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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc Computer Science Degree Examination, November 2023 BCS5B08 – Computer Organization & Architecture

(2019 Admission onwards)

Time: 2 1/2 hours

Max. Marks: 80

PART – A Answer all questions. Each question carries Two mark. Ceiling -25 Marks

- 1. What is shift register?
- 2. Define instruction cycle.
- 3. Explain computer registers.
- 4. What are major parts of CPU?
- 5. What do u meant by addressing mode?
- 6. What is edge triggering?
- 7. Define memory access time.
- 8. What are different stack operations?
- 9. What is DMA?
- 10. What is virtual memory?
- 11. What do mean by physical address?
- 12. What is hit ratio?
- 13. Write two example of optical storage device.
- 14. What is SIMD?
- 15. What is pipelining?

PART - B

Answer all questions. Each question carries Five marks. Ceiling -35 Marks

- 16. Explain working of ring counter.
- 17. What is cache memory? Explain important cache mapping techniques.
- 18. Describe microprogrammed control.
- 19. Explain general register organization.
- 20. Explain I/O interface.
- 21. Illustrate memory hierarchy.
- 22. Describe instruction pipeline.
- 23. Describe vector processing and vector processors.

PART - C

Answer any two questions. Each question carries Ten marks.

- 24. Explain with an example, the Booth's algorithm for binary multiplication.
- 25. How are instructions are classified? Explain.
- 26. List different addressing modes. Explain in detail.
- 27. Write an essay about Flynn's taxonomy of parallel processing.

 $2 \times 10 = 20 \text{ Marks}$

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc Computer Science Degree Examination, November 2023 BCS5B09 – Java Programming

(2019 Admission onwards)

Time: 2 1/2 hours

Max. Marks: 80

PART – A Answer all questions.

Each question carries Two mark. Ceiling -25 Marks

- 1. Write two significant differences between an applet and a java application program.
- 2. Write one method associated with String Buffer and demonstrate it using java code.
- 3. Demonstrate the ternary operator in java with example.
- 4. Boolean variables in java are useful during comparisons. Justify.
- 5. What is the use of continue in looping in java? Show a sample code.
- 6. Describe the process of running a java program.
- 7. Discuss the relevance of JRE in java programming?
- 8. What is the use of Buffered Stream class in java?
- 9. Demonstrate the use of final keyword in java.
- 10. Discuss the use of Integer wrapper class in java.
- 11. What is the syntax and usage of finalize in java.
- 12. What is the relevance of wait() in java threads?
- 13. Discuss the syntax and usage of draw () val() method in applets?
- 14. Describe the use of gc() method.
- 15. Discuss any one method in Mouse Listener interface.

PART – B Answer all questions. Each question carries Five marks. Ceiling -35 Marks

- Show the use of array and exception mechanism in java if an index outside the limit of array is accessed.
- 17 Explain the different types of constructors in java.
- 18 Demonstrate how sleep() and join() work during multithreading. Write a sample program.
- 19 Discuss method overriding in java with an example.
- Demonstrate how throw and throws work using a sample java program.
- Describe the general structure of a java program and steps in executing the same.
- Develop an applet demonstrating the paint() method.
- Write a java program to declare two rectangle *objects* and find area of each.

PART - C

Answer any two questions. Each question carries Ten marks.

- 24. Demonstrate the use of *super* keyword in dealing with constructor, variable and methods with the help of a java program.
- 25 Demonstrate the use of *interfaces* in java using a sample program.
- 26 'Static class variable in java is shared among all instances of the class, while instance variables have separate values for each object'. Justify. Demonstrate using a program.
- 27 Explain the steps of JDBC connection to a MySQL database and querying the table in the database.

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc Computer Science Degree Examination, November 2023 BCS5B10 - Web Programming Using PHP

(2019 Admission onwards)

Time: 2 1/2 hours

Max. Marks: 80

PART — A Answer all questions. Each question carries Two mark. Ceiling -25 Marks

- Explain onBlur JavaScript event.
- 2 How do we declare variables in PHP.
- 3 Discuss different variable scopes in PHP.
- 4 Differentiate echo and print.
- 5 How do we declare variables in JavaScript:
- 6 What is the specialty of foreach () function in PHP?
- 7 Explain with syntax the mysqli_connect () function.
- 8 What is the specialty of dot (.) operator in PHP.
- 9 Name the DML commands in MySQL and explain anyone.
- 10 What are the features of MySQL?
- 11 What is the use of size attribute in select tag?
- 12. Explain the alert () and prompt () functions in Java Script.
- 13. What is a function? write the syntax of defining a function in PHP. ...
- 14. Differentiate radio button and checkbox in HTML.
- 15. What is a list item marker? Name the list item markers of un-ordered list.

PART — B Answer all questions. Each question carries Five marks. Ceiling -35 Marks

- 16. Briefly explain any four Keyboard events in JavaScript.
- Compare GET and POST method in PHP.
- Briefly explain any four string functions in PHP.
- 19. Briefly explain about different types of links in HTML.
- 20. How do you write user defined functions in JavaScript? Explain with an example.
- 21. Explain the different ways to include the CSS with HTML.
- 22. What is MySQL? Explain the different Data types supported by MySQL.
- 23. What is an Array? Briefly explain different types of Arrays in PHP.

PART- C Answer any two questions. Each question carries Tenmarks.

- 24. What are the different conditional statements and looping statements used in PHP? Explain each with Examples.
- 25. Explain in detail about various types of selectors in CSS.
- 26. How do you create a query in PHP? How do you fetch the dataset? Discuss the three feld functions in detail with example program
- 27. Explain the following.
 - (a) Operators in JavaScript (5)
 - (b) Built in functions in JavaScript (5)

 $2 \times 10 = 20 \text{ Marks}$

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc Computer Science Degree Examination, November 2023 BCS5B11 - Computer Networks

(2019 Admission onwards)

Time: 2hours Max. Marks: 60

PART A

Answer all questions. Each question carries two (2) marks, Ceiling 20 Marks

- Define wired and wireless transmission media. 1.
- Differentiate Data Terminal Equipment and Data Communication Equipment Interfaces. 2.
- List any two interfaces provided by protocols. 3.
- Distinguish Single Bit Errors and Burst errors. 4.
- Define the concept of Interleaving. 5.
- Explain the Line Discipline Concept in the Data Link Layer. 6.
- Describe Datagram Networks. 7.
- Compare and Contrast the Bridge and Repeater 8.
- Define Connection-Oriented and Connection Less Services. 9.
- List any four functions of the Transport Layer in Networks. 10.
- Discuss Recursive and Iterative Queries in Application Layer. 11.
- Expand Post-Office-Protocol. 12.

PART B

Answer all questions. Each question carries Five (5) Marks. Ceiling 30 Marks.

- Illustrate TCP/IP Reference Model with a neat block diagram. 13.
- Enumerate the components of a data communication system. 14.
- Explain the concept of Error-Correcting Codes. List any two error-correcting codes. 15.
- Identify the need for routing algorithms in networks. Discuss any two routing algorithms. 16.
- With the help of a block diagram explain Network Address translation (NAT) process.
- Explain the User Datagram Protocol and Stream Control Transmission Protocol. 17.
- Enumerate various flow characteristics to attain Quality of Service in networks. 18.
- 19.

PART C Answer any one (1) question. Each question carries ten (10) Marks.

- Explain the following 20.
 - i) Bluetooth
- ii) Congestion in networks
- iii) Port Numbers
- iv) Domain Names v) File Transfer Protocol
- 21, Expand the following
 - i) Polling

- ii) IPv4
- iii) Process to Process Delivery
- iv) Trivial File Transfer Protocol

v) Cryptography.

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc Computer Science Degree Examination, November 2023

(Open Course)

BCS5D01 - Office Automation

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

PART A Answer all questions. Each question carries two Marks. Ceiling 20 Marks

- 1. What is the purpose of the "Save As" function in MS Word? How is it different from "Save" function?
- 2. What is the importance of "page break" in Microsoft Word document?
- Define DBMS
- 4. What are the field properties of a table in MS-ACCESS?
- 5. List auto sum (Σ) functions in MS-EXCEL
- 6. What is the significance of a formula in spread sheet cell? Give an example for a simple formula.
- 7. What is auto text tool in Word processor applications?
- 8. What is Content Management System (CMS)? Give an example.
- What is Document Dictionary and how is it used in Word Processing?
- 10. What is meant by "slide layout" in a presentation?
- 11. What is the role of speaker notes in a presentation?
- 12. What are the components of Joomla front end?

PART B Answer all questions. Each question carries five Marks. Ceiling 30 Marks

- 13. Briefly explain the purpose of a chart in an electronic spread sheet. ,
- 14. What is the purpose of queries in databases? How they are created?
- 15. Explain Pivot table and Pivot chart and when they are used?
- 16. How hyperlinks are used in presentation? How it benefits in interactivity and navigation?

- 17. Explain the role of speaker notes in presentation for a live presentation.
- 18. Explain the steps for inserting and configuring Joomla for web development.
- 19. Explain the concept of Mail Merge and its application in a word processor.

PART C Answer any one. Each question carries ten Marks

- 20. Describe the process of creating tables and working with forms in database management systems.
- 21. Describe the steps involved in page formatting in a word processor.

(1x10=10 Marks)