



A Charutar Vidya Mandal's Institution  
**V.P. & R.P.T.P. SCIENCE COLLEGE**  
(AUTONOMOUS) (Grant-in-Aid)  
Affiliated to Sardar Patel University  
VALLABH VIDYANAGAR-388120



**Bachelor of Science (Semester 5) Internal Examination - 2025**  
**US05MACSC01: OBJECT ORIENTED PROGRAMMING USING JAVA**

**Date: 22/09/2025 Monday**

**Time: 10:45 AM to 12:15 PM**

**Total marks :30**

**Q. 1. Multiple choice question.**

**6**

1. Java is developed by \_\_\_\_\_  
a) Sun Microsystems of USA                      b) Microsoft  
c) Adobe                                              d) None
2. \_\_\_\_\_ is reserved keyword in java.  
a) Abstract                                              b) Extends  
c) Package                                              d) All of above
3. \_\_\_\_\_ is default access specifier in JAVA.  
a) friendly                                              b) protected  
c) private                                              d) public
4. Character streams can be used to read and write \_\_\_\_\_ Unicode characters.  
a) 4 - bit                                              b) 16 - bit  
c) 2 - bit                                              d) 8 - bit
5. \_\_\_\_\_ is caused by bad array indexes.  
a) ArrayStoreException                      b) ArithmeticException  
c) IOException                                      d) ArrayIndexOutOfBoundsException
6. \_\_\_\_\_ is a multi-line edit control.  
a) TextField                                              b) TextArea  
c) label                                              d) Button



**Q-2. List out the looping statements available in java. Explain with example.**

**6**

**OR**

**Q.2 Explain operators available in Java.**

**6**

**Q.3 Write short note on method overloading and method overriding.**

**6**

**OR**

**Q.3 Define inheritance. Describe different forms of inheritance.**

**6**

**Q.4 What is exception? Explain the syntax of try block and catch block with an example.**

**6**

**OR**

**Q.4 What is package? What are the benefits of package? Explain Java API packages.**

**6**

**Q.5. Explain Applet life cycle in detail.**

**6**

**OR**

**Q.5 Write a short note on following components.**

**6**

1. Lable    2. TextField



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BSC (Semester 5) Quiz - 2025

**US05MACSC01: OBJECT ORIENTED PROGRAMMING USING JAVA**

Date: 22/09/2025, Monday

Time: Maximum 20 minutes

Total marks :15

Q-1 Fill in the blanks with appropriate answer given in the bracket.

[08]

- (i) Java interpreter translates \_\_\_\_\_ into machine code. (Bitcode/ Bytecode)
- (ii) JVM stands for \_\_\_\_\_ (Java Virtual Machine / Java Virtual Method)
- (iii) \_\_\_\_\_ constructor is created when object of particular class is created. (Default/ Parameterized)
- (iv) \_\_\_\_\_ inheritance is not supported by JAVA. (Multipl/ Multi level)
- (v) All syntax errors are known as \_\_\_\_\_ (Compile-time / Logical)
- (vi) \_\_\_\_\_ package is used for creating and implementing applets. (java.applet / java.awt)
- (vii) \_\_\_\_\_ is a passive control. (TextField /Label)
- (viii) In \_\_\_\_\_ component we can select multiple items. ( List / Choice )

Q-2 Whether the following statement is true or false. Write your answer in the box

[07]

- (i) The process of converting one date type to another is called casting. [       ]
- (ii) == is assignment operator. [       ]
- (iii) Abstract methods must be override in the subclass. [       ]
- (iv) Final class defines only abstract methods and final fields. [       ]
- (v) We cannot create a subclass of final class. [       ]
- (vi) IOException is caused when a conversion between string and number fails. [       ]
- (vii) s1.index(n) method is used to find the nth no. of character of given string s1. [       ]

