

SOFTWARE ENGG

Q.P. Code : 513900

(3 Hours)

Total Marks : 80

Note : (1) Question No. 1 is Compulsory.
 (2) Attempt any **FOUR** question from 2 to 7

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| 1. | (A) Explain any five fact finding techniques in detail? | 10 |
| | (B) Explain RAD model and its advantages | 10 |
| 2. | (A) Explain Formal Technical Review in detail. | 8 |
| | (B) Explain Mc Call's software quality model in detail. | 7 |
| 3. | (A) Explain SDLC model in detail. | 8 |
| | (B) Explain various team structures in software engineering. | 7 |
| 4. | (A) Discuss Software Requirement Specification (SRS). | 8 |
| | (B) Explain different types of Software Maintenance in detail. | 7 |
| 5. | (A) An application has the following:
10 low external inputs,
12 high external outputs
20 low internal logical files,
15 high external interface files,
12 average external inquiries.
And a value of complexity adjustment factor of 1.10
What are the unadjusted and adjusted function point counts? | 8 |
| | (B) Explain in detail Structured walkthroughs. | 7 |
| 6. | (A) A project is estimated to be 400 KLOC. Calculate the effort and development time for each of the three modes. Given: organic (a1=2.4, a2=1.05, b1=2.5, b2=0.38), semidetached (a1=3.0, a2=1.12, b1=2.5, b2=0.35), Embedded (a1=3.6, a2=1.20, b1=2.5, b2=0.32) | 8 |
| | (B) Explain Software Reliability metrics in detail | 7 |
| 7. | Write short notes on : (any three, 5 marks each) | 15 |
| | a. Waterfall model | |
| | b. HIPO chart | |
| | c. Data Flow Diagram | |
| | d. CASE tools | |