Q.P. Code :22530

[Time: Three Hours]   [Marks:80]

Please check whether you have got the right question paper.

N.B: 1.   Question No. 1 is compulsory.
        2.   Attempt any three questions out of remaining five.

Q.1   Answer all questions   20
       a)   What are the potential problems of prototyping model?
       b)   What are the different steps recommended to determine the overall consequences of risks?
       c)   Explain cohesion and coupling. What are the benefits of high cohesion and low coupling?
       d)   With examples, differentiate between validation and verification.

Q.2   a)   Tell the methods to gather the requirements for an online ticket selling system for an event. Mention any four different requirements elicitation methods.   10
       b)   With a neat diagram explain the spiral model of software development   10

Q.3   a)   Describe and discuss the characteristics of the agile requirements process.   10
       b)   Prepare a risk identification checklist and RMMM plan for creating an UID with biometrics (Unique identification number) for a highly populated country.   10

Q.4   a)   Explain the different metrics used for software quality and reliability.   10
       b)   Explain basis path testing and cyclomatic complexity with suitable examples.   10

Q.5   a)   What is Software Configuration Management? Explain the various steps involved in change control.   10
       b)   Explain the different OO testing methods.   10

Q.6   Write short notes on (any two)   20
       a)   SCRUM
       b)   Service Oriented Software Engineering
       c)   Schedule and Cost Slippage
       d)   Security Engineering

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