

**Term-End Examination - June, 2018**  
**Diploma in Web Design**  
**DWD-02: PROGRAMMING IN JAVA**

Time - 3 hours

Full Mark – 100

*Answer all the questions from Group - 'A', any four questions from Group - 'B', any four questions from Group - 'C' and any two questions from Group - 'D'.*

**Group - 'A'**  
**(Answer all the questions)**

**Mark: 1 × 10= 10**

**Q. No. 1 (choose the correct answer)**

- (a) A compiler converts the Java program into an intermediate language representation called  
(i) bit Code            (ii) byte class            (iii) bytecode            (iv) byte
- (b) Java platform consists of JVM and a package of readymade software components this package is known as \_\_\_\_\_.  
(i) JVM API            (ii) JM API            (iii) lang            (iv) java API
- (c) Which of the following is not a Looping statement \_\_\_\_\_.  
(i) for    (ii) while    (iii) switch    (iv) do-while
- (d) The \_\_\_\_\_ statement is used inside the switch to terminate a Statement sequence.  
(i) jump    (ii) break    (iii) goto    (iv) then
- (e) Which property of Java allows the creation of hierarchical classifications?  
(i) interface    (ii) robust    (iii) inheritance    (iv) distributed
- (f) The class at the top of the exception classes hierarchy is called \_\_\_\_\_.  
(i) Common    (ii) Throwable    (iii) NULL    (iv) Catch
- (g) A \_\_\_\_\_ is java program that can be embedded in a Web page  
(i) Applets    (ii) browser    (iii) package    (iv) None of these
- (h) An applet tag is written in body tag of \_\_\_\_\_.  
(i) HTMM    (ii) HTTP    (iii) HTML    (iv) Applet
- (i) Which of the following is not a wrapper class?  
(i) Vector    (ii) Character    (iii) Boolean    (iv) Integer
- (j) p=10,q=5 what would be value of r after executing the following statement  
if(p>=9 && q<=8)  
    r=p+q;  
else  
    r=p-q;
- (i) 15            (ii) 5            (iii) 13            (iv) none of these

**Group 'B'**

**Mark: 5 × 4= 20**

**Q. No. 2(Answer any four questions each within 50 words)**

- a) Name the access specifiers not used with interface and why?
- b) What is the difference between throw and throws?
- c) How we can extract integer, Boolean, Float and double value from string? Write the syntax with example?
- d) Which exception is thrown in zero divide? Give an Example.
- e) What is This Keyword? Explain with example.
- f) Notes on Garbage Collection

**Group 'C'**

**Mark: 10 × 4= 40**

**Q. No. 3 (Answer any four questions each within 200 words)**

- a) Explain the concept of exception handling. What is the use of finally block.
- b) Differentiate between Application program and applet Program.
- c) Write a java program to sort 10 strings in alphabetical order?
- d) Write a simple applet program to display “Odisha State Open University” with background color as black and foreground color as green.
- e) What is the difference between abstract class and interface?
- f) Write a java program to compute GCD and LCM of a number using function.

**Group 'D'**

**Mark: 15 × 2= 30**

**Q. No-4 (Answer any two questions each within 250 words)**

- a) Define Applet. Discuss the Applet life Cycle with proper example.
- b) What is user defined package in java? Write the steps to create a user defined package. WAP to create a package named forest and placed a class Tiger with a method name getDetails(). Create another java program with name Animal and access the getDetails() method of forest package.
- c) What is super keyword and why it is used? Write a java program to find out the employee id, name and salary of an employee using super keyword at proper places?
- d) What are the features of java? Explain in details.