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1B5N17171 (Pages : 2) Reg. No:.....

Name: .....

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc CS Degree Examination, November 2017

BCS5B08 – Computer Organization & Architecture

(2015 Admission onwards)

Max. Time: 3 hours Max. Marks: 80

Section -- A

Question 1 to 10. Answer *ALL* questions. Each carries *ONE* mark

1. The opcode specifies _____
2. Cache memory acts between _____ and _____.
3. Software interrupts are initiated by _____.
4. The CPU register holding the address of the next instruction to be executed is called _____.
5. A stack organized computer uses instruction with _____ number of addresses.
6. The pipeline that operates on a stream of instruction by overlapping the phases of instruction cycle is _____.
7. Expand RISC.
8. The postfix form of the expression A+B*C-D/E is _____.
9. Define interrupt cycle.
10. What is MIMD?

(10 x 1=10 Marks)

Section – B

Question 11 to 15. Answer *ALL* questions. Each carries *TWO* marks

11. Define stack.
12. Write short note on effective address.
13. List any four processor registers along with their functions.
14. Differentiate between hardwired and micro-programmed control unit.
15. Differentiate between programmed I/O and interrupt I/O.

(5 x 2=10 Marks)

Section – C

Question 16 to 23. Answer *any FIVE* questions. Each carries *FOUR* marks

16. Explain the addressing modes with example.
17. Discuss the memory hierarchy.
18. Explain data transfer instructions.
19. Explain types of interrupts.
20. Explain Booth multiplication algorithm.
21. Explain Direct Memory Access.
22. Explain direct mapping.
23. Describe Flynn's classification.

(5 x 4=20 Marks)

Section – D

Question 24 to 31. Answer *any FIVE* questions. Each carries *EIGHT* marks

24. Describe stack organization in detail.
25. Explain division algorithm.
26. Explain vector processing in detail.
27. Explain instruction level pipeline in detail.
28. Explain characteristics of RISC and CISC.
29. Explain cache coherence.
30. Discuss various memory mapping techniques.
31. Explain the design of accumulator logic in a hardwired control unit.

(5 x 8=40 Marks)

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc CS Degree Examination, November 2017

BCS5B09 – Java Programming

(2015 Admission onwards)

Max. Time: 3 hours Max. Marks: 80

Part A

Answer all questions. Each question carries 1 mark.

1. Which of the following is not a primitive datatype in java?
   a) byte b)boolean c)long d)array
2. What is byte code with reference to Java Programming?
   a) The type of code generated by a Java Virtual Machine
   b) It is java program with jdbc to handle databases
   c) It is another name for Java source file
   d) The type of code generated by a Java compiler
3. What will be the output of the execution of the following code?

```
public class Demo
{public static void main(String []args)
{  int i;
for( i = 0; i < 10; i++)
{ if(i == 5){ break; }}
System.out.print(i++);  }}
```

   a) 10 b) 9 c) 5 d) 6
4. Which is not true regarding the keyword finally in java?
   a) finally block is always executed whether exception is handled or not.
   b) Java finally block follows try or catch block.
   c) finally is used for defining constants in java
   d) Java finally block is usually used to execute important code such as closing connections, streams etc
5. Which of these keywords can be used to prevent Method overriding?
   a) static b) constant c) abstract d) final
6. Which of the following is not a true statement regarding a constructor in java?
   a) A constructor must have an explicit return type
   b) super( ) is permitted in a constructor of a child class
   c) The name of constructor must be the same as the name of the class.
   d) A constructor is invoked at the time of object creation.
7. Among the following, which java package is normally available without an explicit import statement.
   a) java.lang b)java.awt c)java.applet d)java.math
8. Which of the following is used to call stored procedures on the database in a java jdbc program?
   a) Statement b)PreparedStatement c)CallableStatement d) finally statement
9. Name of method defined in MouseMotionAdapter class ?
   a) mouseMoved b) mousePressed c) mouseReleased d) mouseClicked
10. Name of method associated with the AWT TextField class
    a)setText ( ) b)setLabelText( ) c) setCaptionText( ) d)setnameLabel( )

(10 x 1 = 10 marks)

Part B

Answer all questions. Each question carries 2 marks.

11. Explain the ternary operator in Java with example.
12. Describe how a static block in Java program works?
13. What is the use of runnable interface in java?
14. Explain the usage of the keyword throws in java with example.
15. What is a statement in jdbc? Give example.

(5x 2= 10 marks)

Part C (short essays)

Answer any five questions. Each question carries 4 marks.

16. Explain the switch statement in java with example.
17. Describe wrapper class in java. Mention its need and give a suitable example.
18. Explain constructor chaining in java with example.
19. Explain finalize( ) and gc( ) in java.
20. Explain the working of the keyword continue in java using an example.
21. Write a java program to accept two numbers through keyboard and display the sum of these two numbers.
22. Explain the lifecycle of an applet.
23. Describe the concept of method overriding in java with a suitable example.

(5x 4 = 20 marks

Part D(Essays)

Answer any five questions. Each question carries 8 marks.

24. Write notes on a)super b)abstract
25. Explain how to create and handle a 2D array of integers in java.
26. Explain the terms package, import and CLASSPATH in java language.
27. Write an applet using awt to do the following – find the larger of two numbers which are input into two text boxes; The third textbox should display the larger number , on clicking the button labeled as 'LARGE No:?'
28. Explain the exception handling in java.
29. Explain the architecture of JDBC.
30. Explain the working of threads by creating three threads each printing from 1 to 10.
31. Explain the windows listener interface in java awt.

(5x 8 = 40 mark

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc CS Degree Examination, November 2017

BCS5B10 – Web Programming Using PHP

(2015 Admission onwards)

Max. Time: 3 hours Max. Marks: 80

I. Answer all questions. Each question carries 1 mark..

1. Expand SGML.
2. Which is the JavaScript built in function to convert a string representation of number into integer.
3. FTP stands for .....
4. Write an example for empty tag?
5. The tag to draw a line horizontally is ....
6. ..... is an event that fires when user clicks the mouse
7. .....is the tag to specify links in HTML.
8. Write an example for server side scripting language?
9. Name a web browser.
10. ..... is the html property to set background colour for a web page..

(10×1=10 marks)

II. Answer all questions. Each question carries 2 marks

11. What is the use of mysql_fetch_row function?
12. What are arithmetic operators in java script?
13. Differentiate empty tags and container tags in html
14. Define events in JavaScript.
15. Differentiate dynamic, active and static web pages.

(5×2=10 marks)

III. Answer any 5 questions. Each question carries 4 marks

16. Explain various style sheets.
17. Explain hyperlinks in HTML.
18. Explain web servers in detail
19. Explain branching statements in PHP.
20. Design a home page for a super market.
21. Explain forms in html.
22. Write a JavaScript program to change background colour of a web page.
23. Differentiate alert and prompt dialog boxes in JavaScript.

(5×4=20 marks)

IV. Answer any 5 questions. Each question carries 8 marks

24. Explain OOP concepts in PHP.
25. Explain different PHP functions for array operations. Write suitable example.
26. Explain list creation and formatting tags in HTML with suitable examples.
27. Explain various String functions in PHP.
28. Explain database concepts and data retrieval methods in PHP.
29. Explain control statements in JavaScript.
30. Differentiate client side and server side scripting languages. Write Features of any one client side and server side scripting language.
31. Explain various formatting tags in HTML.

(5x 8 = 40 Marks)

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester B.Sc CS Degree Examination, November 2017

BCS5B11 – Principles of Software Engineering

(2015 Admission onwards)

Max. Time: 3 hours Max. Marks: 80

PART A

Answer all questions

Each question carries 1 mark

1. Define Software Engineering.
2. Define Software Process.
3. What is meant by Testability of Software?
4. Define Software Requirements.
5. What is Unified Modeling Language?
6. What is Cohesion?
7. What is Requirement Validation?
8. What is meant by the State of a system?
9. Define Unit Testing.
10. Define Data Flow Diagrams.

(10 x1 = 10 Marks)

PART B

Answer all questions

Each question carries 2 marks

11. Why Process Models are required in Software Development?
12. Explain Informal Approach of Requirement Analysis.
13. Define Functional Cohesion.
14. Briefly describe Code Inspection.
15. Write a short note on Black Box Testing.

(5 x 2 = 10 marks)

Section C (Paragraph)

Answer any two questions Each question carries 5 marks

18. Explain analgesics, antacids and antihistamines with examples.
19. Explain the significance and applications of various food additives with examples
20. Explain advantages and disadvantages of soaps and detergents.

(2 x 5 = 10 Marks)

Section D (Essay)

Answer any one question Each question carries 10marks

21. a) Explain the classification of pesticides and their environmental impacts. (5 marks)
    b) Explain the composition and uses of fuels obtained from the fractional distillation of petroleum. (5 marks)
22. a) The potential uses of nano-materials are significant in computers, sensors, textiles and other sectors. Establish the statement with examples. (6 marks)
    b) Discuss the applications of polythene, PVC, Nylon-66, and Kevlar.(4 marks)

(1 x 10 = 10 Marks)

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fifth Semester CS(Open Course)Degree Examination, November 2017

BCS5D01 – Introduction to Computers & Office Automation

(2015 Admission onwards)

ax. Time: 2 hours Max. Marks :40

PART A

Answer *all* questions.

Which one is the equation editor in Open office ?

a. Equation Editor b. Math c. Notepad d.gedit

_____ feature offers alternative words and phrases in Open office writer

a. Thesaurus b. Dictionary c. Spell check d. All of these

F1 is the key used for getting_____

a. Open a file b. Find a file c. Help d. Delete a file

Spread sheet application of open office is _____

a. Excel b. Calc c. Draw d. Impress

_____ is the presentation software included in the Open Office.

a. Excel b. Calc c. Draw d. Impress

Find odd man out.

a. Master page b. Custom Animation c. Slide Transition d. Task pane

Bullets and Numbering is available in _____ menu.

a. Font b. File c. Format d. Insert

_____ used as a reference for the presenter.

a. Handout b. Slide Sorter d. Outline d. Speaker notes

To run a slide show in impress one can use _____ key.

a. F5 b. F9 c. Both (a) and (b) d. None of these

. Which facility in Writer helps in creating same letter to be posted to many addresses?

a. Spell Check b. Mail Merge c. Word count d. Insert

(10 x 1 = 10 marks)

PART B

Answer *all* questions.

1. What is the importance of CPU in a computer? Explain.
2. Give four examples for programming languages.
3. What is the use of power point? Explain.
4. What do you mean by templates?
5. Explain how to set and change margins in a MS Word document.
6. How to protect a file in MS Word?

(5 x 2 = 10 marks)

PART C

Answer any *five* questions.

17. What is meant by macro? Explain steps to record a macro.
18. Explain any four functions of an Operating System.
19. Differentiate LAN and WAN.
20. What is Mail Merge? Explain its steps.
21. Explain any four mathematical functions available in Calc.
22. What are system software? How they are different from Application software? Explain.
23. Explain the different parts of Word Window and Views in MS Word.

(5 x 4 = 20 ma