K. J. Somaiya College of Engineering, Mumbai-77 (Autonomous College Affiliated to University of Mumbai)

(Autonomous College Affiliated to University of Mumbai)
Semester: August – November 2020
In-Semester Examination

Class: TY B. Tech
Branch: Computer
Full name of the course: Software Engineering
Duration: 1hr.15 min (attempting questions) +15 min (uploading)

Max. Marks: 30

Q. No	Questions	Marks
Q1.1	What is NOT a part of software?	
	A. Problem definition.	
	B. B. User's manual	1 MARK
	C. Test Results.	
	D. Project Management Plan	
Q1.2	Which is NOT included in 4 Ps related to Software Engineering?	1 MARK
	A. People	
	B. Planning	
	C. Project	
	D. Product	
Q1.3	Which of the following is NOT a key process area at Process maturity	1 MARK
Q1.5	level 5 (Optimized)?	IWAKK
	A. Process change management	
	B. Technology change management	
	C. Software Quality Management	
	D. Defect prevention.	
Q1.4	Which is NOT an early Adjustment cost factor used in COCOMO II?	1 MARK
Q1.1	A. Risk resolution	
	B. Personal Attribute	
	C. Team support facilities	
	D. Previous experience	
	2. Tre note enperione	
Q1.5	Which of the following is a part of static analysis?	1 MARK
	A. Sequence Diagram	
	B. Class Diagram	
	C. Collaboration Diagram	
	D. State Chart diagram	
Q1.6	Number of external inputs (EIs) data for function point analysis comes	1 MARK
	from?	
	A. within application's boundary	
	B. outside the application's boundary	
	C. generated by the application	
	D. to be assumed by the application	

Q1.7	Cost Variance (CV) is what A. CV = BCWP - BC B. CV = BCWP - AC C. CV = SV / BCWS D. CV = CV+1		1 MARK
Q1.8	Functional requirements A. Independent of in B. Dependent on imp C. Focus on impleme D. Focus on weather	nplementation lementation entation details	1 MARK
Q1.9		ement nt	1 MARK
Q1.10	-	engineering activities are not a part of software ence ment on	1 MARK
Q.2	Consider following situated A person is interested in the ATM card, selects to mobile and after entering either of the entered data wrong maximum 3 attem Draw a sequence/ an assumptions clearly, if WILL BE AWARDED.	05 MARK	
Q3	Given the following value	ssumptions clearly if any) nes, compute function point when all complexity are average and weighting factors are: Average Simple Complex Complex Simple	05 MARK

Q4	With an example explain how modularity can be used to improve the design of a software system. OR	05 MARK
Q4	Define following coupling types: a) Content Coupling b) Stamp Coupling c) Routine Call Coupling d) Data Coupling	05 MARK
Q5	e) Inclusion Coupling. Explain the non-functional requirements stated below strictly w.r.t Online Electricity Bill Payment Portal. a) Usability b) Response Time c) Reliability d) Adaptability e) Security	05 MARK
Q5	OR Draw state chart diagram for bank account object	05 MARK