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Reg. No. :

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Question Paper Code: 54804

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Fourth Semester

Information Technology

15UIT404 – SOFTWARE ENGINEERING METHODOLOGIES

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Software means collection of CO1- R
 - (a) Computer Program
 - (b) Computer Coding
 - (c) Debugging
 - (d) Set of Coding
2. Prototyping aims at : CO2- R
 - (a) end user understanding and approval
 - (b) program logic
 - (c) planning of dataflow organisation
 - (d) none of these
3. Which of the following is not included in Architectural design decision? CO3- R
 - (a) type of application
 - (c) architectural styles
 - (b) distribution of the system
 - (d) testing the system
4. _____ is normally considered as an adjunct to the coding step. CO4- R
 - (a) Integration testing
 - (c) Completion of Testing
 - (b) Unit testing
 - (d) Regression Testing
5. _____ is defined as the degree to which a system component, or process possesses a given attribute. CO5- R
 - (a) Measure
 - (b) Direct Metrics
 - (c) Metrics
 - (d) Artifact

PART – B (5 x 3= 15Marks)

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| 6. | Define Software engineering. | CO1- R |
| 7. | What is Feasibility study? | CO2- R |
| 8. | What is Transform mapping? | CO3- R |
| 9. | What is mean by white box testing? | CO4- R |
| 10. | Apply project plan for healthkart. | CO5- R |

PART – C (5 x 16= 80Marks)

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| 11. | (a) Explain aspect oriented software development model and concurrent model. | CO1- U | (16) |
| | Or | | |
| | (b) Explicate Specialized Process Models-Agile models. | CO1- U | (16) |
| 12. | (a) Compare functional and non-functional requirements of Software system requirements.. | CO2- App | (16) |
| | Or | | |
| | (b) Describe in detail the various phases of Requirement Elicitation. | CO2- U | (16) |
| 13. | (a) What is Design process? Explain the different types of software design. | CO3- U | (16) |
| | Or | | |
| | (b) Explain data architectural and procedural design for a software | CO3- U | (16) |
| 14. | (a) Explain the fundamentals of Software testing. | CO4- U | (16) |
| | Or | | |
| | (b) Explain in detail about Black box testing and white box testing. | CO4- Ana | (16) |
| 15. | (a) Explain about software cost estimation. | CO5- U | (16) |
| | Or | | |
| | (b) Give a detail note about RFP Risk Management. | CO5- U | (16) |