Department of Computer Science and Engineering, NITK Surathkal
Mid-Semester Examination   CS 305 Software Engineering
27/09/2023 10.30 am – 12 noon

Note: Answer the following Questions (Total marks = 40)

Part-A   (10 questions x 2 marks each = 20 marks)

1. What are the differences between 'software process' and 'software process models'?
2. Software system's development and usability are increased by means of an appropriate model driven approach – is it possible? If yes, how? If no, why not?
3. Distinguish between 'spiral sw process model' and 'V-shape process model' in the context of developing software for an e-commerce application.
4. Why is 'agile' sw development better than traditional methods?
5. Problems of volatility – what is it? Where does it occur in sw development?
6. What do you get out of 'use cases'? (OR, in other words), what questions are answered in developing 'use-cases'?
7. Give an example of 'requirements prioritization' in the context of a university information / automation system.
8. When and how do we get 'agreed requirements'?
9. How can 'verification' and/or 'validation' be applied in recognizing a 'user manual' (in the context of requirements engineering).
10. What is CASE in the context of sw development? Illustrate an example of a CASE that is known to you in this age / world of 'artificial intelligence'

Part-B (2 questions x 10 marks each = 20 marks)

11. Assuming that you are working for a company which produces software similar to 'ChatGPT'. Analyse and propose a software process model (among the process models that you studied in this subject or anywhere else) for this sw development company.
12. With the help of a V-like model / diagram, can you explain the requirements engineering tasks to the above said company (ref- Qn.11, above).

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