

KADI SARVA VISHWAVIDYALAYA**BE SEMESTER - VI Regular Examination APRIL/MAY-2015****Subject Code: CE 605-2 / IT 605-2****Subject Name: Advance .Net Technology****Date: 06/05/2015****Time: 10:30 to 01:30****Total Marks: 70****Instructions:**

1. Answer each section in separate answer sheet.
2. Use of scientific calculator is permitted.
3. All questions are Compulsory.
4. Indicate clearly, the option you attempt along with its respective question number.
5. Use the last page of main supplementary of rough work.

Section-I**Q-1 (A) Select the Correct Answer****[5]**

- (1) Which of the following is not part of CLR?
- a. Class Loader
 - b. Garbage Collector
 - c. .Net Framework
 - d. JIT Compiler
- (2) Which of the following is not an advantage of .NET Framework?
- a. Language Interoperability
 - b. Manual Management of Resources
 - c. Cross-platform support
 - d. Consistent Programming Model
- (3) Which of the following property represents a Dataset?
- a. DataMember
 - b. DataSource
 - c. DisplayMember
 - d. ValueMember
- (4) Which parameter is used to specify that SessionID should not be stored in cookie?
- a. timeout
 - b. Cookieless
 - c. SessionState
 - d. mode
- (5) Which is the correct syntax for declaring Web services?
- a. [WebMethods]
 - b. (WebMethod)
 - c. [WebMethod]
 - d. {WebMethods}

(B) Explain the terms : CLR, MSIL, GAC, Namespace, Assembly Manifest**[5]****(C) Differentiate between following terms regarding .Net framework****[5]**

- Managed and Unmanaged Code
- ADO and ADO .Net

OR**(C) Differentiate between following terms regarding .Net framework****[5]**

- Array and Array List
- Indexer and properties

Q-2 (A) Explain the use of StreamReader and StreamWriter class for FileStream with suitable example.**(B) What is Delegate? Demonstrate it by creating console application to perform arithmetic operations.**

OR

- (A) What is Destructor? Give the name of two techniques of Destructor and explain [5] both by creating suitable application in C#
(B) What is Inheritance? Create VB.Net console application to define shape class and [5] derive circle and rectangle from it to demonstrate inheritance

- Q-3** (A) Differentiate between structured and Unstructured exception handling? Create [5] VB.Net console application to demonstrate Unstructured exception handling
(B) Explain objects of ADO .Net: SqlConnection, SqlCommand, SqlDataAdapter by [5] creating application to perform select, Insert, delete, update operation with SQL Server Database

OR

- (A) What is method overloading and overriding? Create VB.Net console application to [5] demonstrate both concepts
(B) Define Unsafe code in C#. How pointers are declared in C#? Explain with example [5]

Section-II

- Q-4** (A) What is the use and extension of following: [5]
1. ASP.Net page 2. Master Page 3.Skin File 4.Web Service File
5. WPF application page 6. Web User Control 7. ASP.Net Code Behind with C#
8. Cascading Style sheet 9.Web configuration file 10. SQL Server Database file
(B) Write a web application to demonstrate use of session and cookie with proper [5] example
(C) Explain Master page in Web Base and Window base Application. Write steps to [5] create and use for child page for both types of application

OR

- (C) Explain and demonstrate Repeater control by writing suitable code in HTML or [5] code behind to display list of products with code and price

- Q-5** (A) Define Web Service in .NET. How to create and consume the web service in .NET? [5]
(B) Which are the types of event for ASP.NET page? Explain the Page execution in [5] ASP.NET with main events executed when page is requested

OR

- (A) Explain use of WCF in .Net framework with its basic three components. Create and [5] consume WCF service by Web application
(B) What is validation in web development? List the different input validation controls. [5] Create a web application to demonstrate any three validation controls

- Q-6** (A) What is AJAX and how can we use AJAX controls in ASP .Net? Give ASP.Net [5] code to use AJAX GridView control in web application
(B) Explain Internal and external Cascading Style Sheet (CSS) and write code to wrap it [5] with student registration detail web page

OR

- (A) What is WF and use of it in .Net framework? Write an application to print student [5] result PASS or FAIL if marks for subject .net is <40 or ≥ 40 respectively
(B) What is GDI+? Develop windows application to demonstrate it [5]

KADI SARVA VISHWAVIDYALAYA
BE SEMESTER - VI (ATKT) Examination November-2015
Subject Code: CE 605-2 / IT 605-2
Subject Name: Advance .Net Technology

Date: 05/11/2015**Time: 10:30 am to 01:30 pm****Total Marks: 70****Instructions:**

1. Answer each section in separate answer sheet.
2. Use of scientific calculator is permitted.
3. All questions are Compulsory.
4. Indicate clearly, the option you attempt along with its respective question number.
5. Use the last page of main supplementary of rough work.

Section-I

- Q-1** (A) Draw and Explain layered .Net framework architecture. [5]
 (B) Explain the terms: -CLR - MSIL -CLS -GAC - Assembly Manifest [5]
 (C) Explain compilation process of .Net frame work program. Explain various components in this process. [5]

OR

- (C) What is destructor? Explain various methods to implement destructor in .Net with proper code. [5]

- Q-2** (A) What is Exception in .Net? Explain ArrayIndexOutOfBounds exception handling with example in C#. [5]
 (B) Differentiate between following terms regarding .Net framework [5]
 - Array and ArrayList
 - Indexer and properties

OR

- (A) What is method overloading and overriding? Create VB.Net console application to demonstrate both concepts. [5]
 (B) Differentiate between following terms regarding .Net framework [5]
 - Managed and Unmanaged Code
 - ADO and ADO .Net

- Q-3** (A) What is GDI+? Develop windows application to demonstrate it. [5]
 (B) What do you mean by Thread? State its advantages. Describe Thread priorities. Also give VB.Net code to implement it. [5]

OR

- (A) What is Dialog control? Explain following Dialogs control with its usage. [5]
 - (i) SaveFileDialog
 - (ii) OpenFileDialog
 (B) Explain Event and Delegate with Example in C# [5]

Section-II

- Q-4** (A) What is the use and extension of following: [5]
1. ASP.Net page 2. Master Page
5. WPF application page 6. Web User Control
8. Cascading Style sheet 9. Web configuration file
10. SQL Server Database file
- (B) What is validation in web development? List the different input validation controls. [5]
Create a web application to demonstrate any three validation controls.
- (C) Draw and Explain ADO .Net architecture. [5]
- OR**
- (C) Develop a web application to connect, view and data manipulation functions on [5]
SQL Server database using SqlConnection, SqlCommand, SqlDataAdapter.
- Q-5** (A) Develop a web application to demonstrate use of session and cookie with proper [5]
example.
- (B) Explain following ASP.Net controls with suitable example [5]
1. CheckBoxList 2. Image 3. HyperLink
- OR**
- (A) Which are the types of event for ASP.NET page? Explain the Page execution in [5]
ASP.NET with main events executed when page is requested
- (B) Explain following properties of GridView control. [5]
(1) PageSize (3) CaptionAlign
(2) SelectedIndex (4) BackImageUrl
- Q-6** (A) Implement Web Service in .NET to print Hello World. Create a web application and [5]
write steps to consume the web service from that web application with code.
- (B) Explain use of WCF in .Net framework with its basic three components. Create and [5]
consume WCF service by Web application.
- OR**
- (A) Explain Internal and external Cascading Style Sheet (CSS) and write code to wrap it [5]
with student registration detail web page
- (B) What is WF and use of it in .Net framework? Write an application using WF to print [5]
whether the candidate is Eligible or Not-Eligible to vote in election by entering and
verifying the age of person with other detail.

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KADI SARVA VISHWAVIDHYALAYA

B.E. Semester VI Examination – April – 2015

CE 505 / IT 505 – PYTHON PROGRAMMING

DATE: 06/05/2015

TIME: 10.30 AM to 1.30 PM

TOTAL MARKS: 70

Instructions:

- 1 Answer each section in separate answer sheet.
- 2 Use of scientific calculator is permitted.
- 3 All questions are **Compulsory**.
- 4 Indicate **clearly**, the options you attempt along with its respective question number.
- 5 Use the last page of main supplementary for **rough work**.

SECTION – I

Q-1 A Give the output of following code. 10

```
1 mylist = [ [ 1, 2], [3, 4] ], [ [5, 6], [7, 8] ] ]
print mylist[1][0][0], mylist[-1][0][0]
2 print type(map(lambda x : x+2, range(0,4)))
3 list=[(),[],None,'None',]
print list[-1][1]
4 s1 = set([32, 23, 47, 67])
s2 = set([23, 47, 14, 26])
s3 = set([67, 90, 32, 47])
print set.intersection(s1, s3, s2)
5 from collections import deque
queue = deque([1,2,3,4,5])
val = queue.popleft();
print val
val = queue.pop();
print val
```

Q-1 B Explain concept of multiple inheritance and method overriding with an example. 5

OR

Q-1 B List out the features of python. 5

Q-2 Answer the following questions.

- A Give the syntax, use and example of ljust() and title(). 5
B Give the syntax, use and example of difference() and symmetric_difference(). 5

OR

- A Differentiate between instance method and static method with an example. 5
B Differentiate between instance variable, class variable and local variable with an example. 5

Q-3 Answer the following questions.

- A Suppose we have a list called list1=[0.5, 45.6, [[0.5, 34], 12], 45, (34, 45.6), 0]. 5
Process this list such that output list only contains unique items.
(Hint: output=[0.5, 45.6, 34, 12, 45, 0])
- B Demonstrate the concept of operator overloading with an example. 5

OR

- A What is the use of class method? How it can be declared and used in python 5
program?
- B What is the use of dictionary in python? What are the ways to define dictionary? 5

SECTION – II

Q-4 A Find out error(s) in the following code, if any and correct it. 10

- 1 list=[1, 2, 3]
list.extend([4,5])
print list
- 2 list=[1, 2, 3]
list.append(4,5)
print list
- 3 data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]
print data[-1] [-1] [-1]
- 4 F=lambda X : X = 10
print F(10)
- 5 list=[(),[], None, 'None',]
print list[2][1]

Q-4 B Implement the concept of echo server and client using socket programming in 5
python.

OR

Q-4 B Implement the concept of time server and client using socket programming in 5
python.

Q-5 Answer the following questions.

- A List out and explain ways of importing a module in a python file. 5
- B Explain the concept of default argument with an example. 5

OR

A Write a python program to create customize exception for checking string 5
length. If string length is more than 10 or less than 5 then customize exception
must be thrown.

B Explain filter() and reduce() with their syntax and example. 5

Q-6 Answer the following questions.

A Give output of the following.

1 `t='abc'`

`print type(t)`

`t='abc',`

`print type(t)`

2

2 `print filter(lambda x : (x%2) == 0 , range(-5,6))`

2

3 `tuple2 = (231,'ert')`

1

`tuple3 = tuple2 + (746,)`

`print cmp(tuple2,tuple3)`

B What is the use of getter and setter method? Define the ways to implement it.

5

OR

A Give syntax and example of following string functions:

i. `strip()` ii. `join()`

5

B How the concept of constructor and destructor can be implemented in python?

5

KADI SARVA VISHWAVIDYALAYA

, GANDHINAGAR

B.E. Semester- VI (CE,IT)

DATE : 6/5/2015

TIME : 10:30 TO 1:30

TOTAL MARKS : 70

SUBJECT CODE: CE 605-1/ IT 605-1

ADVANCE JAVA PROGRAMMING

Instructions:

1. Attempt all Questions.
 2. Figures to the right indicate full marks.
 3. Indicate clearly, the options you attempt along with its respective Que.No.
 4. Answer each section in separate Answer sheet.
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SECTION - I

- Q-1.** a) Explain different windows panes to place swing components. Write use of each pane. 5
- b) Compare following terms: 5
- 1) AWT and Swing,
 - 2) Toggle button and check box.
- c) Write a event handling program in swing that uses all swing components. 5
- OR**
- c) Write a program to call and store a stored procedure using JDBC. Procedure should have in and out parameters. 5
- Q-2.** a) Explain type 3 and 4 drivers. And which driver is suitable to develop an enterprise application? 5
- b) Explain internationalization with appropriate example. 5
- OR**
- a) Explain following terms: Prepare statement, URL class, URLconnection class, port and socket. 5
- b) Explain BLOB and CLOB with example. 5
- Q-3.** a) Write a program to find length of string using Remote method invocation. 5
- b) Explain JNDI in detail. 5
- OR**
- a) What is the use of RMIServer? Explain architecture of RMI. 5
- b) Write a program to find area of rectangle using connection oriented communication. 5

SECTION - II

Q-4. a) What is an enterprise architecture? Explain different technologies of java enterprise edition. 5

b) Explain life cycle of Servlet. State importance of context and configuration objects. 5

c) What is container? Explain importance of different containers in detail. 5

OR

c) What is HTTP? Explain different methods of HTTP. 5

Q-5. a) What is Servlet filter? Explain necessary API for filter. 5

b) Write a web application to display following forms : 5

- 1) Registration form,
- 2) Servlet for database connectivity.

OR

Q-5. a) What is session? Explain different methods of session tracking. 5

b) Implement a Servlet that find factorial of an entered number. Use two filters in a chain such that first filter checks the number for valid format and second filter checks it should be less than 20. 5

Q-6. a) Explain the following with respect to JSP Unified EL. 5

- 1) Value expressions,
- 2) Method expressions.

b) Write a program to print first twenty five prime numbers using JSTL. 5

OR

Q-6. a) Explain features and tags of SQL tag library. 5

b) Create JSP page that prints time table of your semester. 5

*******BEST OF LUCK*******

Enrollment No.							
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KADI SARVA VISHWA VIDYALAYA
B.E. Semester-VI Examination (November / 2015)

SUBJECT CODE: IT-605-1
 DATE: 5/11/2015

SUBJECT NAME: Advance Java Programming
 TIME: 10.30 A.M. to 01:30 P.M.

TOTAL MARKS: 70

Instructions:

1. Answer each section in separate Answer Sheet.
2. Use of scientific Calculator is permitted.
3. All questions are compulsory.
4. Indicate clearly, the options you attempted along with its respective question number.
5. Use the last page of main supplementary for rough work.

SECTION - 1

- Q-1.** a) State difference between AWT and Swing. 5
 b) Explain swing components in detail. 5
 c) Write a program to design job recruitment form. 5

OR

- c) Write a program to update and delete student records using JDBC. 5

- Q-2.** a) Explain type 3 and 4 drivers. 5
 b) Explain object serialization with appropriate example, 5

OR

- Q-2.** a) What is difference between port and socket? Explain socket in detail. 5
 b) Explain binary large object with example. 5

- Q-3.** a) Explain content and protocol handler in detail. 5
 b) Write a program to check whether entered string is palindrome or not using remote method invocation. 5

OR

- Q-3.** a) Explain RMI architecture. 5
 b) Write a program to find area of circle using UDP. 5

SECTION – 2

- Q-4.** a) Write short note on J2EE architecture. Explain various components. 5
b) Difference between context and configuration objects. 5
c) Explain Servlet Life Cycle with example to demonstrate every state. 5

OR

- c) Discuss HTTP protocol in detail. 5

- Q-5.** a) What is doFilter () method? What are its parameters? Give its use with proper example. 5
b) Write a Web application using servlet to find the multiplication of all the digits of an input integer. 5

OR

- Q-5.** a) Explain different methods of session tracking. 5
b) Implement a servlet that checks whether entered number is Armstrong or not. 5
Use two filters in a chain such that first filter checks the number for valid format and second filter checks it should not be less than 100.

- Q-6.** a) Explain various tags in JSTL with example: 1) SQL 2) Functions. 5
b) Write a program to print factorial of a number using JSTL. 5

OR

- Q-6.** a) Show the use of JSP page directive tag with its attributes. 5
b) Create JSP page that displays mark sheet of a student using database connectivity. 5

*******BEST OF LUCK*******