

SOFTWARE ENGINEERING DEC 2017

Total Marks: 80 Total time: 3 hours

INSTRUCTIONS

- (1) Question 1 is compulsory.
- (2) Attempt any three from the remaining questions.
- (3) Draw neat diagrams wherever necessary.

Q.1 Attempt all four.

 (a) What are the potential problems of prototyping model? (b) What are the different steps recommended to determine 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. 	(5) (5) (5) (5)
 Q.2.(a) Tell the methods to gather the requirements for an online ticket selling system for an ever Mention any four different requirements elicitation methods. (b) With a neat diagram explain the spiral model of software development. 	nt. (10) (10)
 Q.3.(a) Describe and discuss the characteristics of the agile requirements process. (b) Prepare a risk identification checklist and RMMM plan for creating an UID with biometrics (Unique identification number) for a highly populated country. 	(10) (10)
Q.4.(a) Explain the different metrics used for software quality and reliability.(b) Explain basis path testing and cyclomatic complexity with suitable examples.	(10) (10)
 Q.5.(a) What is Software Configuration Management? Explain the various steps involved in change control. (b) Explain the different 00 testing methods. 	(10) (10)
 Q.6 Write short notes on any (02) (a) SCRUM (b) Service Oriented Software Engineering (c) Schedule and Cost Slippage 	(20)

(d) Security Engineering