

Second Year B.C.A. Sem - II Examination
Paper - 15BCA212
Java Programming

Time : Three hours]

[Full Marks - 60

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- N.B. :**
- i) All questions carry equal marks
 - ii) Due credit will be given to neatness & adequate dimensions.
 - iii) Assume suitable data wherever necessary.
 - iv) Illustrate your answer with the help of neat sketches.
 - v) Use Blue/Black ink/refill only for writing the answer book.

- Q.1 Choose the correct alternatives. 5
- a) The source code is compiled in Java using ____.
 - i) JDK
 - ii) JVM
 - iii) Javac
 - iv) Javadb
 - b) Objects in Java are created using the ____ operator.
 - i) Logical
 - ii) New
 - iii) Try
 - iv) Create
 - c) ____ are Java's way of grouping a variety of classes and/or interfaces together.
 - i) Overriding
 - ii) Package
 - iii) Inheritance
 - iv) None
 - d) Implementing or creating java threads by using method ____.
 - i) new()
 - ii) starting()
 - iii) run()
 - iv) sleep()
 - e) ____ is a GUI toolkit that facilitates the creation of highly interactive GUI application.
 - i) AWT
 - ii) Applet
 - iii) Packages
 - iv) None

- Q.2 a) Explain any six features of Java ? 6
b) Write a program to show age is valid for vote or not. 5

OR

- Q.3 a) Explain the switch statement with syntax and example. 5
b) Convert following expression in Java expression. 2
i) $\frac{m+n}{c} \times 100$
c) Explain: 4
i) JVM ii) For loop

- Q.4 a) What is Constructor ? Explain constructor overloading with example. 6
b) Write a program to demonstrate method overriding. 5

OR

- Q.5 a) Write a program to demonstrate concept of single inheritance. 5
b) Notes on: 6
i) Final method
ii) this keyword
iii) static method

- Q.6 a) Write procedure to create your own package. 5
b) Notes on: 6
i) public ii) private iii) protected

OR

- Q.7 a) Write a program to show the concept of Interface. 5
b) Explain API packages & importing packages in Java. 6

- Q.8 a) Explain the concept of exception handling in Java. 5
b) State and explain the life cycle of thread. 6

OR

- Q.9 a) Write a program in Java to show arithmetic exception. 5
b) Explain: 6
i) Finally ii) Throw
Q.10 a) Explain Applet life cycle in Java. 5
b) Create an applet to display message "Welcome to HVP" with red color. 6

OR

- Q.11 a) How mouse events are handled in Java ? Explain. 5
b) Explain: 6
i) AWT
ii) Graphics class
