TRIBHUVAN UNIVERSITY
FACULTY OF MANAGEMENT
Office of the Dean
2014

Full Marks: 40
Time: 2 hrs.

BBA / Third Semester / IT 203: Management Information System

Candidates are required to answer all the questions in their own words as far as practicable.

Group "A"

1. ***Brief Answer Questions:*** *[10 × 1 = 10]*

    i.   What is done in system analysis phase of system development?

    ii.   What do you mean by business process?

    iii.   Write name of different types of information systems.

    iv.   What are the economic impacts given by information system to organization and business firms?

    v.   Write any three forces mentioned by Porters' Competitive Forces Model.

    vi.   What do you mean by information rights?

    vii. What is cloud computing?

    viii. List two problems with the traditional file environment.

    ix.   What is computer forensics?

    x.   What do you mean by outsourcing of software?

Group "B"

Short Answer Questions: *[5 × 4 = 20]*

2.   Explain which managerial role is supported in better way by information systems.

3.   Describe the business value of secuirty and control to the business firms.

4.   How database enables to improve bussiness performance and decision making processes? Explain with an example

5.   Explain the impact of Internet on the Porter's Competitive Forces Model.

6.   What ethical, social and political issues are raised by information systems?

Group "C"

Comprehensive Answer Questions: *[2 × 5 = 10]*

7.   Read the following situation and answer the questions given below:

USAData's Web site is linked to massive databases that consolidate personal data on millions of people. Anyone with a credit card can purchase marketing lists of consumers broken down by location, age, income level, and interests. If you click on Consumer Leads to order a consumer mailing list, you can find the names, addresses, and sometimes phone numbers of potential sales leads residing in a specific location and purchase the list of those names. One could use this capability to obtain a list, for example, of everyone in Peekskill, New York, making $150,000 or more per year.

Questions:

    a.   Do data brokers such as USAData raise privacy issues? Why or why not?

    b.   If your name and other personal information were in this database, what limitations on access would you want in order to preserve your privacy?

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Model Question

BIM / Third Semester / IT 215: Web Programming - I

Candidates are required to answer all the questions in their own words as far as practicable.

Group "A"

1. ***Brief Answer Questions:*** *[10 × 1 = 10]*

    i.   What are the uses of <hn> tags? [n is number from 1 to 6]

    ii.   Which tags are used to create ordered list?

    iii.   Write syntax of do..while loop.

    iv.   What do you mean by liquid design?

    v.   What are relative URLs?

    vi.   How can you see the source code of a web page in web browser?

    vii.   How can you know size of array in JavaScript?

    viii. What is use of 'alt' attribute used in <img> tag?

    ix.   What is the purpose of using absolute positioning for an HTML element?

    x.   How is date object created in JavaScript?

Group "B"

Exercise Problems: *[5 × 4 = 20]*

2.   Make web page with two rows and two columns using DIV tags as given below with given styles:

Width of left Column: 150px

Width of right column: 950px

Background color of right column: white

Font Color: gray

Font Family : verdana

Font size:10ptx

  CSS properties:

Height of top row: 100px

Width of top row: 1200px

Background color of Top row: green-yellow

3.   Make a web form as given below:

      Name [   ]

      Gender ○ Female ○ Male

      Country [Choose an item.]

      Hobbies ☐ Reading

                  ☐ Writing

                  ☐ Running

          [Submit]

4.   Write a JavaScript program that adds two Date objects given in 'mm/dd/yyyy/' format and displays oldest date according to year only.

5. Write function in JavaScript which takes a reference of a division (<div>) of a web page and changes text and formatting (font color, font family, font size, background color, background color) of that division.

6. Make a web form for taking one string and one number. If given string is 'javascript' and number is 198877 display welcome message otherwise ask user to re-enter string and number.

Group "C"

Comprehensive Questions: *[2 × 5 = 10]*

7. Explain how external and internal CSS are used with an example.

8. What do you mean by form validation? Explain with simple example.

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BIM / Third Semester / IT 216: JAVA Programming - I

Candidates are required to answer all the questions in their own words as far as practicable.

Group "A"

1. *Brief Answer Questions:* *[10 × 1 = 10]*

i. What is use of valueOf() function?

ii. What is use of interface?

iii. Why are comments used in programs?

iv. What do you mean by CLASSPATH?

v. List any three bitwise operators.

vi. Write syntax of any one of the control statements.

vii. What do you mean by garbage collection?

viii. For which purpose Serialization process is used?

ix. What do you mean by thread priority?

x. What is auto boxing?

Group "B"

Exercise Problems: *[5 × 4 = 20]*

2. Write a Java program to display all the numbers between -300 to -1 which when divided by 17 gives 7 as remainder and also displays sum of those numbers.

3. Make two threads, one displays odd number after one second and another thread display even number after half second between -200 and -10.

4. Write a program that displays all the read-only files of a given folder.

5. Make a class named student with private member variables name, age, and public functions to set, display and return values of member variables. Then create ten objects of the student class, set them and display the name of youngest student in the main function of another class named student_demo.

6. Write a super class named furniture with member variables weight and price. From this furniture class derive class named chair. These both super and sub classes have functions to set values of their member variables. In another class, named furn_demo make objects of class chair and display values of member variables of those objects.

Group "C"

Long Answer Questions: *[2 × 5 = 10]*

7. What is exception? Explain ArrayIndexOutOfBoundsException with an example.

8. Write the steps required to create package with an example.

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BIM / Third Semester / IT 217: Computer Organization

Candidates are required to answer all the questions in their own words as far as practicable.

Group "A"

1. ***Brief Answer Questions:*** *[10 × 1 = 10]*

   i.   Is handshaking protocol better than strobe?

   ii.   Define Gray Code.

   iii. What is meant by structural hazard in pipelining?

   iv. How many flip flops are required to construct Data Register of Basic Computer?

   v.   Make distinction between multiport memory and cross bar switch.

   vi. Define intra instruction level parallelism.

   vii. Why is I/O interface required?

   viii. What is three state gate?

   ix. Differentiate between assembly language and machine language.

   x.   Why memory hierarchy is maintained in computer system?

Group "B"

Exercise Problems: *[5 × 4 = 20]*

2.   Multiply -47 and +102 using "Multiplication of signed magnitude data" algorithm.

3.   The 8-bit registers AR, BR, CR and DR initially have the following values:

      AR = 10001010, BR = 11100011, CR = 00001111, DR = 11111110

      Determine the 8-bit values in each register after the execution of the following sequence of micro-operations.

      AR←AR + BR

      CR←CR ∧ DR, BR←BR + 1

      AR←AR - CR

4.   Write a program to multiply two positive numbers by a repeated addition method. For example, to multiply 7 × 3, the program evaluates the product by adding 7 three times.

5.   Write a program to input and pack two characters.

6.   Calculate cache hit ratio and cache miss ratio if the content is found 85 times out of 120 times in cache memory.

Group "C"

Comprehensive Answer Questions: *[2 × 5 = 10]*

7.   Why is IOP required? What influences the design of instruction format? Explain.

8.   Does pipelining always give the better performance? Support your answer with example.

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