

AU – 2535

Third Semester B. E. (Computer Science and Engg.) (CGS) Examination

PROGRAMMING METHODOLOGY

Paper – 3 KS 02/3 KE 02

(USC – 10304)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) Separate answer book must be used for each section in the subject Geology, Engineering material of civil branch and Separate answer book must be used for Section A and B in Pharmacy and Cosmetic Tech.
- (2) Answer **Three** questions from Section A and **Three** questions from Section B.
- (3) Due credit will be given to neatness and adequate dimensions.
- (4) Assume suitable data wherever necessary.
- (5) Illustrate your answer wherever necessary with the help of neat sketches.
- (6) Use pen of Blue/Black ink/refill only for writing the answer book.

SECTION A

1. (a) Justify each of the following statements above java :
- (i) Java is operating system independent
- (ii) Java is safe and secure.
- (iii) Java is small and simple. 6
- (b) Write a Java program to print the square of first 20 odd numbers. 7

OR

2. (a) Describe various data types supported in java with example. 7
- (b) Write 'for', 'do-while' and 'while' statements to compute the following product
- 1*2*3**25 6
3. (a) What is method overloading ? Explain with the help of program. 6

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- (b) What is array ? Explain types of array. How to declare two dimensional array and how to initialize it ? 7

OR

4. (a) Explain the difference between class data value and instance data value with an example. 6
(b) What is constructor ? Write Java application which demonstrate constructor overloading. 7
5. (a) What is inheritance ? Explain multilevel inheritance with example. 7
(b) What are packages ? How are they created ? Illustrate with an example. 7

OR

6. (a) What is an interface ? Explain with an example. Differentiate it with an abstract class. 7
(b) Explain abstract classes with an example. 7

SECTION B

7. (a) Write a Java program that handles multiple exception. 7
(b) List out various methods associated with file object and explain with an example. 6

OR

8. (a) Write a Java program to read character stream using file Reader. 6
(b) What is exception handling mechanism ? Write an application which handles arithmetic and array Index out of Bound Exception. 7
9. (a) Explain difference between applet and application program. 7

- (b) Write an applet to draw rectangle, rounded rectangles and fill rectangles inside applet visible area. 6

OR

10. (a) Explain graphic class and color class in detail and also with its constructor and methods. 7
- (b) Write an applet to demonstrate use of `getParameter ( )` method to pass parameters to your applet from applet tag in HTML. 6
11. (a) Explain Delegation model with example. 7
- (b) Write a simple applet using label, textfield and Button GUI objects, when the user click on button the applet will display the area of triangle. 7

OR

12. (a) Explain :
- (i) Event Sources
 - (ii) Event Listener
 - (iii) Mouse Listener
 - (iv) Key Listener. 7
- (b) Write a simple applet to implement all the methods of mouse listener and mouse motion listener. 7

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