

Advanced Java Visual C++

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Science Computer Science

TYBSc

University of Mumbai

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- N.B.** (1) All questions are compulsory.
 (2) **Figures** to the **right** indicate marks.
 (3) Answers to **two** sections must be written and submitted **separately** and mixing of subsections is **not allowed**.
 (4) **Symbols** have their **usual** meaning unless otherwise stated.
 (5) Illustrations, in-depth answers and diagrams will be **appreciated**.

Section I

1. (a) Explain any **two** of the following classes :— 6
 (i) URL
 (ii) InetAddress
 (iii) Datagram Packet.
 (b) What is the default layout of frame and applet ? Explain it with example. 6
 (c) Write a java program to display form for accepting number. If number is less than 100 then display message dialog to show "Number is too small". 5
- OR**
1. (p) Explain in brief terms : Light-Weight component, Heavy-Weight component, Pluggable Look and Feel. 6
 (q) Explain how to create and use Checkboxes and radio buttons with example. 6
 (r) Write a server program to send welcome note to client who connects to the server. 5
2. (a) Explain various types of properties of Java bean. 5
 (b) Write short notes on :— 6
 (i) Serializable,
 (ii) BeanInfo.
 (c) Write a bean containing a text field that accepts a number and performs validation. 5
- OR**
2. (p) Explain general procedure of testing bean under JDK. 5
 (q) How to create bound property in bean ? Explain various classes used to create the same. 6
 (r) Write a bean, which will display Circle or rectangle on canvas, after changing its shape property. 5
3. (a) Explain the use of HttpSession with at least three methods of it. 6
 (b) Write short note on JSP elements. 6
 (c) Write a servlet that accepts salesman no and total sales. Then depending on sales, calculate commission and send it to client. 5
 [If sales is less than 25000, then commission is 10%, if sales is between 25000 and 75000 then commission is 15% else commission is 20%].
- OR**
3. (p) Explain role of ResultSet object in JDBC. 6
 (q) Explain any three methods of HttpServletResponse. 6
 (r) Write a JSP to print sum of 1 to N numbers. Number N is accepted from sum.html. 5

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Section II

4. (a) Explain the structure of a Windows program. 6
 (b) Explain the following terms :— 6
 (i) API
 (ii) DLL
 (iii) handle
 (c) Write a MFC program to display the area name that user has clicked in non-client area. 5
- OR
4. (p) What are mouse messages and how are they handled in MFC ? 6
 (q) Write short notes on following :— 6
 (i) Invalidating the Client area
 (ii) CWinApp
 (r) Write a MFC program to display a triangle at left mouse click and oval at right mouse click. 5
5. (a) Write short note on CMenu class. Also give the member functions which are used to insert and modify items. How menu items can be related to keyboard short cuts ? 6
 (b) Explain following functions with respect to CScrollBar class :— 6
 (i) OnHScroll
 (ii) SetScrollRange
 (iii) SetScrollPos
 (c) Write a MFC program to create a combo box consisting of television channels and a button. On click of button, the name of selected channel from combo box should be displayed in client area. 5
- OR
5. (p) Write a note on Dialog Data Exchange and Dialog Data Validation. 6
 (q) Explain following functions with respect to CMenu class :— 6
 (i) AppendMenu
 (ii) OnInitMenuPopup
 (r) Write a MFC program to create three radio buttons which indicate red, green and blue colors. On clicking them line should be drawn in that color. 5
6. (a) Write short note on Document view Architecture. 5
 (b) Explain the use of following function with respect to toolbar along with their parameters :— 6
 (i) SetButtonText
 (ii) SetButtons
 (iii) SetButtonStyle
 (c) Write a MFC program to store a record in a file using CStdioFile. 5
- OR
6. (p) Explain the concept of Serialization in detail. 6
 (q) Explain following classes :— 5
 (i) CRecordSet
 (ii) CFile
 (r) Write a MFC program to show status of shift and toggle keys and current mouse coordinates in Status bar's panels. 5