

Roll No.

2412

MCA 5th Sem. Examination
January, 2008

INTERNET PROGRAMMING USING C #

Paper : MCA-21

Time : Three hours [Maximum Marks : 75

Before answering the question, candidate should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any five questions. All questions carry equal marks.

1. Give the historical background for the evolution of NET technology. Describe the main features of NET platform.
2. (a) What is internet ? How it has changed the scenario of modern era computing ?
(b) Discuss the main components of NET technology.
- 3 Write short notes on any two of the following :
 - (i) Value types in C#
 - (ii) The concept of boxing and unboxing
 - (iii) Mailing lists.

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4. (a) Give the evolution of C#. Discuss the prime features of C#.

(b) Explain the terms : CLS, MSIL

5. (a) Discuss any *three* jump statements in C#.

(b) Explain the switch statement in C#.

6. (a) Discuss the role of a delegate in C#.

(b) Differentiate between managed code and unmanaged code.

7. Write short notes on following :

(i) Common Language Runtime

(ii) Overloading in C#.

8. Attempt any *two* of the following :

(i) Give a program segment illustrating the concept of inheritance in C#.

(ii) Illustrate the working of instance constructor in C#.

(iii) Write a short note on Internet applications.

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2413

M. Sc. (Computer Sc.)/M. C. A. 5th Sem.
Examination January, 2008

SOFTWARE TESTING AND QUALITY ASSURANCE

Paper : MCA-22

Time : Three hours

[Maximum Marks : 75

Before answering the question, candidate should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any five questions. All questions carry equal marks.

1. (a) What are the objectives and limitations of software testing ? Discuss it and also explain the difference between white box and black box testing.
- (b) Explain the difference between software verification and software validation. Name the various methods used for verification and validation.

2. Discuss the following :

- (i) Static analysis,
- (ii) Functional program testing.

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3. Explain the necessities of software testing. Explain in brief the various methods used for software testing.

4. (a) What is meant by debugging? Discuss it and also give the various debugging techniques.

(b) What is test case design? Discuss its objectives and indicate the steps involved in test case design process.

5. Why is testing necessary and important? Discuss it and also explain the various strategies and issues during object oriented testing.

6. (a) State the importance of validation and verification in Quality Assurance Plan.

(b) State the importance of software reliability in SQA.

7. (a) What are the objectives of hazards analysis? Discuss it.

(b) Discuss the I S O standards for software and also explain their importance.

8. Write short notes on the following :

(i) BBT

(ii) Basis Path testing

(iii) I S O 9000

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M. Sc. (Computer Sc.)/MCA 5th Sem.

Examination January, 2008

WINDOWS PROGRAMMING

Paper : MCA-23

Time : Three hours]

[Maximum Marks : 75

Before answering the question, candidate should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. What do you understand by a list box ? Write a windows program to add and delete the items in a list box.
2. Write short notes on following :
 - (a) G D I
 - (b) Edit controls
 - (c) Keyboard message handlers
3. (a) What do you understand by event-oriented programming ? Differentiate between event

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P. T. O.

oriented programming and procedure oriented programming.

(b) What do you understand by module definition file ? Explain.

4. What do you understand by a pop up menu ? Write a program to add/remove menu items during execution.

5. (a) Discuss the windows API functions to detect whether a mouse is present or not and the number of buttons present on the mouse.

(b) Differentiate between radio buttons and check boxes.

5. What do you understand by coding conventions ? Discuss the coding conventions followed in windows programming ? What are the advantages of following the coding conventions ?

.. What do you understand by GDI ? How can you choose a font for writing text in the client area ? Write the program.

8. What is a bitmap ? Write a program to load a bitmap on the push buttons.

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2415

M. Sc.(Computer Sc.)/MCA 5th Sem.

Examination January, 2008

I. T. MANAGEMENT

Paper : MCA-24

Time : Three hours [*Maximum Marks : 75*]

Before answering the question, candidate should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. Define management. Discuss its nature and evolution of management thoughts.
2. How do you describe relationship of management with I.T. ? Give examples.
3. What is staffing ? Discuss its function, showing the role of I.T. in performance of the same.
4. What do you mean by leadership and its styles ? How I.T. is used for effective leadership ?

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5. Give the meaning of organisation as a function of management. Also point out its forms and principles.
 6. Explain in brief the various functional areas of management. Why these are called so?
 7. Discuss the special issues of I.T. management and also give its experiences, relating to, specifically, R & D and engineering activities.
8. Write notes on :
- (a) Technological upgradation and changes.
 - (b) Control techniques.