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Question Paper Code: 54804

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fourth Semester

Information Technology

15UIT404 – SOFTWARE ENGINEERING METHODOLOGIES

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Which one of the following models is not suitable for accommodating any change? CO1- R
(a) Build & Fix Model (b) Prototyping Model
(c) RAD Model (d) Waterfall Model
2. An evolutionary software process model that couples the iterative nature of prototyping with controlled and systematic aspects of waterfall model is called CO1 -R
(a) Incremental modeling (b) Iterative modeling
(c) Spiral modeling (d) Concurrent modeling
3. Which one of the following is NOT desired in a good Software Requirement Specifications (SRS) document? CO2- R
(a) Functional Requirements (b) Non-Functional Requirements
(c) Goals of Implementation (d) Algorithms for Implementation
4. A condition or capability needed by a user to solve a problem or achieve an objective is called
(a) Performance (b) Completeness (c) Reliability (d) Requirement

5. Which of the following option is not considered by the Interface design? CO3- R
- (a) the design of interfaces between software components
- (b) the design of interfaces between the software and human producers and consumers of information
- (c) the design of the interface between two computers
- (d) all of the mentioned
6. The Collaboration diagrams , Component diagrams and Deployment diagrams are developed during CO3- R
- (a) Design phase (b) Analysis phase
- (c) Requirement Analysis phase (d) None of the above
7. Which of the following is black box testing? CO4- R
- (a) Basic path testing (b) Boundary value analysis
- (c) Code path analysis (d) None of the mentioned
8. The internal view of testing is termed CO4 -R
- (a) White-box testing (b) Basis path testing (c) Black-box testing (d) Unit testing
9. Which one is not a stage of COCOMO-II? CO5- R
- (a) Early design estimation model
- (b) Application Composition estimation model
- (c) Comprehensive cost estimation model
- (d) Post architecture estimation model
10. The relationship between effort applied and delivery time for a software is CO5 -R
indicated by
- (a) Baseline S-curve (b) Time line chart
- (c) Gantt chart (d) Putnam-Norden-Rayleigh curve

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Explain the iterative waterfall and spiral model for software life cycle CO1- U (8)
and various activities in each phase.

12. Consider you are developing feedback web page for the college where visitors to the college will record their opinion on the college. List the functional and non functional requirements for the web page with illustrations and justifications. CO2- App (8)
13. What is transform mapping? Explain the process with an illustration. What is its strength and weakness? CO3- U (8)
14. Discuss the differences between black box and white box testing models. Discuss how these testing models may be used together to test a program schedule. CO4- U (8)
15. Briefly explain the different type of cost estimation model and compare CO5- U (8)