Notional Institute of Technology, Kurukshetra

BTech(3rd Sem), Mid Term-1

Subject & code: Software Engineering (ITPC- 207)   D.O.E: 19/09/2024

Time: 50 mts   Marks: 20

Attempt all the questions. All question carry equal marks.

Q1.	What is the classical definition of *Software Engineering*? Discuss various software engineering myths w.r.t. the phases involved in software engineering.	(5)
Q2.	Propose an ideal *Software Requirement Specification* (SRS). Discuss the same in details. In view of the software development process, why SRS is important?	(5)
Q3.	What does the *Control Flow Graph* (CFG) of a program represent? Draw the CFG of the following program:	

```
int stringmatch (char a[], char b[])
        { int I = 0, equal = 0;
        if (a == b)
        equal = 1;
        else while (a[i] == b[i])
                { if (a[i] == '\0')
                        { equal = 1;
                        b[i] = '\7;
                        }

                else i++;
                /*endif*/



        } /*endwhile*/



        /*endif*/



        return (equal);

}/*endstringmatch*/
```

If not done appropriately the CFG, what are the various challenges the system could face?

| Q4. | What is a data structured-oriented software design methodology? Discuss design element of one of them. How data structured-oriented software design is different from the data flow-oriented design methodology? | (5) |