

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

CLASS: BTECH
BRANCH: CSE/IT

SEMESTER : VII
SESSION : MO/2023

SUBJECT: IT436 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? Discuss the role of software testing during software life cycle and why is it so difficult?	[2]	1	R
Q.1(b)	Define the following terms: (a) fault (b) failure (c) bug (d) mistake	[3]	1	R
Q.2(a)	Define Test plan ,Test suite and Test case	[2]	2	R
Q.2(b)	Explain the boundary value analysis and Equivalence class testing technique with the help of an example.	[3]	2	R
Q.3(a)	How to calculate cyclomatic complexity explain with graph example	[2]	2	A
Q.3(b)	Read P Read Q If P+Q>100 THEN Print "large" ENDIF IF P>50 THEN Print" P Large" END IF Calculate Statement coverage(SC),Branch Coverage(BC) and Path coverage(PC)	[3]	2	A
Q.4(a)	Define Bottom Up Integration testing with flow diagram.	[2]	3	U
Q.4(b)	What is Data Driven Testing explain with flow diagram.	[3]	3	U
Q.5(a)	Define Regression testing and stress testing.	[2]	3	U
Q.5(b)	Define level of testing.	[3]	3	U

:::20/09/2023 M:::