

(4)

Group—D

4. Answer any *two* questions each within 300 words : $15 \times 2 = 30$
- (a) Write a program in java for addition, subtraction, multiplication and division using package.
- (b) What is applet? Write down a java applet to display the message “Odisha State Open University” on a browser. What is the use of applet viewer?
- (c) What do you mean by object-oriented programming techniques? Explain how java language facilitates better-structured programming design by using class and object constructs over traditional languages like C and C++.

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Course Code CSP - 45 DWD - 02

Term End Examination - December, 2019

PROGRAMMING IN JAVA

PG Diploma in Computer Applications (PGDCA)
Advance Diploma in
Computer Applications (ADCA)
Diploma in Web Design (DWD)

Time : 3 hours

Full Marks : 100

The figures in the right-hand margin indicate marks

Answer **all** Groups as directed

Group—A

1. Answer *all* the questions, each within 1 word or 1 sentence: $1 \times 10 = 10$
- (a) What are the access modifiers used in java?
- (b) Which package includes all the standard classes in java?
- (c) Which method is used in thread class to starts the execution of the thread?

(2)

- (d) What are the two ways to create a thread?
- (e) Which type of code is used by JVM?
- (f) If a class has multiple methods by the same name but different parameters, it is known as?
- (g) What is the full form of JVM?
- (h) Write any two features of JAVA?
 - (i) $10 \gg 2 = ?$
 - (j) Which keyword is used to avoid overriding a method in java?

Group—B

- 2.** Answer any *four* questions each within 100 words : $5 \times 4 = 20$
- (a) Explain about features of java.
 - (b) What is the use of “This” keyword with example?
 - (c) What is the use of finally block?
 - (d) What is Thread? What is the advantage of multithreading?

(3)

- (e) What is method? Explain with example.
- (f) Write a java program to find the largest of three numbers.

Group—C

- 3.** Answer any *four* questions each within 200 words : $10 \times 4 = 40$
- (a) What are the stages in the life cycle of an applet?
 - (b) List and explain different relational operators used in java.
 - (c) Differentiate between the interface and an abstract class.
 - (d) Describe all types of inheritance in detail.
 - (e) What is user-defined package? How to access a user-defined package from a class? Explain with an example.
 - (f) Define and describe constructor overloading in java with suitable example.