



BB-1901
Third Year B. C. A. (Sem. V) Examination
October / November – 2009
Paper - 501 : Java Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवली पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
T. Y. B. C. A. (Sem. 5)

Name of the Subject :
Paper - 501 : Java Programming

Subject Code No. : 1 9 0 1 Section No. (1, 2, ...) Nil

Seat No. : [] [] [] [] [] [] [] [] [] []

Student's Signature

- (2) All questions are compulsory.
- (3) Figures to the right indicate full marks.
- (4) Give an example wherever necessary.

1 Answer in short :

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- 8128943557

- (i) What is Run-time Exception? Give an example. 10
- (ii) Explain the role of finalize() in Java.
- (iii) What is an Applet? What are applications of an Applet?
- (iv) What is the use of awt package?
- (v) What do you mean by Wrapper Classes? Give an example.
- (vi) How can you differentiate interface and abstract class.
- (vii) Differentiate between capacity() and length()
- (viii) What do you mean by widening conversion?
- (ix) Why throws is used in Exception handling?
- (x) What do you mean by static members?

2 Answer the following.

- (i) What do you mean by Exception handling? Explain with example how can you create Custom Exception.
- (ii) Write a short note on StringBuffer class. Explain insert(), setLength(), delete(), ensureCapacity() functions of it.

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OR
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[Contd...

- (ii) What are the bitwise operators supported in Java? Explain any four with examples.

3 Answer in detail : (any three) 15

- (i) Explain role of access specifier in inheritance.
(ii) Explain various constructors of String class with proper example.
(iii) Explain super keyword. Where is it used? Explain with example.
(iv) Explain life cycle of Applet with suitable example.

4 Answer the following questions : (any three) 15

- (i) Explain features of Java in detail.
(ii) Explain how constructors are called in inheritance? Give proper example.
(iii) What is package? How to create it? Explain with proper example. Give any three Java API.
(iv) What do you mean by interface? Can we declare final to it? How does it differ from abstract class? Give example of it.

- (i) Explain with example any three inbuilt Exceptions and any three inbuilt methods of exception provided by Exception class. 5

OR

- (i) What do you mean by chained exception? Explain it with proper example. 5
(ii) Write a note on Inter Thread Communication. Explain Producer-Consumer problem. 5

OR

- (i) What is synchronization ? Why is it required? Explain with example. 5
(iii) Develop java program to find all rotation of a string given at command line. All conditions should be checked. 5

ex. input given at command line is: Test

Output: Test, estT, stTe, tTes