write any two application areas of Data mining.
12. What is Clustering?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Discuss about Data mining and its issues.
14. Discuss about Data Integration.
15. Explain the basic concept of Multilevel Dimensional Association Rules.
16. List the issues regarding classification and prediction.
17. Describe the features of Spatial mining.
18. Bring out the Data mining tasks.
19. Write short notes on Decision tree induction.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Discuss the principles of Temporal and Heterogeneous Databases.
21. Explain the concept of Data Discretization.
22. Describe the principles of Apriori algorithm in detail.
23. Explain the concepts of Bayesian classification with example.
24. Explain the principles of Hierarchical clustering methods.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

I SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFM1B** Title of the Paper : **Digital Electronics And Micro Processors**

DATE **: 04.01.2021 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Convert the octal number [234]10 to binary number.
2. Draw the logic diagram for the expression Y = A + B
3. What are the Universal Gates?
4. Explain the role of Decoder.
5. What is a Flip-Flop?
6. Define Microcomputer.
7. Define memory mapped I/O.
8. Write a note on BCD code.
9. Convert the BCD code 01010111 to HEX code.
10. What is an interrupt?.
11. Define subroutine.
12. Define the role of ALE.

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Explain the steps used to convert a decimal number into binary and hexadecimal numbers.
14. Explain about the Multiplexer with diagram.
15. Discuss the on Addressing Modes give example.
16. Write a short note on counters and time delays.
17. Briefly about the vectored interrupt with example.
18. Write short note on BCD codes with example.
19. Write an assembly language program to move the content of memory from location Xx60 to xx50.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Explain in detail about Universal gate with example.
21. Discuss about the J-K flip flop with diagram
22. Draw the architecture of 8085 and explain its functions.
23. Describe about the counter design with time Delay.
24. Briefly explain the functions of 8085 interrupt.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

II SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFM2B** Title of the Paper : **Programming In C**

DATE **: 04.01.2021 AN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Mention any four features of C language.
2. Differentiate between the constant and variable.
3. Write down the use of break statement.
4. Write a note on String.
5. List out the logical operators in C.
6. How is a string stored in an array?
7. Define: "Array".
8. What is a Bitwise operator in C.
9. What do you mean by pointer variable? Give example.
10. What is a Recursion?
11. Distinguish between an array and structure.
12. Give the syntax for continue statement.

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Summarize the basic data types in C language with examples.
14. Compare the do while and while statement in C.
15. What is an auto variable? How is it declared and initialized?
16. Where are structures useful in C? Explain.
17. Elaborate the limitation of array of pointers to strings.
18. Differentiate between the Structure and Unions.
19. Why do we use command line arguments in C?

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Discuss the types of operators supported by C with examples.
21. Illustrate the different forms of if statements in C.
22. Compare the extern, static, register variable in Storage Classes with Example.
23. Explain how structures are defined in C and how they are passed to function.
24. Outline the steps to create and open a file in C.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

III SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFM3B** Title of the Paper : **Programming In C++ And Data Structures**

DATE **: 31.12.2020 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Define the term of Manipulators.
2. What do you mean by Inline Functions?
3. Define Constructors.
4. List out various types of Inheritance.
5. What is an Array?
6. Write usage of File.
7. What is meant by Stack?
8. Define the term of Circular Queue.
9. What is a Tree?
10. Expand DFS and BFS.
11. What is meant by Polymorphism?
12. Define the term of Data Structure.

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Discuss on Friend and Virtual Functions.
14. Distinguish between Constructor and Destructors.
15. Explain Asymptotic notations.
16. Write about Applications of Stack.
17. Discuss on types of Graphs.
18. Compare call by value and call by reference.
19. Discuss on Doubly Linked List and its Operations.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Elaborate about Control structures in C++ with example.
21. Explain various types of Inheritance with a suitable example.
22. Describe about the various file stream operations with an example.
23. Illustrate Applications and Operations on Queues.
24. Exemplify Binary Tree Traversals with example.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

IV SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFM4B** Title of the Paper : **Programming in JAVA**

DATE **: 31.12.2020 AN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Write the features of java.
2. What are variables?
3. Define class.
4. Define array.
5. What are interfaces?
6. What is thread priority?
7. What is applet?
8. What are exceptions?
9. Define fonts.
10. Define menu.
11. Define java tokens.
12. What are AWT classes?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Write the concepts of oop's.
14. Explain about string buffer class.
15. Explain about packages.
16. Write the concept of streams.
17. Write note on java utility classes.
18. What are data types? Explain.
19. Explain about applet life cycle.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Explain about type casting.
21. Explain about overriding methods.
22. Explain about life cycle of a thread.
23. Explain about random access files.
24. Discuss about AWT working with windows, graphics and text.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

V SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFM5D** Title of the Paper : **Operating Systems**

DATE **: 24.12.2020 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Define operating system.
2. What are virtual machines?
3. What is synchronization?
4. What is dead lock?
5. What is address binding?
6. What are overlays?
7. Define virtual memory.
8. What is thrashing?
9. Define Linux.
10. What is kernel?
11. What are CPU schedulers?
12. What do you mean semantics?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Explain about scheduling criteria.
14. Explain the methods for handling dead-locks.
15. Write note on fragmentation.
16. Write note on free spaces managements.
17. Write the overview of I/O hard wares.
18. Write note on process scheduling.
19. Write note on file systems.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Explain about scheduling algorithms.
21. Explain about semaphores.
22. Explain about dynamic loading and linking.
23. Explain about page replacement algorithms.
24. Discuss about transforming I/O requests to hardware operations.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

V SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code:**UFM5E** Title of the Paper:**Database Management System with Visual Programming**

DATE **: 02.01.2021 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. What is DBMS?
2. What do you mean by data dictionary?
3. What clause will you use for sorting the output?
4. What is data privacy?
5. What is an event?
6. What do you mean by variant?
7. What is a static array?
8. How will you find the length of a given string?
9. What is ODBC?
10. What is the purpose of ADODC?
11. What is a BLOB?
12. What do you mean by system defined function?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. What are the advantages of DBMS approach?
14. Write about aggregation function in SQL.
15. Write about any 5 form properties.
16. Discuss on MDI form.
17. Discuss on data control.
18. Explain second normal form.
19. Write about user defined function.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Discuss on class diagram details.
21. Discuss on Development stages.
22. Discuss on command button.
23. Write about loops in VB.
24. Create a student database and design a form to add, modify and remove a student record.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

V SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code :**UFM5F** Title of the Paper : **Computer Organization and Architecture**

DATE **: 29.12.2020 FN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. What is Instruction cycle?
2. Define Interrupt.
3. What is Register? Give example.
4. What is Assembler?
5. What is Address sequencing?
6. List any two shift micro operation instructions.
7. Define the function of ALU.
8. What is Stack?
9. Define Pipeline.
10. Expand RISC.
11. What is I/O interface?
12. What is I/O processor?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Explain about memory reference instructions.
14. Discuss about Control memory.
15. Write short notes on Subroutines.
16. Discuss about Register transfer.
17. Explain RISC pipeline with example.
18. List and explain the basic principles of peripheral devices.
19. Write short notes on Modes of transfer.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Explain the functions of Timing and control unit.
21. Explain the arithmetic and logical operations with suitable assembly language programming.
22. Discuss in detail about bus and memory transfer.
23. Explain various addressing modes with example.
24. Describe the functions of Direct memory access.

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NOVEMBER - 2020 SEMESTER EXAMINATIONS

VI SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFM6C** Title of the Paper : **Computer Network**

DATE **: 24.12.2020 AN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. What is Computer Network?
2. Define Internet.
3. Define Multiplexing.
4. List the different types of Satellites.
5. What is Piggy Backing?
6. Write the function Medium Access layer.
7. What is Routing?
8. What is IP address? Write its format.
9. Define TCP.
10. Define the function of Transport layer.
11. What is ATM?
12. Define the term Burst error.

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Explain the principles of any two Topology with example.
14. Bring out the design issues of Data link layer.
15. Discuss about Channel allocation problem.
16. Write short notes on IP Protocol.
17. Discuss about Transport layer Connection management.
18. Discuss about DNS.
19. Discuss the working principles of Co-axial cable.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Explain the functions of OSI reference model with example.
21. Discuss about Error detection and corrections methods.
22. Discuss the working principles of Simplex and Sliding windows protocol.
23. Explain Multicast routing algorithm with example.
24. Describe the functions of Transport protocol.

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NOVEMBER 2020 SEMESTER EXAMINATIONS

VI SEMESTER – B.Sc., COMPUTER SCIENCE

Paper Code : **UFM6D** Title of the paper : **Web Desigining**

DATE **: 29.12.2020 AN** Time : **3 Hours** Maximum Marks : **75 Marks**

PART – A (10 X 2 = 20 Marks)

Answer any **TEN** Questions from the following

1. Define VB Script.
2. Define VB Script Variables.
3. What is JavaScript?
4. Define Cookies.
5. What is HTML?
6. What is Data grid?
7. What is ASP.NET?
8. Define OLEDB.
9. What is SSL?
10. What is data set class?
11. What is JavaScript Array?
12. What is Err Object in VBScript?

PART – B (5 X 5 = 25 Marks)

Answer any **FIVE** Questions from the following

13. Explain VBScript Comparison Operators.
14. Explain JavaScript Functions.
15. Explain JavaScript HTML DOM.
16. Write a code illustrates how to use both inline code and inline expressions in an ASP.NET page.
17. Explain ASP.NET OLEDB connection.
18. Explain VBScript Math Functions.
19. Mention Repeater in ASP.NET.

PART – C (3 X 10 = 30 Marks)

Answer any **THREE** Questions from the following

20. Explain in detail about VBScript Operators.
21. Explain Error handling in ASP.NET.
22. Explain JavaScript Data Types.
23. Describe JavaScript Window Object.
24. Explain in detail about the structure of an ASP.NET Page.

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