

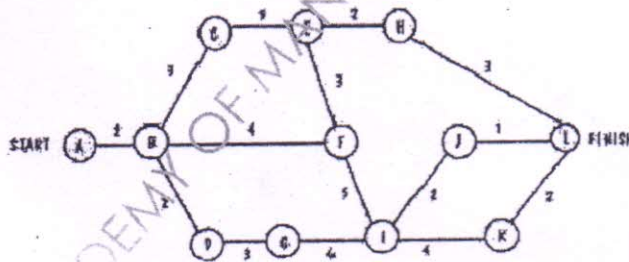
Max. Marks: 80Marks

Time: 3 hrs

NOTE: I) Question no.1 is compulsory

II) Attempt any 4 out of the remaining questions

- Que.1a) You are appointed as the software designer. For the of Billing Process in Telephone Department, Estimate the cost using COCOMO model to develop the system 10
- Que.1b) Explain Agile model and extreme programming. 10
- Que.2a) Define degree of rigor. Explain how degree of rigor is calculated based on TSS. 8
- Que.2 b) Explain the umbrella activities of a software process. 7
- Que.3a) Assume that the size of an organic type software product has been estimated to be 32,000 LOC and assume that the average salary of software engineer is Rs.15,000 per month. Determine the effort required to develop the software product and the nominal development time 8
- Que.3 b) Explain Mc Call's Software quality model in detail. 7
- Que.4a) Describe the various phases of RAD model and list out its strengths and weaknesses. 8
- Que.4b) What is work breakdown structure? explain with example 7
- Que.5a) Find the critical path for the activity graph given below: 8



- Que.5b) Describe following types of maintenance. Give example of each, 7
- Corrective Maintenance
 - Adaptive Maintenance
 - Preventive Maintenance

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- Que.6a) Explain a) Graph Based testing methods b)Equivalence Partitioning 8
c) Alpha and Beta Testing d) Performance Testing
- Que.6b) Explain how formal technical review (FTR) is conducted. Explain how FTR helps 7
in software quality assurance.
Write a short note. (any 3) 15
- Que 7
- i. HIPO chart
 - ii. Reverse Engineering
 - iii. Process maturity levels in SEIs CMM.
 - iv. CASE tools.

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