

Subject NAME:- Object oriented programming with JAVA.

Subject code:- BCS306A.

{ 3rd sem
VTU 2022 scheme

OOPS with JAVA.

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Important Questions.

classmate

Module - 1

- Q1. Explain four different types of if statements in JAVA with example.
- Q2. Demonstrate working of break with labels in JAVA.
- Q3. Explain different lexical in JAVA. Explain oop's.
- Q4. Write a program to sort the elements using for loop. Also discuss different versions of for-loop with examples.
- Q5. Write a program to illustrate break statement with labels.
- Q6. Explain the following operations with example.
(i) << (ii) >> (iii) >>> (iv) &
- Q7. Demonstrate the working of enhanced for loop with an example program.
- Q8. Explain different promotion rules in JAVA.

P.T.O.

MODULE - 2

(passing module)

- ① What are constructors? Explain two types of constructors with example.
- ② Explain memory allocation & use of garbage collector in JAVA.
- ③ Explain call by value & call by reference with example program.
- ④ Explain static variable & static methods in JAVA.
- ⑤ Write a JAVA program demonstrating method overloading.
- ⑥ Comparison b/w method overloading & method overriding.
- ⑦ Define recursion, write a recursive program to find n th fibonacci number.
- ⑧ Write a program to perform stack operation using proper class & methods.

Module - 3

- (kkk) What is meant by interface? State its need & write syntax & features of interface.
- (kk) Write a JAVA program to extend interface assuming suitable data.
- (kk) Explain inheritance & polymorphism features of JAVA. Write a single program to implement inheritance & polymorphism in JAVA.
- (kk) What is abstract class & abstract method? Explain with example.
- (kk) Which are the restrictions present for static declared methods?
- (kk) Explain how interface is used to achieve multiple inheritances in JAVA.
- (kk) What is single level inheritance? Explain with suitable example.
- (kk) Which are the restrictions present for static declared methods?

PASSING module.

Module - 4

- (kkk) What is package? How do we create it. Give the example to create & to access package.

- Q1. How to add new class to a package?
Explain with example.
- Q2. Write a note on access protection in Java.
- Q3. Comparison b/w abstract base class & an interface.
- Q4. What are the ways to access package from another package? Explain with example.
- Q5. Explain how to define & implement an interface with an example.
- Q6. Demonstrate working of nested try block with an example.
- Q7. What is exception, what are the key terms used in exception handling? Explain.
- Q8. How do you create your own exception class? Explain with a program.

Module - 5

- Q1. Define enumerations. Give an example.
- Q2. Explain how to achieve suspending, resuming & stopping threads with an example program.
- Q3. With syntax explain use of `isAlive()` & `join()` methods.

- Q1) Enumerations in Java are class types" - Justify this statement with appropriate examples.
- Q2) What are wrapper classes? Explain with examples.
- Q3) What is multithreading? Write a program to create multithreads in JAVA.
- Q4) What is the need of synchronization? Explain with an example how synchronization is implemented in JAVA.
- Q5) Discuss value() & valueOf() methods in Enumerations with suitable examples.
- Q6) What is meant by thread priority? How to assign & get the thread priority.