



H 1881

Third Year B. C. A. (Sem. V) Examination
March / April - 2009
501 : Java Programming Lang.
(New Course)

Time : Hours]

[Total Marks : 70

Instructions :

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(1)

नीचे दस्तावेज भरने के समय ध्यानपूर्वक पढ़ें।
Fillup strictly the details of signs on your answer book.

Seat No. :

Name of the Examination :

Name of the Subject :

Subject Code No. : Section No. (1/2/3) :

Student's Signature

- (2) Question no.1 is compulsory.
- (3) Figures to the right indicate marks.

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I Answer in short :

- (i) Can an abstract method be declared static? Give reason.
- ✓(ii) What is Bytecode?
- (iii) What is the significance of finalize () method?
- (iv) Write an importance of CLASSPATH variable.
- (v) What are the restrictions placed on overriding a method?
- (vi) What is the difference between abstract and concrete classes?
- ✓(vii) How do interfaces support polymorphism?
- (viii) Difference between throw and throws exception.
- (ix) Difference between resume() and notify().
- (x) What is the use of import statement? Is it possible to import same package twice?

2. (a) Write the features of Java Language. 5

OR

(a) What are the features of Java? How Java is platform-independent, robust and secure? 5

(b) Write a short note on String Buffer class and its methods with example. 5

(c) What do you mean by overloading? Explain constructor overloading by giving example. 5

OR

(c) Write a program to accept 5 command line argument and then raise the custom exception if any argument is not from the list ("BCA", "MCA", "BBA", "MBA", "OTHER"). 5

3
236 (a) Explain thread priority in detail with proper example. 5

(b) What do you mean by inter thread communication? Write a program to simulate DIGITAL clock using Thread. 5

OR

(b) Write a program to implement Stack application using Thread. 5

(c) Discuss Exception handling with suitable example. Also justify that exception handling improve the quality of the s/w. 5

OR

(c) What do you mean by interface? Can we declare final to it? How does it differ from abstract class? Give example of it. 5

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4 (a) Define an exception called No Match that is thrown when a string is not equal to "college". Write a program that uses this exception.

(b) What is applet viewer? Explain the life cycle of an applet with example.

OR

(b) Write a note on Package. Give its significance.

(c) Explain index of (), last index of () with example.

OR

(c) What are the different types of applet? Discuss Applet initialization and termination methods.

5 Any three :

(a) Discuss about try, catch and finally blocks with example.

(b) What do you mean by wrapper class, why we need it?

(c) Discuss various levels of access protection available for packages.

(d) What is synchronization? When do we use it?