



JA-3754

Second Year B. C. A. (Sem. IV) (CBCS) Examination

March / April – 2013

Java Programming Language : Paper - 403

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशक निशानोंवाली विगतो उत्तरवही पर अवश्य दपनी. Fillup strictly the details of signs on your answer book.	Seat No.:
Name of the Examination :	<input type="text"/>
<input type="checkbox"/> S. Y. B. C. A. (Sem. - 4)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> Java Programming Language : Paper - 403 (CBCS)	<input type="text"/>
Subject Code No.:	Student's Signature
<input type="checkbox"/> 3 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4	
Section No. (1, 2,.....) :	
<input type="checkbox"/> Nil	

- (2) Attempt all questions.
(3) Figures on the right indicate marks.

- 1 Answer the following in short : 10
- (1) What is difference between abstract and concrete classes ?
 - (2) What is importance of finalize () method ?
 - (3) Define package.
 - (4) Give the difference between labeled break and labeled continue.
 - (5) What are the uses of super keyword ?
 - (6) How do interfaces support polymorphism ?
 - (7) What type of exceptions must be caught or declared ?
 - (8) What is the difference between application and applet ?
 - (9) Write an importance of CLASSPATH variable.
 - (10) List names of wrapper classes.

- 2 Do as directed : 15
- (1) Write the features of Java Language. 5

OR

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[Contd...

- (1) What do you mean by overriding ? Explain method of overriding by giving example. 5
- (2) Write a short note on StringBuffer class and its methods with example. 5
- (3) Explain life cycle of Applet with example. 5

3 Do as directed :

- (1) Explain life cycle of thread. 5
- (2) "Synchronization is necessary to avoid Deadlock" Justify. Discuss about synchronization with example. 5
- (3) Discuss exception handling with suitable example. Also justify that exception handling improves the quality of the S/W. 5

OR

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

4 Do as directed :

- (1) Can we cast incompatible types in Java ? Explain automatic type promotion rules. 15

OR

- (1) Write a program that generates **ArrayIndexOutOfBoundsException**, catch the exception and display an error message.
- (2) Explain `indexOf()`, `LastIndexOf()` with example. 5
- (3) What do you mean by overloading ? Explain constructor overloading by giving example. 5

OR

- (3) Write a note on applet and explain any three methods of Graphics class with example.

4 Do as directed : (any three)

15

- (1) Explain run time polymorphism with example.
- (2) What do you mean by wrapper class, why we need it ?
- (3) Discuss various levels of access protection available for packages.
- (4) Explain following with example :
 - (1) Difference between `>>` and `>>>`
 - (2) Difference between `length` and `length ()`.
 - (3) Difference between `&` and `&&`.
