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[5167]-102

M.B.A. (First Semester) (Information Technology)

EXAMINATION, 2017

102 : 'C' PROGRAMMING AND DATA STRUCTURE

(2013 PATTERN)

Time : 2½ Hours

Maximum Marks : 50

N.B. :- (i) Question No. 1 is compulsory.

(ii) Solve any *four* questions from the remaining.

(iii) Figures to the right indicate full marks.

1. (A) Find and explain output of the following programs. Assume suitable header files : [6]

```
(a) Void main( )
    {
        int x+1;
        switch(x)
        {
            case 0 : x = 1;
            case 1 : x = 3;
            case 2 : x = 4;
            case 3 : x = 2;
            default : x + = 2;
        }
        printf("%d", x);
    }
```

P.T.O.

```

(b) # define SQR(x) X * X
    main( )
    {
        int i;
        i=64/SQR(4);
        printf("%d",i);
    }

```

(B) Write short notes on (any *two*) : [4]

- (1) #define
- (2) malloc() and calloc()
- (3) function prototype.

2. Write a program to display the following pattern using nested loop : [10]

```

                1
              1 2 1
            1 2 3 2 1
          1 2 3 4 3 2 1

```

3. Write a program to accept a 3×3 matrix and display its transpose on the screen. [10]

4. Write a recursive function program to find the sum of digits of a given number in a single digit. [10]

5. Write a program to count number of occurrences of given character in a file using command line arguments. [10]

6. Write a program to accept information of 50 items with fields Itemno, Name, and stock. Print the Name of items having stock greater than 1000. [10]

7. Write a program to accept a string and check that string is palindrome or not. [10]

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[5167]-104

M.C.M. (Semester I) EXAMINATION, 2017

104 : DATABASE MANAGEMENT SYSTEM

(2013 PATTERN)

Time : 2½ Hours

Maximum Marks : 50

N.B. :— (i) Q. No. 1 and Q. No. 5 are compulsory.

(ii) Solve any *two* from Q. No. 2 to Q. No. 4.

1. (A) For the following case, normalise upto 3NF : [10]

A publishing house receives number of articles from authors on various subjects. There are reviewers who review articles as per the subjects assigned. The reviewers send the review report to the authors. One article can be reviewed by more than one reviewer. Only approved articles are selected for printing. One author can send as many articles as he/she wants. One article can be written by more than one author.

(B) Explain various keys used in databases. [5]

2. What is meant by deadlock ? Explain different methods used to prevent deadlock. [10]

3. What is meant by database security ? Explain the various security issues in detail. [10]

P.T.O.

4. Explain the different advantages of DBMS over traditional file processing system. [10]
5. Write short notes on (any *three*) : [15]
- (1) Database users
 - (2) Database independence
 - (3) Aggregation
 - (4) Integrity constraints
 - (5) Data mining.

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[5167]-201

M.C.M. (II Sem.) EXAMINATION, 2017

201 : BUSINESS APPLICATION AND ERP TOOLS

(2013 PATTERN)

Time : 2½ Hours

Maximum Marks : 50

N.B. :— (i) *All* questions are compulsory

(ii) *All* questions carry equal marks.

1. What is ratio analysis ? Explain any *three* ratios. [10]

Or

Explain purpose of Trial Balance. Draw format of Trial Balance.

2. Explain calculation of labour efficiency and productivity. [10]

Or

Explain BOM processing with product configuration.

3. Define training and development. Explain the benefits of training. [10]

Or

Explain process of preparation of payroll. Draw format of salary register.

P.T.O.

4. Explain ERP implementation cycle in detail. [10]

Or

Explain employee leave accounting with example.

5. Explain PF and gratuity in brief. [10]

Or

Explain employee appraisal with proper layout.

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[5167]-202

M.C.M. (Second Semester) EXAMINATION, 2017

104 : PRINCIPLES AND PRACTICES OF MANAGEMENT

AND ORGANIZATIONAL BEHAVIOUR

(2013 PATTERN)

Time : 2½ Hours

Maximum Marks : 50

N.B. :— (i) Question Nos. 1 and 5 are compulsory.

(ii) Attempt any 2 from the remaining questions.

(iii) Figures to the right indicate full marks.

1. Explain the concept of management. Discuss various managerial functions in detail. Which skills are required for a good and successful manager ? [15]
2. Explain how motivation helps to achieve success in an IT industry with the help of Maslow's need hierarchy theory. [10]
3. Explain OB in brief and state their need in recent era. [10]
4. Define organisation and discuss different organizational structures like functional and product organization. [10]

P.T.O.

5. Write short notes on (any *three*) :

[15]

- (a) Theory Z
- (b) Transactional analysis
- (c) Leadership
- (d) Conflict management
- (e) Team building.

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[5167]-204

MCM (SEM. II) EXAMINATION, 2017

204 : JAVA PROGRAMMING

(2013 PATTERN)

Time : 2½ Hours

Maximum Marks : 50

N.B. :— (i) Question No. 1 is compulsory.

(ii) Attempt any 4 questions from the remaining.

(iii) Figures to the right indicate full marks.

1. Explain the following : [10]
 - (a) What is an Exception ?
 - (b) List down different methods in Object class
 - (c) Keywords 'static' and 'final'.
 - (d) List down different methods of File class.
 - (e) Different ways of creating your own thread class object.

2. Write a class Item with properties, itemld, description, quantity and price. Take the details for 5 items and store these details using array of Item class. Print the details of these 5 objects. [10]

3. Write a super class Indian having instance variables motherTongue, dish. It should have methods, printMother Tongue(), printDish(). Write 2 sub-classes Maharashtrian and Gujrati and pass the values, “Marathi”, “Amrakhand” and “Gujrati”, “Khandavi” to these objects using over-loaded constructors. Override the superclass methods in the subclasses and print the mother tongue and recipe for each sub-class object by calling the necessary overridden methods. [10]

P.T.O.

4. Write an AWT application which will take the color from the user and draw a circle of that colour. [10]
5. Write a program which will accept a string from the user at command line. If this string matches "VIRUS" then throw a "VirusFoundException". Else print a message, "Your system is virus free!". [10]
6. Write a program in Java which reads a file and counts the number of lines in that file. Print the total number of lines. [10]
7. Explain the following (any *two*) :
 - (a) Life cycle of a thread
 - (b) Different access modifiers in Java
 - (c) Flow layout and Border Layout [10]

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[5167]-304

M.C.M. (Third Semester)

EXAMINATION, 2017

SOFTWARE DEVELOPMENT SPECIALIZATION

302-SD : Program and design with ASP.NET

(2013 PATTERN)

Time : 2½ Hours

Maximum Marks : 50

N.B. :— (i) Question No. 1 is compulsory.

(ii) Solve any *four* questions from Question Nos. 2 to 7.

(iii) Figures to the right indicate full marks.

1. Design a form and write code to : [10]
 - (i) Add New Record
 - (ii) Delete Selected Record
 - (iii) Edit Selected Record.Name of Table : Employee (eid, name, designation, dept, salary)
2. Explain tree view and menu navigation control in detail. [10]
3. Explain .Net Framework architecture in detail. [10]
4. Explain the concept of classes and interfaces with suitable example. [10]
5. What is Style Sheet ? Explain various types of style sheets with examples. [10]

P.T.O.

6. Explain the following controls (any *two*) : [2×5=10]

- (i) Labels
- (ii) Check Box Lists
- (iii) Range Validator.

7. Write short notes on the following (any *two*) : [2×5=10]

- (i) Using XML in ASP.NET
- (ii) Ajax Controls
- (iii) Login Controls.

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[5167]-308

M.C.M. (Sem. III) EXAMINATION, 2017
304-NT : SYSTEM ADMINISTRATION AND
SERVER INTEGRATION
(2013 PATTERN)

Time : 2½ Hours

Maximum Marks : 50

- N.B. :—** (i) Question No. 7 is compulsory.
(ii) Answer any *three* questions from the remaining.
(iii) Figures to the right indicate full marks.
(iv) Draw neat diagram wherever necessary.

1. Explain steps in Installing Windows 2003 Server. Also explain Post-Installation configuration. [10]
2. Explain group management and user management command in Linux. [10]
3. Explain default directories structure in Linux. [10]
4. Explain services in Linux. How services are selected for start up in Linux ? [10]
5. What are features of Window Server 2008 ? [10]

P.T.O.

6. Write short notes (any *four*) :

[20]

- (a) Type of distributed operating system
- (b) Linux Directory structure
- (c) Windows .Net Frame
- (d) Package in Linux
- (e) Windows Firewall.

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[5167]-309

M.C.M. (Sem. III) EXAMINATION, 2017

**304-ST : SOFTWARE TEST PLANNING AND DOCUMENTATION
(2013 PATTERN)**

Time : 2½ Hours

Maximum Marks : 50

N.B. :— (i) Q. Nos. 1 and 6 are compulsory.

(ii) Solve any *three* of the remaining.

(iii) Figures to the right indicate full marks.

1. Explain risk associated with software testing. [10]
2. What is test plan ? Explain develops a test matrix. [10]
3. Explain Erroneous test cases, Stress test cases. [10]
4. Discuss perform unit test in testing. [10]
5. Explain Pareto Charts and voting, Cause and Effect Diagrams in detail. [10]
6. Write short notes on (any *two*) : [10]
 - (a) Test plan standards
 - (b) Test script
 - (c) Scatter plot diagram.

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[5167]-310

M.C.M. (Sem. III) EXAMINATION, 2017

ADVANCED JAVA

(2013 PATTERN)

Time : 2½ Hours

Maximum Marks : 50

N.B. :— (i) Question No. 1 is compulsory.

(ii) Solve any *four* from the remaining.

1. Solve the following : [10]
 - (a) Write life cycle methods of servlet.
 - (b) What is Result Set MetaData. List any *two* methods.
 - (c) Interfaces used in JDBC.
 - (d) What is Request Dispatcher ?
 - (e) Write all possible ways to create server socket.

2. Write a Java program to create a multithreaded chat application. [10]

3. Write a program that will allow to perform the following operations : insert, modify, delete a record from faculty table. [10]

4. Write servlet code to accept information of students for their Annual Day Event. [10]

P.T.O.

- 5.** Write servlet code for accepting two numbers from user and display addition, subtraction, multiplication and division of those numbers. If an error occurs then call JSP Error page to display the appropriate error message. [10]
- 6.** Write short notes on (any *two*) : [10]
- (a) JSP directives
 - (b) RMI architecture
 - (c) JSTL tags
 - (d) Java beans.

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[5167]-401

M.C.M. (IV Semester) EXAMINATION, 2017

401 : CURRENT TRENDS IN IT

(2013 PATTERN)

Time : 2½ Hours

Maximum Marks : 50

N.B. :— (i) Question Nos. 1 and 6 are compulsory.

(ii) Attempt any *two* from the remaining.

(iii) Suppose your answers with relevant examples and diagram.

(iv) Figures to the right indicate full marks.

1. A reputed institute of management want to start MBA programme only for working students. Institute is interested in having online forum, online admission process, online counseling, admission fee payment process, teaching learning process and online examination process. Suggest various models of e-learning and find out best model as per their requirements. [15]
2. Explain Electronic Payment gateway in brief. [10]
3. Explain Content Management System (CMS) with their needs and appropriate example. [10]
4. Social networking apps are the need of recent era. Discuss it with the various security issues of social networking apps with example. [10]

P.T.O.

- 5.** Explain how E-commerce can make impact on Indian business scenario. [10]
- 6.** Write short notes on (any *three*) : [15]
- (i) Cyber Security
 - (ii) Computer Crimes
 - (iii) M-commerce
 - (iv) Mobile Financial Applications.