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(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 113604 Roll No. [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

B.Tech.

(SEM. VI) THEORY EXAMINATION 2013-14

SOFTWARE PROJECT MANAGEMENT

Time : 3 Hours   *Total Marks : 100*

Note :– Attempt **all** questions.

1. Attempt any **four** of the following :   (4×5=20)

    (a) What is scope of project ? Explain with an example.

    (b) List the various types of project plans. Explain one such plan.

    (c) What is Project Management Life Cycle ? Explain.

    (d) Describe the Putnam Model of software estimation.

    (e) Explain the following with an example :

        (i) Deliverable

        (ii) Milestone.

2. Attempt any **two** of the following :   (2×10=20)

    (a) Define Work Breakdown Structure (WBS). Explain the various types of WBS.

    (b) Explain the following :

        (i) Total float, Free float and Independent float

        (ii) PERT vs CPM

        (iii) Scheduling resources.

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(c) Following is the activity list of a software project :

Activity	Activity Description	Duration (Weeks)	Precedents
A	Hardware selection	6	
B	Software design	4	
C	Install hardware	3	A
D	Code and Test Software	4	B
E	File take-on	3	B
F	Write user manual	10	
G	User training	3	E, F
H	Install and test system	2	C,D

(i)   Construct the Project Network

(ii) Find the Critical path

(iii) Compute slack of each activity

(iv) Indicate the earliest start time, latest start time, earliest finish time and latest finish time in the diagram.

3. Attempt any **two** of the following :   **(2×10=20)**

(a) Explain the Function Point Analysis in detail. Discuss also how Complexity Adjustment Factor (CAF) adjusts the Unadjusted value of Function Point (UFP).

(b) Discuss the COCOMO hierarchy of estimation models in detail.

(c) Describe the Earned Value Indicators in detail.

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4. Attempt any **two** of the following : (2×10=20)

  (a) Describe the different types, levels and strategies of testing.

  (b) Explain the terms :

    (i) Verification and Validation

    (ii) Testing tools.

  (c) Explain about SEICMM. Describe in detail various maturity levels. Explain the capability required to satisfy them.

5. Attempt any **two** of the following : (2×10=20)

  (a) How is change control process handled in software projects.

  (b) What is risk management ? What are the various type of risks ? How are these managed ?

  (c) What are CASE tools ? Describe the CASE tools giving their utility.

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