T(6th Sm.)-Computer Sc.-G/(DSE-B-2)/CBCS

2021

COMPUTER SCIENCE — GENERAL

Paper : DSE-B-2

(Object Oriented Programming)

Full Marks : 50

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Answer question no. 1 and any four from the rest.

1.	Answer	any	five	questions :	
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- (a) Define object in Java.
- (b) What is the purpose of wrapper class in Java?
- (c) What is a daemon thread in Java?
- (d) What are the different access specifier in Java?
- (e) What do you understand by the scope of a variable?
- (f) What is the role of JVM?
- (g) Illustrate typecasting in Java with an example.
- (h) What is the functionality of Appeal?
- 2. (a) What is constructor? Discuss about different types of constructors.
 - (b) Explain the use of 'this' keyword with an example.
 - (c) Why is Java preferred for software development?
- 3. (a) What are the different forms of Inheritance?
 (b) How does package differ from Interface? Explain it with suitable example. 5+5
 4. (a) Write a Java program to illustrate exception handling.
- (b) Explain thread prioritization in Java.
- 5. (a) Write a program in Java to print the area of a circle by creating a class named Area taking the values of its radius as parameter of its constructor and having a method named 'returnArea' which returns the area of the circle.
 - (b) With an example, show the use of logical and bitwise operator in Java. 5+5

Please Turn Over

 2×5

5+2+3

5+5

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6.	(a)	Write a program in Java to find vowels from a string.	
	(b)	Explain encapsulation with the help of a Java program.	5+5
7.	(a)	Write a Java program to check whether a number is prime.	
	(b)	How is JDBC used to connect database at the back-end?	5+5
8.	(a)	Discuss the basic principle of object oriented programming.	
	(b)	With an example show how multi-dimensioned array is used in Java.	6+4

(2)