

Evening

D.: 24/05/2014.

Seat No. _____

GANPAT UNIVERSITY
B. Tech. Semester VI (EC)
CBCS Regular Examination May/June 2014
2EC606 OBJECT ORIENTED PROGRAMMING

TIME: 3 HOURS]

[TOTAL MARKS: 70

INSTRUCTIONS:

1. Attempt all questions.
2. Answers to the two sections must be written in separate answer books.
3. Figures to the right indicate full marks.
4. Assume suitable data, if necessary.

SECTION-I

Q:1 (A) Which technique has made java a *platform independent language*? 6
Demonstrate with the help of diagram.

(B) What is the use of Command line argument in Java? Explain with an 6
example.

OR

Q:1 (A) What is the use of constructor? Explain constructor overloading with 6
example.

(B) How can we supply run time argument to the Java application? Explain 6
with suitable example.

Q:2 (A) Provide a brief note on *Abstract classes* in java. 6

(B) Write a program to receive 10 names from user during runtime. Display 5
only those names which begin with Vowel. – Vowels are : A,E,I,O and U.

OR

Q:2 (A) Why some methods in java are declared as *static methods*? Support your 6
answer with example code.

(B) Write a program that keeps track of how many objects have already been 5
created. Class has a method *TellMeTotal()* which prints total number of
objects already created. This method is common among all the objects.

Q:3 (A) Explain the use of *super* and *this* keywords in java. 4

(B) Provide a brief note on Enhanced for loop. What is the limitation of this 4
loop?

(C) Explain the typical declaration of main method in Java. 4

SECTION-II

Q:4 (A) Draw only the diagrams for following : 6

1. Any 3 forms of inheritance
2. Any 3 forms for implementing interface

(B) Write a brief note on commonly used API packages in java. 6

OR

Q:4 (A) Enlist four steps involved in Exception Handling mechanism. Give a brief idea about any six Exceptions in Java. 6

(B) Which are the salient features of Vector? Enlist the important Vector methods. 6

Q:5 (A) Draw and explain the State transition diagram of a thread. 6

(B) With the help of program, explain how parameter can be passed to an Applet from HTML file. 5

OR

Q:5 (A) What are the steps involved in implementing the 'Runnable' interface for creating thread? Write an example code to create such thread. 6

(B) Justify the following statement.
"Since Applets are designed for the internet, they have certain limitations and restrictions" 5

Q:6 (A) Create an applet that allows user to enter his/her full name in given textbox. On pressing enter key, it shows only the initial letters of full name. 6

(B) m1 and m2 are String objects. Assume they are properly initialized. m1 and m2 have length of 20 characters. Provide the correct method syntax for the following. 6

1. To put letter 'B' everywhere in String m1 in place of letter 'G'.
2. To check whether m1 and m2 Strings are exactly same or not (Case sensitive)
3. To arrange m1 and m2 in alphabetical order
4. To join String m2 after m1.
5. From the String m2, grab the String starting from letter 4 till the end.
6. To find the location of letter 'K' after 9th position in String m1.

End of Paper