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322553 (22)

BE (5ᵗʰ Semester)

Examination, Nov.-Dec., 2014

Branch : CSE

PROGRAMMING IN JAVA (NEW)

Time Allowed : Three Hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : (i) Part (a) is compulsory, attempt any 2 from (b)

(c) and (d).

(ii) Part (a) carry 2 marks and (b), (c), (d) carry 7

marks.

Q. 1. (a) How many types of parameter passing does

java support, name them ? **2**

(b) Briefly explain the features of Java ? **7**

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(c) Explain the concept of static variable. Declare

a class student that contain marks of 3

subjects and that class also contain two

methods. **7**

(i) void input ( ).– that takes the value of the

attributes of the class.

(ii) void average ( ) – that calculate the

average marks of each student.

Now if a class consist of 50 students then

calculate the average marks of the class

average marks of each student will be added

and then you have to find the class average

by using the concept of static variable.

3 Compare Java with C++ ?

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Q. 2. (a) Which class is the top most class of exception

class hierarchy ? 2

(b) how super keyword is used to call super

class constructor ? Explain it with suitable

example. 7

(c) What is an interface ? How it is different from

abstract class ? Write a source code for

explaining the concept of interface ? 7

(d) Write the program by using the concept of

package make the given methods in one

package named as pack 1 for

• Prime or not.

• Even or odd

and then import this package to write a code

that uses this method to check a particular

number on the above methods ? 7

Q. 3. (a) Which exception is generated when a thread

is interrupted, name it ? 2

(b) How many ways are there to create thread in

java, name them. Briefly explain the life cycle

of a thread. 7

(c) Write a java program that enters a 10 digit

string as a typical US telephone number,

extracts the first 3 digit as area code, then

next 3 digit as exchange no and the remaining

4 digit no as separate string and print it ? 7

(d) Write a java program to read a character file, named as sample.txt line by line and display its contents with line numbers ? 7

Q. 4. (a) Write a java code to see the port number, protocol name of given URL ? 2

(b) Explain applet life cycle and how applet tag in html allow you to pass parameter to your applet with suitable example ? 7

(c) Write a multiline chatting program of client and server side by using TCP socket. 7

(d) Write short note on : 7

   (i) Delegation event model

   (ii) Adapter classes

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Q. 5. (a) Write the difference between applet and application. 2

(b) Write a program that will provide graphical user interface to perform addition of two numbers ? 7

(c) Explain layout manager ? 7

(d) What is an object class and explain its different methods ? 7

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