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Roll No. SE/95

**III SEMESTER**  
**B.Tech. (SE)**

**ENDTERM EXAMINATION**

**Nov/Dec-2022**

**SE 207 Engineering Analyses & Design**  
**(Software Engineering)**

**Time: 03:00Hours**

**Max.Marks: 40**

**Note:** All questions carry equal marks. Attempt any **FIVE** questions  
Assume suitable missing data, if any.

Q.1 Write short note on (any two):

- (a) Software quality standards
- (b) Boehm's maintenance model
- (c) RAD model
- (d) Measures, Metrics and Measurement

[8][CO3]

Q.2 Consider the program given below:

```
#include <stdio.h>
int main()
{
    int A, B, C;
    printf("Enter three numbers: ");
    scanf("%d %d %d", &A, &B, &C);
    if (A >= B)
    {
        if (A >= C)
            printf("%d is the largest number.", A);
        else
            printf("%d is the largest number.", C);
    }
    else {
```



```

    if (B >= C)
printf("%d is the largest number.", B);
    else
printf("%d is the largest number.", C);
}

```

```

return 0;
}

```

a) Design the set of test cases using BVA technique for the program.

[8][CO4]

b) Design a decision table for the program.

Q.3 If some existing modules are to be reused in building a new system. Which design strategy is used and why?

[8][CO4]

Q.4 Consider a software project with 300 KLOC. Find out effort estimation, development time, and person estimation for all different modes.

[8][CO2]

Project	a <sub>i</sub>	b <sub>i</sub>	c <sub>i</sub>	d <sub>i</sub>
Organic	2.4	1.05	2.5	0.38
Semidetached	3.0	1.12	2.5	0.35
Embedded	3.6	1.20	2.5	0.32

Q.5 Discuss the following

a) User versus system requirements

b) Generic and Customized Software Products.

[8][CO1]

Q.6 What is risk analysis in software testing? Discuss some unavoidable risk might take place in a software.

[8][CO1]