PSMCAT101 - Java Concepts Paper - I

P. Pages : 1   ‖‖‖‖‖‖‖‖‖‖‖‖‖   **GUG/W/18/11086**

Time : Three Hours   *3199*   Max. Marks : 80

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Notes :   1.   All questions are compulsory and carry equal marks.
            2.   Draw neat and labeled diagram and use supporting data wherever necessary.
            3.   Avoid vague answer and write specific answers related to questions.

1.   Either:-

   a)   What is process Analysis? Explain types of Algorithm in details.   **8**

   b)   What is Analysis of Algorithm? Explain Advantages And disadvantages of Algorithm in detail.   **8**

OR

   c)   What is flow chart? Explain different types of flowchart in details.   **8**

   d)   What is pseudo code? Explain its characteristics in details.   **8**

2.   Either:-

   a)   Explain for loop with its syntax & example in detail.   **8**

   b)   Explain different types of operators. Write a sample program to demonstrate different operators.   **8**

OR

   c)   What is type casting? Explain Java virtual Machine in details.   **8**

   d)   What is string? Explain different string method giving sample example.   **8**

3.   Either:-

   a)   What is object of a class? Explain and features of an object in detail.   **8**

   b)   Write a program to constructor overloading to calculate Area of Room.   **8**

OR

   c)   Write a program to demonstrate the Runnable interface.   **8**

   d)   Explain Exception Handling with example.   **8**

4.   Either:-

   a)   Explain Applet life cycle in details with suitable example.   **8**

   b)   Create a student login page using Any four controls.   **8**

OR

   c)   Write a short notes on: **8**
       i)   Border layout   ii)   Grid Layout

   d)   Write a AWT program to demonstrate event handling (use employee salary example)   **8**

5.   Solve all questions.

   a)   Write a short notes on conceptual development of solution.   **4**

   b)   List on Data Types in Java. Explain any two data type.   **4**

   c)   Write a short notes on Data members.   **4**

   d)   Write a short notes on check Box.   **4**

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