Date: 13/14/2012

K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai-22 (Autonomous College Affiliated to University of Mumbai)

End Semester Exam

Nov - Dec 2022-23

(B. Tech/M. Tech.) Program: Information Technology

Examination: SY Semester: III

Course Code: ITC305 Course Name: Foundation of Software Engineering

Max. Marks: 45 **Duration: 02 Hours**

Instructions:

(1)All questions are compulsory.

(2)Draw neat diagrams wherever applicable.

(3) Assume suitable data, if necessary.

Q.	ume suitable data, if necessary. Question	Max. Marks	СО	BT level
No. Q 1	Solve any 5 questions out of six.	15		
i)	Explain generic process model.	03	CO1	U
		03	CO2	U
ii)	Explain any one analysis model.	03	CO3	U
iii)	Describe Function point (FP) estimation technique.	03	CO4	U
iv)	Explain UML symbolic notation of data flow diagram.	03	CO5	U
v)	Explain importance of component diagram.	03	C06	U
vi)	Describe Unit and integration testing.	15	-	
Q.2	Solve any three questions out of four.	13		
i)	Explain Spiral software processing model	05	CO1	U
ii)	Describe PERT/CPM with example.		CO3	U
iii)	Describe White box testing in details.		CO6	U
iv)	Explain RAD software processing model.		CO1	U
Q.3	Solve any three questions out of four.	15		
i)	Explain SRS document with example.	05	CO2	Analyse
ii)	Design and explain Sequence diagram for Hospital.	05	CO4	Create
iii)	management. Describe Component diagram with any example.	05	CO5	U
iv)	Design and explain state chart diagram with example.	05	CO5	Create