C 26253 (Pages : 3) Name..

Reg. No.....................................

SECOND SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2017

Software Development

SDC 2IT 06—PROGRAMMING IN JAVA

Time : Three Hours   Maximum : 80 Marks

Part A

Answer **all** *questions.*

1. Which of the following concepts of OOPS means exposing only necessary information to client ?

   (a) Encapsulation.   (b) Abstraction.

   (c) Data hiding.   (d) Data binding.

2. The term API stands for —————.

3. 'final' is used to :

   (a) Create a named constant.   (b) Prevent overriding.

   (c) Prevent inheritance.   (d) All of the above.

4. All methods and variables in Interface are implicitly —————.

   (a) Public.   (b) Private.

   (c) Protected.   (d) None of these.

5. An abnormal condition that arises in a code sequence at run time is —————.

   (a) Exception.   (b) Event.

   (c) Invocation.   (d) None of these.

6. Java byte streams are used to perform input and output for ————— bit.

7. Which of the following method is called by the browser just before an Applet is terminated ?

   (a) Destroy().   (b) Terminate().

   (c) Stop().   (d) Start( ).

8. Which is invoked after the init() method or browser is maximized ?

   (a) Public void start().   (b) Public void paint (Graphics g).

   (c) Public void stop().   (d) Public void init().

Turn over

9. The Java Foundation Classes (JFC) is a set of GUI components which simplify the development of desktop applications (true/false).

10. The Java.net.InetAddress class represents an —————.

    (a) Socket.   (b) IP Address.

    (c) Protocol.   (d) MAC Address.

(10 × 1 = 10 marks)

Part B

Answer any **eight** *questions, not exceeding a paragraph of 50 words.*

11. What is encapsulation ?

12. Why Java is considered a portable language ?

13. What is constructor ?

14. Write a note about static keyword.

15. What is serialization ?

16. Explain run( ) method in the Runnable Interface.

17. What are the different exception types in Java ?

18. Explain about Applet class.

19. Draw the class hierarchy for Panel and Frame.

20. For what purpose start() method is used ?

21. What are the differences between Swing and AWT ?

22. What is proxy server ?

(8 × 2 = 16 marks)

Part C

Answer any **six** *questions, in a page of 50 words.*

23. What are the primitive data types supported by Java ?

24. Write a program in Java to find the greatest of three numbers.

25. In which circumstance abstract class is used instead of Interface ? Explain.

26. Compare method overloading and method overriding in Java with example.

27. Explain the life cycle of a thread.

28. Write a program in Java to create a text file.

29. What is meant by an event ? Explain some event classes available in Java.

30. What are Applet life cycle methods ? Explain them.

31. Explain JDBC architecture.

(6 × 4 = 24 marks)

Part D

Answer any **two** *questions, not exceeding* **four pages.**

32. Explain in details about Java tokens.

Or

33. What are packages ? Explain any *five* built-in packages available in Java.

34. What do you mean by synchronization in multi-threading ? Explain how threads are synchronized in Java program ? Explain the concept with an example program.

Or

35. Explain various Applet display methods with example.

(2 × 15 = 30 marks)