

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(END SEMESTER EXAMINATION)**

**CLASS: BTECH  
BRANCH: CIVIL/MECH/EEE/ECE**

**SEMESTER : VITH  
SESSION : SP/2023**

**TIME: 3 Hours**

**SUBJECT: IT305 SOFTWARE ENGINEERING (OE)**

**FULL MARKS: 50**

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a)	What are the major differences between system engineering and software engineering? State.	[5] 1	A
Q.1(b)	Explain the Incremental Model. What are the Advantages and Disadvantages?	[5] 1	R
Q.2(a)	With relevant example discuss functional and non-functional requirement.	[5] 2	R
Q.2(b)	Explain cohesion and coupling with its type.	[5] 2	R
Q.3(a)	Write attributes of good software design.	[5] 3	AN
Q.3(b)	Explain CMM model.	[5] 3	AN
Q.4(a)	what are the various testing strategies to software testing? Discuss them briefly.	[5] 4	AP
Q.4(b)	Explain Software reliability and its types.	[5] 4	AN
Q.5(a)	What is the need for software maintenance and maintenance report.	[5] 5	AN
Q.5(b)	Explain software maintenance and its types.	[5] 5	AN

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