

Instructions:

Read the question paper carefully. Write neatly and legibly. Do not over write. Pay special attention to spelling. Read the answers before submitting the answer sheet.

SECTION A(12 Marks)

Attempt all questions

Question 1

Choose the correct answers:

[4]

- (i) Which among the following is not a punctuator?
(a) ; semicolon
(b) , comma
(c) ; colon
(d) . dot
- (ii) The function that changes the state of its parameters is called
(a) pure function
(b) change function
(c) actual function
(d) none of the above
- (iii) The number of values that a function can return is:
(a) 1
(b) 2
(c) 3
(d) 4
- (iv) Which of the following is an entry controlled loop?
(a) do-while
(b) for
(c) if
(d) public
- (v) Which among the following is not a valid access specifier?
(a) public
(b) private
(c) partially
(d) protected
- (vi) Once a function is defined, it can be invoked repeatedly. What is this feature called?
(a) Interface
(b) Reusability
(c) Restructuring
(d) All of the above
- (vii) Which among the following is a valid float literal?
(a) 12
(b) 12.36
(c) 12.36f ✓
(d) Both a and c
- (viii) The parameters appearing in function definition are called
(a) actual parameters
(b) formal parameters
(c) call parameters
(d) all of the above

Question 2

- (i) Define an impure function. [2]
- (ii) Define abstraction
- (iii) Name any two basic principles of Object-oriented Programming.
- (iv) What is the role of keyword void in declaring functions?

Question 3

Identify the statements listed below as assignment, increment, method invocation or Object creation. [2]

- (i) `System.out.println("java");`
- (ii) `costPrice=457.50;`
- (iii) `Car hybrid = new Car();`
- (iv) `petrolPrice++;`

Question 4

Write Syntax for the following: [2]

- (i) Creating new object
- (ii) Class declaration and method declaration

Question 5

Consider the following class: [2]

```
public class IdentifyMyParts
{
    public static int x=7;
    public int y=3;
}
```

SECTION B (8 Marks)

Attempt any two questions from this Section

Question 6

Design a class to overload a function compare() as following:

- (a) `void compare(int,int)` – to compare two integer values and print the greater of the two integers.
- (b) `Void compare(char, char)` - to compare the numeric value of two characters and print the character with higher numeric value.
- (c) `Void compare(String, String)`- to compare the length of the two strings and print the Longer of the two.

Question 7

Write a program to find minimum of 2 nos. Using conditional operator.

Question 8

Write a program to perform arithmetic operation(+, -, *, /)