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B. Tech 5th Semester Examination

Core Java (CBS)

CS-502

Time: 3 Hours

Max. Marks: 60

The candidates shall limit their answers precisely within the answerbook (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Attempt five questions in all selecting one question from each of the section A, B, C and D of the question paper and all the subparts of the section E (compulsory).

SECTION - A

- (a) What is an array? Write a program to print array elements in reverse order.
 - (b) Explain the concept of jump statements with program in Java.
 (6)
- 2. (a) Explain arithmetic, relational and logical operators. (6)
 - (b) Discuss features of Java. (3)
 - (c) Explain println(),print(),printf() methods with example. (3)

SECTION - B

- (a) Shape class contains length, height and area functions.
 Display contains show function. Rectangle class
 calculates area and prints area by using show function.
 Relate shape, display with rectangle class. Write a Java
 code to implement above. (6)
 - (b) What are access specifiers? Discuss them in the context of Java.(6)
- 4. Write short notes on the following:
 - (i) Differentiate overloading and overriding. (6)
 - (ii) Importance of finally block. (6)

SECTION - C

- (a) Write a program to display a text message "welcome" when user press button by mouse. (6)
 - (b) Explain GUI components with example. (6)
- 6. (a) Write a note on adapter class. (6)
 - (b) Write a Java program to demonstrate J Label, and J Button class.
 (6)

SECTION - D

- Write short notes on the following
 - (a) Graphics programming.
 - (b) Frame.
 - (c) API packages.

(12)

 (a) Develop a program that is likely to throw multiple exceptions that are handled using catch and finally blocks.

(6)

- (b) Write a note on:
 - (i) J Slider.
 - (ii) Access Protection.

(6)

SECTION - E (Compulsory)

- (i) What is meant by Listener in JAVA event handling? Give examples.
 - (ii) What is adaptor class? Where do we use it?
 - (iii) The Java.io. File class can be used to read contents of a file. State true or false and justify.
 - (iv) What is the role of bitwise operators?
 - (v) Write down the major pillars of OOP in brief.
 - (vi) What are naming conventions of packages? (2×6=12)