

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER VI • EXAMINATION – SUMMER 2017

Subject Code: 3360701**Date: 02-05-2017****Subject Name: Advance Java Programming****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of programmable & Communication aids are strictly prohibited.
5. Use of only simple calculator is permitted in Mathematics.
6. English version is authentic.

Q.1

Answer any seven out of ten. દશમાંથી કોઇપણ સાતના જવાબ આપો.

14

1. List four methods of an applet.
૧. Applet ની ચાર મેથડ ની યાદી બનાવો.
2. List any four methods provided by Component in Java.
૨. Java માં component દ્વારા આપવામાં આવતી ચાર મેથડ ના નામ જણાવો.
3. State why an adapter class is useful.
૩. Adapter class ની અગત્યતા જણાવો.
4. State two difference between GET Request and POST Request.
૪. GET Request અને POST Request ના બે તફાવત જણાવો.
5. List two methods of JSP life cycle which can be overridden.
૫. JSP life cycle ની બે method ના નામ જણાવો જે overridden થાય છે.
6. Define JSP page.
૬. JSP page ની વ્યાખ્યા આપો.
7. List four common JDBC exceptions.
૭. JDBC ના ચાર exceptions ની યાદી આપો.
8. State two difference between SWING and AWT.
૮. SWING અને AWT વચ્ચે ના બે તફાવત જણાવો.
9. Define Frame and state two ways to create a frame.
૯. Frame ની વ્યાખ્યા આપો. અને frame બનાવવાની બે રીત જણાવો.
10. Write the name of class used to create input Dialog box in Java.
૧૦. Java માં input Dialog box બનાવવા માટે વપરાતી class નું નામ આપો.

Q.2

(a) Describe the difference between applet and application.

03**પ્રશ્ન. ૨**

(અ) Applet અને application વચ્ચે નો તફાવત વર્ણવો.

03**OR**

(a) Explain parameter passing in Applet.

03

(અ) Applet માં parameter passing સમજાવો.

03

(b) Differentiate border layout and flow layout.

03

(બ) Border layout અને flow layout ને અલગ કરો.

03**OR**

- (b) Differentiate checkbox and radio button. **03**
- (બ) Checkbox અને radio button ને અલગ કરો. **03**
- (c) Explain event delegation model. **04**
- (ક) event delegation model સમજાઓ. **04**

OR

- (c) Describe mouse listener and mouse events using proper example. **04**
- (ક) mouse listener અને mouse events ને ઉદાહરણ સાથે વર્ણવો. **04**
- (d) Write an applet that sets the background color to yellow and draw circle of radius 50 pixels centered in the middle of the applet. Fill the circle with red color. **04**
- (ડ) Write an applet that sets the background color to yellow and draw circle of radius 50 pixels centered in the middle of the applet. Fill the circle with red color. **04**

OR

- (d) Write an applet that tracks the position of mouse when it is dragged or moved. Draw a 10 x 10 pixel rectangle filled with green at the current mouse position. **04**
- (ડ) Write an applet that tracks the position of mouse when it is dragged or moved. Draw a 10 x 10 pixel rectangle filled with green at the current mouse position. **04**

- Q.3** (a) Explain any one SWING component with example. **03**
- પ્રશ્ન. 3** (અ) SWING ના કોઈ પણ એક કોમ્પોનેન્ટ ને સમજાઓ. **03**

OR

- (a) Explain panel in java with example. **03**
- (અ) Java માં panel ઉદાહરણ સહિત સમજાઓ. **03**
- (b) Write an applet that receives three numeric values as input from user and display the average of three on screen. **03**
- (બ) Write an applet that receives three numeric values as input from user and display the average of three on screen. **03**

OR

- (b) Write an applet that receives one string and display in reverse fashion(e.g. “gujarat” should be display “tarajug”). **03**
- (બ) Write an applet that receives one string and display in reverse fashion(e.g. “gujarat” should be display “tarajug”). **03**
- (c) Write an applet that contains a check box group with three check boxes labeled “Red”, “Green” and “Blue”. There is also a 30 x 30 pixel canvas. The selections of the check boxes determine the color of the canvas. **04**
- (ક) Write an applet that contains a check box group with three check boxes labeled “Red”, “Green” and “Blue”. There is also a 30 x 30 pixel canvas. The selections of the check boxes determine the color of the canvas. **04**

OR

- (c) Write an applet that contains with three check boxes labeled “Red”, “Green” and “Blue”. There is also a 30 x 30 pixel canvas. The Selections of the check boxes determine the color of the canvas. For example, the user select both “Red” and “Blue” the canvas should be purple. **04**
- (ક) Write an applet that contains with three check boxes labeled “Red”, “Green” and “Blue”. There is also a 30 x 30 pixel canvas. The Selections of the check boxes determine the color of the canvas. For example, the user select both “Red” and “Blue” the canvas should be purple. **04**
- (d) Explain the process of creating a frame and adding a button to it. **04**

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|------------------|-----|---|----|
| | (S) | Frame બનાવવાની અને એમાં button add કરવાની રીત સમજાઓ. | 0૪ |
| | | OR | |
| | (d) | Explain the hierarchy of classes in the java.awt package. | 04 |
| | (S) | Java.awt package ની class hierarchy સમજાઓ. | 0૪ |
| Q.4 | (a) | Explain JDBC architecture. | 03 |
| પ્રશ્ન. ૪ | (અ) | JDBC architecture સમજાઓ. | 0૩ |
| | | OR | |
| | (a) | List different categories of JDBC driver explain any one. | 03 |
| | (અ) | JDBC Driver ની જુદી જુદી કટેગરી ની યાદી બનાવો અને કોચે એક સમજાવો. | 0૩ |
| | (b) | Explain steps to get Database connection in a java program. | 04 |
| | (બ) | Java program માં database connection ના સ્ટેપ્સ સમજાવો. | 0૪ |
| | | OR | |
| | (b) | Explain different types of ResultSet in JDBC. | 04 |
| | (બ) | JDBC માં ResultSet ના જુદા જુદા ટાઇપ્સ સમજાવો. | 0૪ |
| | (c) | Explain life cycle of JSP page. | 07 |
| | (ક) | JSP page નો life cycle સમજાવો. | 0૭ |
| Q.5 | (a) | Write Servlet to read parameters using POST method. | 04 |
| પ્રશ્ન. ૫ | (અ) | Write Servlet to read parameters using POST method. | 0૪ |
| | (b) | Explain how servlet application works. | 04 |
| | (બ) | Servlet application કેવી રીતે કામ કરે તે સમજાવો. | 0૪ |
| | (c) | Explain how HTTP Request handled by servlet. | 03 |
| | (ક) | Servlet માં HTTP Request કેવી રીતે handle થાય તે સમજાવો | 0૩ |
| | (d) | Explain life cycle of Servlet. | 03 |
| | (S) | Servlet નો life cycle સમજાવો. | 0૩ |
