

Code No: P18CST07

R18

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)

II B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH/APRIL - 2023
SOFTWARE ENGINEERING
(Common to CSE(IOTCSBT),AIDS,AIML Branches)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-A

Answer all the questions in Part-A (5X2=10M)

| Q.No. | Questions | Marks | CO | KL |
|-------|-------------------------------------|-------|----|----|
| 1 | a) What is a software process? | [2M] | 1 | 1 |
| | b) Define Cohesion and Coupling | [2M] | 2 | 2 |
| | c) Write the example of level 1 DFD | [2M] | 3 | 1 |
| | d) What is cyclomatic complexity | [2M] | 4 | 1 |
| | e) What is ISO 9000 certification | [2M] | 5 | 1 |

PART-B

Answer One Question from each UNIT (5X10=50M)

| Q.No. | Questions | Marks | CO | KL |
|----------|---|-------|----|----|
| UNIT-I | | | | |
| 2. | Explain the Waterfall and Spiral software development models. Also explain the relative merits and demerits of each | [10M] | 1 | 2 |
| OR | | | | |
| 3. | Explain the various characteristics of software and software myths | [10M] | 1 | 2 |
| UNIT-II | | | | |
| 4. | Explain SRS with example | [10M] | 2 | 2 |
| OR | | | | |
| 5. | Explain the layered arrangement of modules in software design | [10M] | 2 | 2 |
| UNIT-III | | | | |
| 6. | a) Explain the SA/SD methodology | [5M] | 3 | 2 |
| | b) Explain about object oriented analysis | [5M] | 3 | 2 |
| OR | | | | |
| 7. | a) What are fundamentals of component-based GUI? Explain | [5M] | 3 | 1 |
| | b) Discuss about menu-based interface | [5M] | 3 | 6 |
| UNIT-IV | | | | |
| 8. | a) What are program analysis tools? Explain | [5M] | 4 | 1 |
| | b) Explain the white-box testing process with example | [5M] | 4 | 2 |
| OR | | | | |
| 9. | a) Explain the boundary-value analysis in detail. | [5M] | 4 | 2 |
| | b) Explain in detail about code review | [5M] | 4 | 2 |
| UNIT-V | | | | |
| 10. | a) Discuss about CASE environment | [5M] | 5 | 6 |
| | b) Explain about software quality management system | [5M] | 5 | 2 |
| OR | | | | |
| 11. | What is maintenance cost? Explain the software configuration management in detail | [10M] | 5 | 1 |
