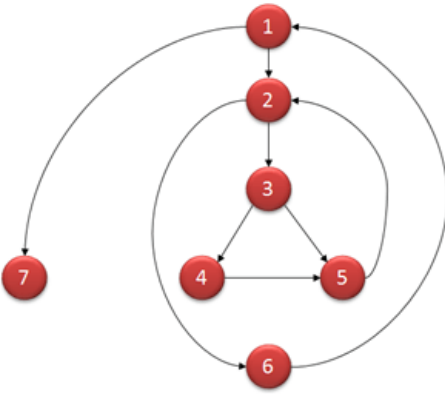


| Scheme of Valuation/Answer Key | | | |
|--|----|--|-------------------|
| (Scheme of evaluation (marks in brackets) and answers of problems/key) | | | |
| APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY | | | |
| SIXTH SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2018 | | | |
| Course Code: CS308 | | | |
| Course Name: SOFTWARE ENGINEERING AND PROJECT MANAGEMENT | | | |
| Max. Marks: 100 | | | Duration: 3 Hours |
| PART A | | | |
| <i>Answer all questions, each carries 3 marks.</i> | | | Marks |
| 1 | | Explain four P's: People, Product, Process, Project | (3) |
| 2 | | At least three advantages | (3) |
| 3 | | Explanation of QFD(2 marks), value factor is used to rank requirements(1 mark) | (3) |
| 4 | | At least six characteristics | (3) |
| PART B | | | |
| <i>Answer any two full questions, each carries 9 marks.</i> | | | |
| 5 | a) | Examples(3 mark), number of loops if not fixed for justification (1 mark) | (4) |
| | b) | Spiral mode(1 mark), explanation(4 mark) | (5) |
| 6 | a) | Explain five different phases(4 mark) Testing phase takes more effort to develop a product(1 mark) | (5) |
| | b) | Four phases: Requirement elicitation, Requirement analysis, Requirement documentation, Requirement review(each carry 1 mark) | (4) |
| 7 | a) | Explain five levels of CMM(2 mark), CMM is better justification(1 mark) | (3) |
| | b) | Problem statement(1 mark), context diagram(1 mark), use case(2 mark), ER diagram(2 mark) | (6) |
| PART C | | | |
| <i>Answer all questions, each carries 3 marks.</i> | | | |
| 8 | | Formula(1 mark), effort=91 PM, DT= 14 M | (3) |
| 9 | | At least 5 to 6 guidelines | (3) |
| 10 | | Difference, each carry 1 mark | (3) |
| 11 | | Explanation(1 mark) properties (2 mark) | (3) |

| PART D | | | |
|---|----|--|-----|
| <i>Answer any two full questions, each carries 9 marks.</i> | | | |
| 12 | a) | Define modularity(1 mark), Any two properties (2 marks each) | (3) |
| | b) | Define system testing(1 mark),types(2 mark) | (3) |
| | c) | Code inspection(1.5 mark).code walkthrough(1.5 mark) | (3) |
| 13 | a) | Cyclomatic complexity =4 (1.5 mark) | (3) |
| | |  (1.5 mark) | |
| | b) | Decision table (3 mark) test cases(3 mark) | (6) |
| 14 | a) | Formula 1 mark,E=52.91 PM(2 mark),D=11.29 M.Marks may be awarded if the candidate mention at least the basics. | (5) |
| | b) | Formula(1 mark),UFP=628(1 mark) ,CAF=1.07(1 mark) FP=672(1 mark) | (4) |
| PART E | | | |
| <i>Answer any four full questions, each carries 10 marks.</i> | | | |
| 15 | a) | Define maintenance(2mark),categories(3mark), maximum perfective maintenance(1 mark) | (6) |
| | b) | Process(3 mark),figure(1 mark) | (4) |
| 16 | a) | Definition(1 mark),activities(4 mark) | (5) |
| | b) | Definition(1 mark),architecture figure(1 mark),explanation(3 mark) | (5) |
| 17 | a) | At least 6 characteristics | (6) |
| | b) | Types | (4) |
| 18 | a) | Definition(1 mark),types(3 mark) | (4) |
| | b) | Risk management activity | (6) |

| | | | |
|------|----|--|------|
| 19 | a) | Explanation(Basic concepts only) | (6) |
| | b) | Formula(1 mark),ans:1500 PM(3 mark) Marks may be awarded if the candidate mention at least the basics. | (4) |
| 20 | a) | Each carry 2 marks | (10) |
| **** | | | |

