Roll No:	Name:	Signature:

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI CS522L INDUSTRIAL SOFTWARE ENGINEERING TEST-I

M.TECH SEMESTER II TIME:70 Min MARKS: 40 marks

Instructions:

- Be agile, <u>crisp</u> and sharp in your answers, use bullets, diagrams and write assumptions if any! Carefully read the questions, plan and answer appropriately!
- I repeat: Be pointed and precise in your answers (writing stories and long paragraphs is strictly banned!)
- All the best @ @

Section A. Short Answer Questions (3 marks X 12 = 36 marks) + 4 marks

- Write two primary differences between Verification and Validation, and an example for each of them!
- 2. Briefly explain the Kano model of quality through examples for a software chat application
- 3. Draw a table to list Garvin's five perspectives of software quality, and explain each through the example of banking software!
- 4. What are the various kinds of classification/categories of software qualities? Write an example for each for bookmyshow platform!
- 5. Write the key differences between software engineer and programmer through a table remember the example of an engineer and mason?
- 6. What are the three broad ways of assessing software quality? Write an advantage and disadvantage of each approach!
- 7. Briefly define three software qualities, and how do you measure (which metric) each one of them?
- Write three significant past contributions in software engineering (based on NATO 1968, 1969 discussion) which are challenges even today!
- 9. Write three future trends of software engineering as discussed during lectures!
- 10. What is Software Engineering anyway? Write different and varying definitions of software engineering as discussed during lectures!
- 11. What are the key technical decisions you made for your Android project which you think are absolutely wrong and must be avoided?
- 12. Write three coding related activities (with justification) where Al Code Assistants (such as ChatGPT) fail miserably!
- 13. What skills of a software engineer's job are (i) already automated (ii) will be automated by Al tools? Why do you think so? (4 marks)

