

**SARDAR PATEL UNIVERSITY**

[1] Master of Computer Applications (Semester 2) Examination - 2023

PS02CMCA51: Object Oriented Programming using Java

Date: 12/06/2023 (Monday)

Time: 10:00 a.m. to 01:00 p.m.

NOTE:

Total: 70 Marks



1. Figure to the right indicates full marks of the questions.

**Q-1. Choose the most appropriate option for each question. [8]**

1. What makes the Java platform independent?  
 A) Bytecode                                  B) JDK  
 C) Class Compilation                        D) All of these
2. Which class in Java is used to take input from the user?  
 A) Input                                      B) Scanner  
 C) Applet                                    D) None of these
3. Which of the following is used to call a stored procedure?  
 A) PreparedStatement                        B) Statement  
 C) CallableStatement                        D) CalledStatement
4. Package in Java is a mechanism to encapsulate a \_\_\_\_\_.  
 A) Classes                                    B) Interfaces  
 C) Sub packages                            D) All of these
5. \_\_\_\_\_ keyword is used to call the constructor of parent class from child class.  
 A) super                                     B) parent  
 C) main                                      D) None of these
6. Which of these values can a boolean variable contain?  
 A) 0 & 1                                    B) True & False  
 C) Any integer value                        D) true
7. When is the object created with new keyword?  
 A) At compile time                        B) depends on the code  
 C) At run time                              D) None of these
8. System class is defined in \_\_\_\_\_.  
 A) java.util package                        B) java.awt package  
 C) java.io package                         D) java.lang package

**Q-2. Answer the following questions (Any Seven). [14]**

1. Define bytecode.
2. What is package?
3. Explain primitive data types.
4. Define Serialization in java.
5. Define Object with example.
6. State two uses of final keyword..
7. Explain "CLASSPATH" variable.
8. Define method overriding.
9. Define super-class.

**Q-3. Answer the following questions.**

- a. Explain JDK, JRE and JVM. [6]
- b. Explain any six string handling functions of java. [6]

**OR**

- b. Discuss input and output streams classes available in JAVA. [6]

**Q-4. Answer the following questions.**

- a. Differentiate between interface and abstract class. [6]
- b. Explain various OOPs features supported by java. [6]

**OR**

- b. Explain static, non-static methods with example. [6]

**Q-5. Answer the following questions.**

- a. Define exception. How do exception handling works in java? [6]
- b. Define Thread. How do we can create thread in java? Explain with syntax. [6]

**OR**

- b. What is collection framework? Differentiate List and Set interface. [6]

**Q-6. Answer the following questions.**

- a. Explain different Layout supported by java. [6]
- b. Explain various steps involved in JDBC connectivity. [6]

**OR**

- b. What is an Event? Discuss Event delegation model in detail. [6]

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**SARDAR PATEL UNIVERSITY**  
**MCA (SEMESTER - II) EXAMINATION**  
**PS02CMCA52: Software Engineering**  
**Wednesday, 14<sup>th</sup> June, 2023**

[ 1 ]

Time: 10:00 a.m. to 01:00 p.m.

Max. Marks: 70

## 1.(A) Select the most appropriate option for each question : 8

- (i) UML stands for
  - (A) Universal Modeling Language
  - (B) Uniform Modeling Logic
  - (C) Unified Modeling Language
  - (D) Uniform Modeling Language
- (ii) The \_\_\_\_\_ process model divides the activities into four major quadrants.
  - (A) Waterfall
  - (B) Spiral
  - (C) Prototyping
  - (D) Iterative
- (iii) While abstraction hides unnecessary details from outsiders, \_\_\_\_\_ helps to reveal low-level details and design progresses.
  - (A) Refactoring
  - (B) Persistence
  - (C) Refinement
  - (D) Restructuring
- (iv) If two modules communicate using a composite data item, they are \_\_\_\_\_ coupled.
  - (A) data
  - (B) stamp
  - (C) strongly
  - (D) content
- (v) Which UML notation is used to represent an initial node in the activity diagram?
  - (A) a filled circle
  - (B) an ellipse
  - (C) a filled circle inside a larger circle
  - (D) a circle
- (vi) Which of the following diagrams can show a set of parallel or concurrent flows of activities?
  - (A) A class diagram
  - (B) A use-case diagram
  - (C) A flow chart
  - (D) An activity diagram
- (vii) \_\_\_\_\_ is typically done by the programmer of a module.
  - (A) Unit testing
  - (B) Beta testing
  - (C) Black-box testing
  - (D) None of these
- (viii) In which coding approach, a programmer first writes the test scripts, and then writes the code to pass the tests?
  - (A) Pair programming
  - (B) Incremental coding process
  - (C) Test-driven development
  - (D) None of these

## 2. Answer the following questions (ANY SEVEN): 14

- (i) Define : *software engineering*. What are the *challenges* in software engineering ?
- (ii) What are the *advantages* of a *modular design* ?
- (iii) Why do we need an SRS ?
- (iv) What is *agile computing* ?
- (v) Which *criteria* can be used for determining the *quality* of *software design* ?
- (vi) List *only the names* of various different types of *UML diagrams*.
- (vii) What are the distinguishing features of the UML *activity diagrams* as compared to *flow charts* ?
- (viii) Differentiate : *unit testing* vs *integration testing*.
- (ix) What is *regression testing* ?

3.(A) Describe the *prototyping model* giving its limitations. 6

3.(B) Describe the *waterfall model* giving its advantages and disadvantages. 6

OR

3.(B) Describe the *spiral model* giving its advantages. 6

4.(A) Explain the classical *Systems Development Life Cycle (SDLC)* method for developing information systems. 6

4.(B) What is an **SRS**? Describe the general **characteristics** of an SRS. 6

OR

4.(B) Describe the major issues in *software project planning*. 6

5.(A) Explain the concept of module *coupling*. 6

5.(B) Explain the UML *class diagrams* giving an example. 6

OR

5.(B) Explain the UML *sequence diagrams* giving an example. 6

6.(A) Write a short note on *coding standards and coding guidelines*. 6

6.(B) Distinguish between *black-box testing* and *white-box testing*. 6

OR

6.(B) Distinguish between *alpha testing* and *beta testing*. 6

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Seat No: \_\_\_\_\_

No. of Printed Pages: 02

[1]

SARDAR PATEL UNIVERSITY  
MCA Semester II External Examination  
Web Technology



Date: 16/06/2023

PS02CMCA53

Time: 10.00 AM-1.00 PM

Total Marks: 70

**Q.1 [A] Multiple Choice Questions**

[08]

- 1 \_\_\_\_\_ is connectionless protocol.  
A. HTTP   B. FTP  
C. Telnet   D. None of these
  - 2 Which of the following methods can be used to display data in some form using Javascript?  
A. document.write()                               B. document.save()  
C. document.display()                              D. None of these
  - 3 How can we change the background color of an element in CSS?  
A. background-color                               B. color  
C. element   D. None of these
  - 4 How can a datatype be declared to be a constant type?  
A. const   B. var  
C. let   D. constant
  - 5 Which one of the following property scopes is not supported by PHP?  
A. friend   B. final  
C. public   D. static
  - 6 Which method scope prevents a method from being overridden by a subclass?  
A. abstract                                       B. final  
C. protected                                       D. static
  - 7 \$officeitems = array ("stapler", "punch", array ("pen", "pencil"), "folder");  
echo (count(\$fruits, 1));  
A. 4   B. 5  
C. 6   D. 3
  - 8 Data shared through which method is visible to everyone?  
A. GET   B. POST  
C. FILE   D. SUBMIT
- Q.2 Answer the following questions : (Attempt any Seven)** [14]
- 1 What is URL? Explain Parts of URL giving suitable example.
  - 2 List all the applications of CSS.
  - 3 What are the data types supported by JavaScript?

- 4 List the features of JavaScript.
- 5 Differentiate between GET and POST method.
- 6 Write down the code to have two inputs from user with submit button, one is email and other is hidden field with 1 as value in it.
- 7 Write down the usage of isset() method.
- 8 Differentiate between client side and server side scripting language.
- 9 How constant variables can be defined in php?

**Q.3 [A]** Explain the format of General HTML 5 document. Also discuss every tag of it in detail. **[o6]**

**Q.3 [B]** Write a short note on different text input controls in HTML5. **[o6]**

**OR**

**Q.3 [B]** Explain different representation of colors in HTML. **[o6]**

**Q.4 [A]** Write a short note on Media queries available in CSS3. **[o6]**

**Q.4 [B]** What is a variable in JavaScript? Explain how to declare and initialize a variable. Also show the way of fetching and displaying the value of the variable. **[o6]**

**OR**

**Q.4 [B]** What is DOM? Explain Event handling using JavaScript. **[o6]**

**Q.5 [A]** What are super globals in php? List all of them and explain any two citing an appropriate example. **[o6]**

**Q.5 [B]** What are cookies? List down its advantage over session variables. Cite an example where cookies can be used to personalize the website. **[o6]**

**OR**

**Q.5 [B]** Write a short note on regular expressions. **[o6]**

**Q.6 [A]** Explain the concept of constructor. How constructors are defined in php. Explain it giving an example of its usage while writing a code to add two numbers. **[o6]**

**Q.6 [B]** Write down the steps to connect mysql database to php. Assume that five records are available in the table with three columns (UserID, UserName, City), write down the code to display it on screen. **[o6]**

**OR**

**Q.6 [B]** What are SQL Injection attacks? Explain in detail and showcase one way of preventing it in php. **[o6]**

— X —

[1]



# SARDAR PATEL UNIVERSITY

## MASTER OF COMPUTER APPLICATIONS (MCA)

SEMESTER – II

PS02CMCA54 (THE .NET TECHNOLOGY)

19<sup>TH</sup> JUNE, 2023

Time : 10:00 a.m. to 1:00 p.m.

Marks : 70

**Q-1** Pick up the most appropriate answer from the given alternatives and write (8) in your answer book.

- (i) Which one of the following class is used to create Console-based application?  
 [A] Console      [B] System      [C] console      [D] None of these
- (ii) Consider the following two statements:  
 1. C#.NET is a loosely typed language.  
 2. char is a valid C#.NET keyword.  
 Which one of the followings is correct for above two statements?  
 [A] Only [1] is correct      [B] Only [2] is correct  
 [C] Both [1] and [2] are correct      [D] Both [1] and [2] are incorrect
- (iii) CLR is responsible for -  
 [A] Manages the execution of Web Pages  
 [B] Manages the parsing of the various types  
 [C] Manages the execution of .NET programs  
 [D] All of the above
- (iv) Arrays in C# are \_\_\_\_ objects.  
 [A] reference      [B] value      [C] both [A] & [B]      [D] None of these
- (v) ASP.NET controls begin with -  
 [A] <asp:... />      [B] <aspx:... />      [C] <aspnet:... />      [D] None of these
- (vi) In ASP.NET, which one of the followings is a client-side statement management technique?  
 [A] Session      [B] Application      [C] Profile      [D] Cookie
- (vii) The extension of a ASP.NET web page is \_\_\_\_\_.  
 [A] .aspx      [B] .asp      [C] .web      [D] None of these
- (viii) The \_\_\_\_\_ property of a page object is used to check that the page is posted back or not.  
 [A] IsPostBack      [B] PostBack      [C] PostBackURL      [D] None of these

**Q-2** Attempt the following: (ANY SEVEN)

- i. What is C#.NET? Write down various features of C#.NET.
- ii. What is Jagged Array? Give an example of it.
- iii. Differentiate : class and structure.
- iv. Define the term 'Unboxing' with an example.

(14)

- Ques. No. 2*
- v. Write down names of any four Dialog controls of C#.NET.
  - vi. What do you mean by 'Postback' and 'Cross-page Posting'?
  - vii. Define the terms : Web Page and Web Server.
  - viii. Write down names of any four ASP.NET directives.
  - ix. Write down the full-form of : MDI, BCL, IIS and GUI.

**Q-3 [A]** What is C#.NET? State the general skeleton of C#.NET program. Explain (6) Console Applications with an example.

**[B]** Explain – ".NET Architecture with its diagram". (6)

OR

**[B]** Explain – switch and foreach statements with an example. (6)

**Q-4 [A]** What is Class? How can we create it in C#.NET? Explain various class (6) members with an example.

**[B]** Explain Label and Button controls with an example. (6)

OR

**[B]** Explain GroupBox and TextBox controls with an example. (6)

**Q-5 [A]** What is ASP.NET? Why is it used? Write down advantages of ASP.NET. (6)

**[B]** Explain the life cycle of ASP.NET Web Page? (6)

OR

**[B]** Explain any three ASP.NET controls. (6)

**Q-6 [A]** List all ASP.NET validation controls and explain any tow of them. (6)

**[B]** Explain Response.Redirect(), Server.Execute() and Server.Transfer() (6) methods with an example.

OR

**[B]** Explain : ADO.NET architecture. (6)



NO. OF PAGES :

# SARDAR PATEL UNIVERSITY

## MASTER OF COMPUTER APPLICATIONS (MCA)

SEMESTER – II

PS02EMCA59 (SOFTWARE TESTING)

21<sup>ST</sup> JUNE, 2023

Time : 10:00 a.m. to 1:00 p.m.

Marks : 70

**Q-1 Pick up the most appropriate answer from the given alternatives and write (8) in your answer book.**

- (i) \_\_\_\_\_ Is the activity where the errors remaining from all the previous phases must be detected.  
[A] Analysis      [B] Coding      [C] Testing      [D] None of these
- (ii) How much percentage of cost is generally consumed in software testing with reference to software development cost?  
[A] 40-50      [B] 10-20      [C] 85-90      [D] None of these
- (iii) The Testing of the software with real data in real environment is known as \_\_\_\_\_ testing.  
[A] Alpha      [B] Beta      [C] Integration      [D] None of these
- (iv) Software errors during coding are known as:  
[A] Defects      [B] Bugs      [C] Failures      [D] None of these
- (v) How many portions are available in a decision table?  
[A] 1      [B] 2      [C] 4      [D] None of these
- (vi) For a function of 'n' variables, boundary value analysis generates \_\_\_\_\_ test cases.  
[A]  $4n+1$       [B]  $6n+1$       [C]  $8n+1$       [D] None of these
- (vii) A set of inputs, execution preconditions and expected outcomes is known as a \_\_\_\_\_.  
[A] Test Case      [B] Test Plan      [C] Test Suite      [D] None of these
- (viii) Which programming languages are supported by Selenium?  
[A] Ruby      [B] Java      [C] Python      [D] All of these

**Q-2 Attempt the following: (ANY SEVEN)**

(14)

- i. Write any four principles of a Software Testing.
- ii. Define the terms : 'Error' and 'Fault'.
- iii. Differentiate : Verification and Validation.
- iv. Differentiate : Black-Box Testing and White-Box Testing.
- v. Justify – "Exhaustive Testing is impossible".

- vi. Differentiate: Manual Testing and Automated Testing.
- vii. Write down various benefits of effective test case.
- viii. What is control flow graph? Give an example of control flow graph.
- ix. Write a full-form of : RTM, STLC, BVA, ECP.

**Q-3 [A]** What is Testing? Why is it Required? Explain various levels of testing. (6)

**[B]** What is STLC? List down various phases of STLC. Explain any two of them. (6)

OR

**[B]** Explain testing process with an example. (6)

**Q-4 [A]** Define the term 'Black-Box Testing'. How to do black-box testing? Write down various parameters that can be checked by black-box testing. (6)

**[B]** Explain different types of black-box testing. List down different black-box testing techniques. (6)

OR

**[B]** Define the term 'White-Box Testing'. How do you perform white-box testing? (6) What do you verify in white-box testing?

**Q-5 [A]** What is Test Case? Explain various components of Test Case with an example. (6)

**[B]** Explain various Test Case Selection Criteria. (6)

OR

**[B]** When do you prefer automated testing over manual testing? Write down various advantages and disadvantages of automated testing. (6)

**Q-6 [A]** What is Selenium? Write features and limitations of Selenium. (6)

**[B]** Explain - Selenium Suite. (6)

OR

**[B]** Explain – Categories of Testing Tools. (6)

SEAT No. \_\_\_\_\_

[1]



## SARDAR PATEL UNIVERSITY

## Master of Computer Applications (MCA)

## SEMESTER - II

## PS02EMCA57: Cyber Security

Wednesday, 21<sup>st</sup> June, 2023

Time: 10:00 am to 1:00 pm

Max. Marks: 70

## Q-1 Choose the most appropriate option for each question: [ 8 ]

1. To send unwanted bulk messages broadly is known as \_\_\_\_\_.  
 (A) Spoof                                  (B) Trash  
 (C) Draft                                    (D) Spam
2. In \_\_\_\_\_, attackers deduces a small amount from the account of every customer.  
 (A) Source attack                        (B) Key logger  
 (C) Phishing                                (D) Salami attack
3. Strong password contains \_\_\_\_\_.  
 (A) Only lower case letters              (B) Only upper case letters  
 (C) Only digits                             (D) Letters, Digits & Special Characters
4. Obscene Film, video, audio or picture is known as \_\_\_\_\_.  
 (A) Spamming                                (B) SQL Injection  
 (C) DoS                                      (D) Child Pornography
5. Full form of IPC is \_\_\_\_\_.  
 (A) Indian Penal Code                    (B) Industry Penal Code  
 (C) Indian Political Code                (D) Industry Policy Code
6. Which of the following is not a symmetric key algorithm?  
 (A) DES                                      (B) RSA  
 (C) Triple DES                            (D) AES
7. Which of the following is the last phase of digital forensics?  
 (A) Investigation                        (B) Preparation and Identification  
 (C) Testifying                             (D) Reporting
8. Section \_\_\_\_\_ of IT Act 2000, for penalty and compensation for damage to computer, computer system, etc.  
 (A) 68                                      (B) 66  
 (C) 67                                      (D) 43

## Q-2 Answer the following questions (ANY SEVEN):

[ 14 ]

1. Define: Virus , Worms
2. What is Buffer overflow?
3. Define: Cybercrime & Cyber Security
4. Define: Identity theft. Also give its two examples.
5. What is the importance of PING command?
6. Define: Authentication & Availability
7. Full form of DES, AES.
8. Explain Certificate authority in brief.
9. Difference between active and passive attack.

**Q-3**

(A) Explain any three cybercrime against an individual.

[ 6 ]

(B) Explain phishing in detail.

[ 6 ]

**OR**

(B) Explain Social engineering in detail.

[ 6 ]

**Q-4**

(A) Explain following terms: Forgery, Email bombing, Software Piracy, Password sniffing, DoS, Key loggers

[ 6 ]

(B) List networking commands. Explain any two in detail.

[ 6 ]

**OR**

(B) Explain following terms: SQL injection, Cyber stalking, Debit card fraud, Cyber defamation, Spyware & Botnet

[ 6 ]

**Q-5**

(A) List symmetric key algorithms. Explain any one in detail.

[ 6 ]

(B) Explain Message digest in detail.

[ 6 ]

**OR**

(B) Explain Digital certificate in detail.

[ 6 ]

**Q-6**

(A) Explain digital forensics lifecycle in detail.

[ 6 ]

(B) Explain Hand-Held Devices And Digital Forensics.

[ 6 ]

**OR**

(B) Write a short note on forensics tool.

[ 6 ]

— X —

[28]

**SARDAR PATEL UNIVERSITY**  
**MASTER OF COMPUTER APPLICATIONS**  
**SEMESTER – II**  
**PS02EMCA60 (Embedded Systems and IoT)**  
**Friday May 6<sup>th</sup>, 2022**

Time: 9:00 am to 11:00 am

Max. Marks: 70

**Q-1**

- A. Choose the most appropriate option for each question: [8]
1. Which of the following is not true for an embedded system?
 

A. For a particular purpose	B. Usually has a single task
C. Works independent of human	D. None of these
  2. Which of the following is not a type of chip used in embedded systems?
 

A. Microprocessor	B. Microcontroller
C. DSP	D. None of these
  3. World's first IoT device was a(n) -
 

A. Industrial robot	B. robotic car
C. Coca-Cola vending machine	D. Smart card reader
  4. Which of the following is not a communication technology used with IoT?
 

A. RFID	B. NFC
C. ZigBee	D. None of these
  5. Arduino boards are commonly based on \_\_\_\_\_ family of microcontrollers.
 

A. ARM	B. AVR
C. AMD	D. AVD
  6. How much RAM does the Arduino Uno have?
 

A. 2 KB	B. 2 MB
C. 512 KB	D. 512 MB
  7. What is the full form of SBC?
 

A. Simple Board Computer	B. Single Board Computer
C. Simple Board Controller	D. Single Board Controller
  8. The Raspberry Pi is usually programmed in -
 

A. Python	B. C / C++
C. Java	D. None of these

**Q-1**

B. Do as Directed.

Fill in the blanks :

[16]

1. The full form of ADC is \_\_\_\_\_.
2. Chips containing a processor, memory and integrated peripherals are known as \_\_\_\_\_.
3. Often, several IoT devices connect to the Internet through "IoT Device \_\_\_\_\_".
4. " \_\_\_\_\_ Go" is an example of automated checkout process in retail stores.
5. Arduino is powered using \_\_\_\_\_ V.
6. \_\_\_\_\_ is an Arduino compatible board with built-in Wi-Fi.
7. The full form of GPIO is \_\_\_\_\_.
8. The latest model of Raspberry Pi is \_\_\_\_\_.

State whether the following statements are TRUE or FALSE :

9. An embedded system usually has very limited user interface. ✓
10. Embedded systems can be used where there are strict time constraints and possibility of damage. 1

**Q-3**

- A. Write a short note on embedded systems constraints and downfalls of embedded systems. [6]
- B. Explain serial v/s parallel communication and synchronous v/s asynchronous communication. [6]

**OR**

- B. Write a short note on real-time systems. [6]

**Q-4**

- A. List the important specifications of any one model of Arduino and any one model of NodeMCU. [6]
- B. Write a short note on the super loop architecture. [6]

**OR**

- B. Write a short note on PWM. [6]

**Q-5**

- A. Describe in brief the IoT communication protocols. [6]
- B. Explain security and privacy constraints in the use of IoT. [6]

**OR**

- B. Explain levels of driving automation for autonomous vehicles. [6]

**Q-6**

- A. Write a short note on the Raspberry Pi single-board computer. [6]
- B. Write a program to control 3 LEDs (14, 15, 18) at a time using the Raspberry Pi. [6]

**OR**

- B. Explain relays and resistors. [6]

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**Sardar Patel University**  
**PG Department of Computer Science & Technology**  
**MCA Semester II External Examination**  
**(PS02CMCA55: Practicals based on PS02CMCA51 & PS02CMCA53)**

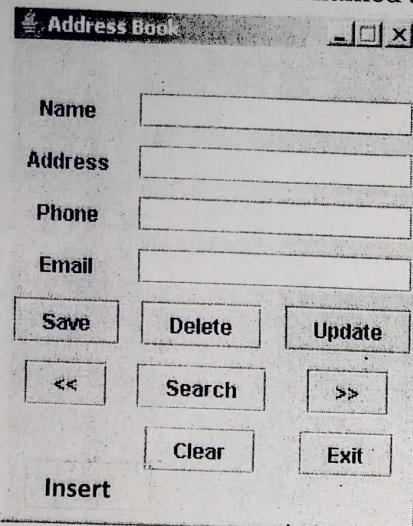
Date: June 28, 2023

Time: 3 Hours

Max. Marks: [60 (Prac.)+10(Viva)]

- Q-1** Create a swing application with following details and save the project as **Q1nnn** (where **nnn** are last three digits of your ExamID).

- a. Create a user interface named as AddressBook as shown in below figure



- b. On form load, MySQL database having the following database configuration should be created and connected automatically. Also add some records using the user interface.

**Database Name :** EmployeeDetails

**Table Name:** AddressBook

**Table Specification:**

Column	Type	Size	Description
ADDID	INTEGER		Primary Key (Autogenerated)
Name	VARCHAR	30	Not Null
Address	VARCHAR	100	Address Details, Not Null
Phone	INTEGER	10	Non Null
Email	VARCHAR	50	Not Null

- c. Perform all operation mentioned on the Interface.

- Q.2** Create a website using php with homepage including your personal profile.

Along with your details displayed in well formatted manner, it should include two buttons/hyperlinks, Share Feedback and View Feedback. Clicking on Share Feedback should open a new page accepting information like name, email id, dob, qualification and feedback on your website by the user. Data should be saved in database.

Clicking on View Feedback should display entire saved information in systematic manner.

Note: 15 marks for Design (HTML, CSS, Javascript), 15 for Functionality using php and mysql

**SARDAR PATEL UNIVERSITY**  
**Master of Computer Applications (MCA)**  
**MCA (Semester-II) Examinations**  
**PS02CMCA56 (Practicals Based on PS02CMCA54)**  
**24<sup>th</sup> June 2023**

Time: 11:00 am to 2:00 pm

Max. Marks: 70

**Q-1** Create a Window Based Application (Application Name : q1nnn, where nnn indicate your exam number) using Visual C#.NET for performing the following operations: [30]

- Add SQL server database file (comp.mdf) to your application. Create a table REG, to store registration details in the database (You may refer the following screen in order to design REG table).

The image shows a Windows application window titled "Registration Form". It contains the following fields:

- User Id: [Text Box]
- Password: [Text Box]
- Name: [Text Box]
- Address: [Text Box]
- Country: [Text Box] (Please select a country)
- ZIP Code: [Text Box]
- Email: [Text Box]
- Language: [Check Box] English [Check Box] Non English
- About: [Text Area]

At the bottom left is an "ADD" button.

Design a Windows form (as shown above) to insert the data into REG table. When user click ADD button, application should insert the data into REG table.

**Q-2** Develop a Web Site using ASP.NET (Visual C#) (Application Name : q2nnn, where nnn indicate your exam number) to perform the following: [30]

- Add SQL server database file (exam.mdf) to your application. Create a table FEEDBACK, to store feedback details, which includes name, designation, name of the company, address, telephone/mobile number, email and description of the feedback.
- The default page of the application should contain two buttons viz. Submit and Reset. When user click Submit button, application should insert the data into FEEDBACK table. When user click Reset button, application should clear all input controls.

The image shows a web form with the following fields:

- Name\*
- Designation\*
- Company Name\*
- Address\*
- Telephone/ Mobile No.\*
- Email\*
- Description\*

At the bottom are "Submit" and "Reset" buttons.

**Q-3** Viva-voce [10]