

2017

( 5th Semester )

**BACHELOR OF COMPUTER APPLICATION**

Paper No. : BCA-501

**( Introduction to Java Programming )**

( PART : A—OBJECTIVE )

( Marks : 25 )

*The figures in the margin indicate full marks for the questions*

**SECTION—I**

( Marks : 15 )

1. Tick (✓) the correct answer in the brackets provided :

1×10=10

(a) Which of the following methods is the starting point for all Java Programs?

(i) statec ( )

(ii) void ( )

(iii) main ( )

(iv) args ( )

( 2 )

(b) Vectors, hash tables and dates belong to which package?

(i) java.applet ( )

(ii) java.util ( )

(iii) java.awt ( )

(iv) java.net ( )

(c) The compile error occurs when

(i) divide by zero ( )

(ii) to use -ve size of array ( )

(iii) an array's bout of bound ( )

(iv) setting wrong path ( )

(d) Which of the following is used for handling i/o operation on bytes?

(i) Writer stream ( )

(ii) Byte stream ( )

(iii) Character stream ( )

(iv) Read stream ( )



( 3 )

(e) When applet will not able to run, which one of the following executable files is missing?

(i) .awt ( )

(ii) .applet ( )

(iii) .javac ( )

(iv) .class ( )

(f) The output of the following code is

```
int X = 14;  
system.out.print/n ( X + +);
```

(i) 13 ( )

(ii) 14 ( )

(iii) 15 ( )

(iv) 16 ( )

(g) Which of the following enables Java to support multiple inheritance?

(i) Implements ( )

(ii) Interface ( )

(iii) Packages ( )

(iv) Final ( )



( 4 )

(h) Which of the following states is not included in applet life circle?

(i) Born state ( )

(ii) Stopped state ( )

(iii) Destroyed state ( )

(iv) Pause state ( )

(i) Which of the following is not required to run thread?

(i) thread object ( )

(ii) implements ( )

(iii) run() method ( )

(iv) start() method ( )

(j) Which of the following algorithms enables us to arrange the elements of list in a certain order?

(i) Shuffle algorithm ( )

(ii) Sort algorithm ( )

(iii) Manipulating algorithm ( )

(iv) Search algorithm ( )



( 5 )

2. Indicate *True (T)* or *False (F)* by a Tick (✓) mark :

1×5=5

(a) Classes can be accessed in the package without public declaration.

( T / F )

(b) Single-line comment is created by -// characters at the end of line.

( T / F )

(c) Vector can hold object of any type.

( T / F )

(d) resume() method is invoked in the case of suspend.

( T / F )

(e) The code below will run applet .

- CODE = appletname.java.

( T / F )

( 6 )

SECTION—II

( Marks : 10 )

3. Answer the following questions : 2×5=10

(a) Define package.



( 7 )

(b) Write the advantages of Java over to other languages.

( 8 )

(c) Differentiate between input stream and reader stream.

(d) What is the job of paint() in applet?



( 9 )

- (e) How exception handling mechanism can be used for debugging a program?

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**V/BCA/501**

**2017**

**( 5th Semester )**

**BACHELOR OF COMPUTER APPLICATION**

Paper No. : BCA-501

**( Introduction to Java Programming )**

*Full Marks : 75*

*Time : 3 hours*

**( PART : B—DESCRIPTIVE )**

*( Marks : 50 )*

*The figures in the margin indicate full marks  
for the questions*

1. (a) List four basic parts of method declaration. 2
- (b) Write the differences between Java and C. 3
- (c) What is token? State and explain different types of token. 5

*Or*

- (d) When to use static member? Write declaration code. 2

**8G/270a**

*( Turn Over )*



( 2 )

- (e) What is visibility control? Explain briefly different types of visibility control. 4
- (f) Write a short note on a Java Virtual Machine. 4

2. (a) What is string? Explain two types of implementing classes of string. 1+2=3
- (b) Write a simple program that demonstrates multi-level package. 3
- (c) Explain with the syntax of the steps involved in creating an array. 4

Or

- (d) Discuss how multiple inheritance is supported by interface with an example. 5
- (e) What is interface? Write the general form of an interface definition. 1+1=2
- (f) What are the differences between 'class' and 'interface'? 3

3. (a) What is an exception? Explain briefly two types of exception. What are their differences? 2+2+1=5
- (b) What is error? State and discuss two types of error. 5

( 3 )

Or

- (c) Define synchronization. When we declare synchronization, how does it work? 3+3=6
- (d) What are the differences between multithreading and multitasking? 4
4. (a) What could be the problems when opening a file which is not created? 2
- (b) List six operations that can be performed by file class. 3
- (c) What are character stream classes? Discuss briefly two types of character stream class. 5

Or

- (d) What is the use of iterator? Discuss with an example. 4
- (e) What is the usage of collection interface? 3
- (f) Differentiate between List and Set. 3
5. (a) How do applets differ from application? 2
- (b) State the steps involved in developing and testing in applets. 3
- (c) Describe various stages in the life circle of applet. 5

8G/270a

( Turn Over )



( 4 )

Or

- (d) What are layout managers? What are the basic functionalities of layout managers? 5
- (e) Write the importances of Label, Button and text-box control. 3
- (f) Write a program that demonstrates the use of scroll bar. 2

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