

1B5N21156

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Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

**Fifth Semester B.Sc Computer Science Degree Examination, November 2021**

**BCS5B08 – Computer Organization & Architecture**

(2019 Admission onwards)

Time: 2 ½ hours

Max. Marks: 80

**PART – A**

**Answer *all* questions.**

**Each question carries Two mark.**

**Ceiling -25 Marks**

1. What is a sequential logic circuit?
2. What is Johnson counter?
3. Explain the stored program concept of architecture.
4. Explain design of Accumulator logic.
5. What are arithmetic instructions? Give example.
6. List and explain different types of interrupts.
7. What is micro operation?
8. What is the role of I/O interface module?
9. Explain the concept of handshaking in data transfer.
10. What are priority interrupts?
11. List three memory access methods.
12. What are the two different type of RAM?
13. Explain virtual memory.
14. Explain MIMD structure.
15. What is cache coherence?

**PART – B**

**Answer all questions.**

**Each question carries Five marks.**

**Ceiling -35 Marks**

16. Compare Johnson counter with ring counter.
17. Describe the stack organization of computer.
18. Explain micro programmed control.
19. Describe the different type of ROM.
20. Explain the working of an optical storage device.
21. Give a detailed account of asynchronous data transfer mode.
22. Explain basic parallel processing architecture.
23. Explain the different characteristics of CISC and RISC

**PART - C**

**Answer any two questions.**

**Each question carries Ten marks.**

24. What are shift registers? Explain different types of shift registers.
25. Explain working of any four peripheral devices.
26. With the help of a block diagram explain I/O processor.
27. Describe computer memory hierarchy.

**2 x 10 = 20 Marks**



FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc Computer Science Degree Examination, November 2021

BCS5B09 – Java Programming

(2019 Admission onwards)

Time: 2 ½ hours

Max. Marks: 80

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

1. What is an object? How it is used in a java program?
2. Why 'this' is used? Give an example.
3. Give an example of a 1 D integer array declaration in java.
4. How a Boolean variable is used in java? Give an example.
5. What is the relevance of bytecode?
6. What is a package in java?
7. Describe the use of thread for better efficiency in java programming.
8. Describe the format of URL.
9. What is a Result Set?
10. Justify the need of using jdbc drivers.
11. What is the purpose of add() method in Applet ?
12. What is repaint() method?
13. How abstraction is implemented in java?
14. How significant is Mouse Listener interface?
15. What is typecasting in java programs?

**PART – B**

**Answer all questions.**

**Each question carries Five marks.**

**Ceiling -35 Marks**

16. What is the significance of *super* keyword? Describe its uses.
17. Try and catch plays a crucial role in error handling of java. Justify.
18. Is polymorphism possible in java? Explain.
19. Differentiate method overloading and method overriding.
20. Distinguish between friendly and private access permissions in java.
21. Differentiate an applet and application in java.
22. Demonstrate how and when Array Index Out Of Bounds Exception is generated in java.
23. Explain how a mouse click event is handled in java.

**PART - C**

**Answer any two questions.**

**Each question carries Ten marks.**

24. Explain each of the following – classes, finally, break, if.
25. Write a javaprogram to do the following – define a class Baseshape, its two subclasses - rectangle and triangle, methods to find area and perimeter of rectangle and triangle and also objects of the same invoking these methods. Show the output also.
26. Explain the following  
i)Strings ii) switch statement iii) try...catch
27. Explain how database is connected and operated in java using an example program.

**2 x 10 = 20 Marks**



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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

**Fifth Semester B.Sc Computer Science Degree Examination, November 2021**

**BCS5B10 – Web Programming using PHP**

(2019 Admission onwards)

Time: 2 ½ hours

Max. Marks: 80

**PART – A**

**Answer *all* questions.**

**Each question carries Two mark.**

**Ceiling -25 Marks**

1. What is HTML 5?
2. Write an HTML5 code to generate radio buttons?
3. What are Cascading Style Sheets?
4. What are floating frames? Give a suitable example.
5. How to create arrays in JavaScript?
6. Discuss onLoad, onunload events in JavaScript?
7. What is PHP?
8. What is Web server? What is its role in PHP scripting?
9. Differentiate echo and print statements in PHP?
10. What are single quoted strings and double quoted strings?
11. Discuss stripslashes(), strstr() with a suitable example.
12. What is use statement in PHP?
13. What is MySQL?
14. Write a php-MySQL program segment for connecting two different databases in two different servers.
15. Discuss any four features of MySQL.

**PART – B**

**Answer *all* questions.**

**Each question carries Five marks.**

**Ceiling -35 Marks**

16. Illustrate various methods for creating navigational links using anchor tag.
17. What are the different CSS positioning schemes to create web page layouts?
18. Explain any five Built-in Global Functions in JavaScript with examples.
19. Explain various data types in PHP.
20. Write notes on GET and POST methods in php.
21. What are the various string variables in php?
22. Explain `mysqli_fetch_row()`, `mysqli_fetch_object()`, functions with suitable examples.
23. Explain CREATE TABLE, SELECT, DELETE, UPDATE, INSERT statements in MySQL.

**PART - C**

**Answer any *two* questions.**

**Each question carries Ten marks.**

24. Explain various elements of HTML 5.
25. Explain different types of Events in JavaScript.
26. Explain in detail all the iteration methods in PHP?
27. Design a web page that accept username and password as input and authenticate the same from a given database in MySQL using php.

**2 x 10 = 20 Marks**



FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc Computer Science Degree Examination, November 2021

BCS5B11 – Computer Networks

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

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

1. Describe any two applications of Computer Network.
2. Define periodic and composite signals.
3. Define Multiplexing
4. Define baseband transmission and passband transmission
5. What are Single bit error and Burst error.
6. Define Channelization.
7. Define Gateways.
8. Define Datagram .
9. What is User Datagram Protocol (UDP)?
10. What is Post Office Protocol (POP)?
11. What is meant by Domain Name System?
12. What is Remote Procedure Call?

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

13. Write notes on Frequency Division multiplexing and Time Division Multiplexing
14. Discuss ALOHA and pure ALOHA.
15. Differentiate bridges and routers.
16. Explain Vertical redundancy check.
17. Differentiate IPV4 and IPV6.
18. Discuss Distance Vector Routing.
19. Write a note on Packet Scheduling.

**PART C****Answer any *one*.****Each question carries *ten* Marks.**

20. Explain the OSI Reference Model with a neat block diagram.
21. Explain Cryptography and its categories in detail.

**(1x10=10 Marks)**

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc Computer Science Degree Examination, November 2021

BCS5B11 – Computer Networks

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

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

1. Describe any two applications of Computer Network.
2. Define periodic and composite signals.
3. Define Multiplexing
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**PART B****Answer all questions.****Each question carries *five* Marks. Ceiling 30 Marks**

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17. Differentiate IPV4 and IPV6.
18. Discuss Distance Vector Routing.
19. Write a note on Packet Scheduling.

**PART C****Answer any *one*.****Each question carries *ten* Marks.**

20. Explain the OSI Reference Model with a neat block diagram.
21. Explain Cryptography and its categories in detail.

**(1x10=10 Marks)**



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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

**Fifth Semester B.Sc Computer Science Degree Examination, November 2021**

**(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. How to insert different headers for odd and even pages in MS-WORD?
2. Define the following terms with respect to MS-WORD.  
a) Hyperlink      b) Bookmark
3. What is IF function in MS-EXCEL?
4. How can we insert an online video in Power Point presentation?
5. What is meant by layering art objects in presentations?
6. List any four mathematical functions in MS-EXCEL.
7. What is ODBC?
8. What are the field properties of a table in MS-ACCESS?
9. What is Content Management System (CMS)? Give an example.
10. What is template manager in Joomla?
11. What is the document dictionary in Word processor applications?
12. How transitions help in a presentation?

**PART B**

**Answer all questions.**

**Each question carries *five* Marks. Ceiling 30 Marks**

13. Explain linking and embedding objects in MS-WORD.
14. Write steps to create a new database in MS-ACCESS?
15. Explain different types of charts in MS-EXCEL.
16. Write short notes on different slide views in MS- PowerPoint.
17. Explain the steps for creating content for Joomla.
18. Explain Pivot table and Pivot charts.
19. Explain the steps to insert recorded sound effects to a presentation.

**PART C**

**Answer any one.**

**Each question carries ten Marks.**

- 20. Explain the various menus and options in MS-Power Point/ Open Office Impress.
- 21. Explain the steps for creating a database application with form in which MS Access act as back end.

**(1x10=10 Marks)**