

IT601 - Java Programming

P. Pages : 2

Time : Three Hours



GUG/W/16/5383

Max. Marks : 80

- Notes :
1. Same answer book must be used for all questions.
 2. All questions carry marks as indicated.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Assume suitable data wherever necessary.
 5. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Explain the features of java? **6**
b) Explain command line arguments in java? **6**
c) Write a java program to find biggest element in an array? **4**

OR

2. a) Write a java program which converts a string vector into an array of strings? **8**
b) Explain all the methods of wrapper classes? Write any java code which makes the use of wrapper classes? **8**
3. a) What is multithreading? calculate the sum of $\sin^2(60) + \cos^2(30) + \tan^2(45)$ using threads? **8**
b) What is interface? Write a java program to achieve multiple inheritance using interface? **8**

OR

4. a) Explain the life cycle of thread along with it all methods? **6**
b) Implement single inheritance in java using super keyword? **6**
c) What are packages? Discuss some java API packages? **4**
5. a) Explain how finally keyword is used in exception handling? **6**
b) What are applet? Explain life cycle of an applet? **6**
c) Explain come common java exceptions? **4**

OR

6. a) Design an applet which accepts input from user? **6**
b) Write a program in java to catch invalid command line arguments? **6**
c) Explain all the methods of an applet? **4**

7. a) Explain serialization in java? **8**
- b) Write a program in java which stores and retrieves. integers using data streams on a single file? **8**

OR

8. a) Write a program in java which copies character from one file into another? **6**
- b) Write a program in java which concatenates two files into third file? **6**
- c) Explain character stream classes? **4**
9. a) What is socket programming? Write a java program for socket in which client sends a text and server receives it? **10**
- b) Write a java program to display the IP address of a host machine? **6**

OR

10. a) Write a java program for sending datagram packet? **6**
- b) Explain following methods? **6**
- | | |
|----------------|-----------------------|
| 1) readUTF () | 2) writeUTF () |
| 3) accept () | 4) getProtocol () |
| 5) getHost () | 6) getHostAddress () |
- c) Explain java URL class? **4**
