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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B. Tech CSBS

(SEM: 3 SESSIONAL EXAMINATION –I) (2021-2022)

Subject Name: Software Engineering

Time: 1.15Hours　　　　　　　　(Set-A)　　　　　　　Max. Marks:30

General Instructions:

➤ All questions are compulsory. Answers should be brief and to the point.
➤ This Question paper consists of 2 pages & 5 questions.
➤ It comprises of three Sections, A, B, and C. You are to attempt all the sections.
➤ **Section A** -Question No- 1 is objective type questions carrying 1 mark each, Question No- 2 is very short answer type carrying 2 mark each. You are expected to answer them as directed.
➤ **Section B** - Question No-3 is short answer type questions carrying 5 marks each. You need to attempt any two out of three questions given.
➤ **Section C** -Question No. 4 &5are Long answer type (within unit choice) questions carrying 6 marks each. You need to attempt anyone-part a *or b.*
➤ Students are instructed to cross the blank sheets before handing over the answer sheet to the invigilator.
➤ No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

	SECTION – A	**[8]**	
1.	**Attempt all parts**	**(4×1=4)**	**CO**
a.	Efficiency in a software product include _____ 　i.　Responsiveness 　ii.　Licensing 　iii.　Memory utilization 　iv.　Both i and iii	(1)	CO1
b.	What is a Software? 　i.　Software is set of programs 　ii.　Software is documentation and configuration of data 　iii.　Software is set of programs, documentation & configuration of data 　iv.　None of the mentioned	(1)	CO1
c.	Software doesn't "wear out". 　i.　True 　ii.　False	(1)	CO1
d.	Functionality is a set of attributes that bear on capability of software to maintain its level of performance under the given condition for a stated period. 　i.　True 　ii.　False	(1)	CO1

2.	Attempt all parts		(2×2=4)	CO
	a.	_____ is set of attributes that bear on the ability of software to be transferred from one environment to another, without or minimum changes.	(2)	CO1
	b.	In which year ISO/IEC 25010 replaced ISO/IEC 9126.	(2)	CO1

	SECTION – B		10	
3.	Answer any <u>two</u> of the following-		[2×5=10]	CO
	a.	Explain emergence of software engineering as a discipline.	(5)	CO1
	b.	Differentiate between bug and error.	(5)	CO1
	c.	Draw software quality plan structure.	(5)	CO1

	SECTION – C		12	
4	Answer any <u>one</u> of the following- (Anyone can be applicative if applicable)		[2×6=12]	CO
	a.	Compare Traditional engineering approach and software engineering approach.	(6)	CO1
	b.	Write Short Note on: i. Transient failure ii. Non-corruption failure iii. Recoverable failure	(6)	CO1
5.	Answer any <u>one</u> of the following-			
	a.	What do you understand by timely availability of a software? Portray a real time example to support your answer.	(6)	CO1
	b.	Differentiate Between programming in large vs programming in small in reference to research paper published by Frank DeRemer and Hans Kron.	(6)	CO1