G.R. No. | | PAPER CODE | U222-214(ESE)

May 2022 (ENDSEM) EXAM
S.Y. B. TECH. (SEMESTER - II) AI & DS
COURSE NAME: Software Engineering
COURSE CODE: ADUA22204
(PATTERN 2020)

Time: [1Hr]   [Max. Marks: 30]

(*) Instructions to candidates:
1) Figures to the right indicate full marks.
2) 'a' part of every question is compulsory
3) Use of scientific calculator is allowed
4) Use suitable data where ever required

Q.1   a) "I have studied unit 1 but not unit 3 for exam". If such a statement is said – I am identifying risk/ mitigating/ monitoring/ avoiding/ managing risk? Justify.   [4]

b) Express your views with reason to understand and apply software configuration management.   [6]

OR

b) Develop a risk table, for six risks along with the category and details of RMMM for a project development   [6]

Q2   a) Distinguish between white box and black box testing.   [4]

b) Develop six test cases for a web page that accepts Credit card number and amount to process information. State assumptions before writing test cases.   [6]

OR

b) Discuss the methods that are used in accessing the software quality. Express your opinion on the need of same.   [6]

Q.3

a) Express your views on collaborative development and describe the best practices to ensure its smooth functioning. [4]

b) Consider a project size comprising of a small team size. The KLOC is 30. Measure the effort, development cost and Persons required with COCOMO. Refer the table below. [6]

	A	b	c	d
Organic	2.4	1.05	2.5	0.38
Semi-detached	3.0	1.12	2.5	0.35
embedded	3.6	1.20	2.5	0.32

OR

b) Determine the major challenges in emerging trends in software engineering. [6]