Code: 17F00204

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MCA II Semester Regular & Supplementary Examinations May/June 2019

JAVA PROGRAMMING

(For students admitted in 2017 & 2018 only)

Time: 3 hours Max. Marks: 60

Answer all the questions

- (a) Illustrate the use of different operators used in java with an example.
 - (b) Write a java program that accepts four integers from the user and prints equal if all four are equal, and not equal otherwise.

OR

- (a) Explain the important features of java.
 - (b) Demonstrate the use of while and do-while statements for displaying all the prime numbers up to n.
- Write a java program to create a two-dimensional array of order m x m and assign the elements of array A[j[] such that A[i][j] is true if i and j are prime and have no common factors, otherwise A[i][j] becomes false.

OR

- 4 (a) Explain various access specifiers supported by java with an example.
 - (b) Write a java program to perform the following functions using classes, objects, constructors and destructors wherever necessary:
 - Read 5 subjects marks of 5 students.
 - (ii) Calculate the total and print the result on the monitor.
- 5 (a) Define an interface named IntStack with two operations Push() and Pop(). Define a class called stack that implements IntStack. Write a java program to reverse the array elements using the above class.
 - (b) Distinguish between method overloading and method overriding with an example.

OR

- 6 (a) Write the steps for creating and accessing packages in java.
 - (b) What are the various types of exceptions available in java? Demonstrate the use of exception handling mechanism used in java with an example program.
- Write an applet application which will display colours in list box and a scrolling banner which scrolls from left to right within a browser. When user selects any colour from the list, it should change the colour of scrolling banner.

OR

- 8 (a) Explain thread life cycle and thread creation in java.
 - (b) Write a java program to concatenate two given files. Give names of files using command line arguments.
- 9 (a) Write a program to create a frame for a simple arithmetic calculator using swing components and layout managers.
 - (b) Write a program to handle keyboard events.

OR

- 10 (a) What is the significance of layout managers? Discuss briefly various layout managers.
 - (b) Write an example java program that displays four push buttons and a text field. Each button displays an icon that represents the flag of a country. When a button is pressed, the name of that country is displayed in the text field.

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