

18. How is an interface implemented? Explain with a program.
19. (a) What are the common Java exceptions? List them. (4)  
(b) How is 'finally' used in exception handling? Explain with a program. (6)
20. Explain in detail about APPLET life cycle with an example program.
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S.No. 2031

12UCA09

(For the candidates admitted from 2012–2013 onwards)

B.C.A. DEGREE EXAMINATION,  
APRIL/MAY 2018.

Fifth Semester

PROGRAMMING IN JAVA

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.

1. Define Byte code.
2. How will you define a if statement in Java?
3. How is an object created? Write the syntax.
4. Define Package.
5. How is a class defined as final class?
6. Differentiate overloading and overriding.

7. Write the syntax of try...catch block.
8. List any two Arithmetic exceptions.
9. What is the use of paint method?
10. When is an Action Event Triggered?

PART B — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

11. (a) Write a Java program to add the elements of two-dimensional array.

Or

- (b) What is the use of setcharAt() and append () string functions?

12. (a) Define a class to initialize the length and breadth of rectangle using constructor and calculate the area of a rectangle.

Or

- (b) Explain how multi level inheritance is established using extends keyword in a class?

13. (a) How is an interface defined? Give an example.

Or

- (b) What is the difference between a Abstract and Final class? Explain with an example.

14. (a) Write a Java program to illustrate Array out of Bound Exception.

Or

- (b) How to throw an exception using throws statement? Explain with an example.

15. (a) What are the attributes of APPLET Tag? List and explain them.

Or

- (b) Write a Java program to read bytes from a file.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

All questions carry equal marks.

16. Write a Java program to read a string of characters from the keyboard until a newline character is encountered.

17. How is a package created and used in java? Explain with example.