

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2023)

CLASS: BCA
BRANCH: BCA

SEMESTER : V
SESSION : MO/2023

SUBJECT: CA320 SOFTWARE TESTING

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a) What is software testing? Explain.	[2]	1	2
Q.1(b) What are the limitations of testing?	[3]	1	1
Q.2(a) Differentiate between Fault, bug and failure.	[2]	1	4
Q.2(b) Verification and validation are used interchangeably many times. Define these terms and establish their relationship with testing.	[3]	3	1
Q.3(a) What is functional testing? Explain.	[2]	2	2
Q.3(b) What is cause-effect graphing technique? What are basic notations used in a cause-effect graph?	[3]	3	1
Q.4(a) What is structural testing? Explain.	[2]	3	2
Q.4(b) What is mutation testing? What is the purpose of mutation score? Explain.	[3]	3	2
Q.5(a) What are the various levels of testing? Explain the objectives of every level.	[2]	2	2
Q.5(b) Differentiate between unit testing and integration testing.	[3]	3	4

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