

Seat No. : _____

XD-118
THIRD YEAR B.C.A.
March-2013
Software Project Management
Paper – 306

Time : 3 Hours]

[Max. Marks : 70

1. Do as directed : (any **fourteen**) **14**
- (i) True or false : Good team work always improves the Product Quality.
 - (ii) List out different types of Cost.
 - (iii) True or false : COCOMO-II is used for Software Cost Estimation.
 - (iv) What is the use of Historical Data ?
 - (v) True or false : Software is manufactured not developed.
 - (vi) True or false : ISO 15504 is a standard for software product assessment.
 - (vii) What is RRL ?
 - (viii) Write full form of SV.
 - (ix) True or false : Risk is attach with past happenings.
 - (x) Define Software Estimation.
 - (xi) Define Critical Path.
 - (xii) Define Software.
 - (xiii) Give full form of COTS.
 - (xiv) Define Resource.
 - (xv) Write down Parkinson's Law.
2. (A) Attempt any **two** : **10**
- (i) What are the activities of SPM ? List out all and explain it in details.
 - (ii) Explain Product Flow Diagram and Product Breakdown Structure with example in details.
 - (iii) Describe step-3 "Analyze Project Characteristics".
- (B) Explain Waterfall Model with advantages and disadvantages. **4**

OR

Explain COCOMO-II in details. **4**

3. (A) Attempt any **two** : 4
- (i) Explain Expert Judgment technique.
 - (ii) What is the use of float value in AON diagram ? And what it indicates ?
 - (iii) Explain Bottom-up estimation in brief.
- (B) Explain Activity –based approach and Hybrid approach in Activity Planning. 4

OR

- Define Risk. And write short note on Risk Identification. 4
- (C) Listed in the table are the activities and sequencing requirements necessary for the completion of the prototype of a particular product. 6

Activity	Precedence	Duration (Days)
A	---	3
B	---	4
C	A	3
D	B	9
E	B	4
F	C	7
G	C	6
H	F, G	2
I	D, H	4
J	E, I	3
K	J	5

- (a) Draw a Activity-on –node network diagram for this project.
- (b) Find the Critical Path. What is its length ?

OR

- (i) Why project plan needs to get agreement from Project Committee Board ? 2
 - (ii) Write a short note on Monte Carlo Simulation. 4
4. (A) Attempt any **two** : 8
- (i) Write short note on Time-line chart and Slip chart.
 - (ii) Define Prototype. Why it is used ? Explain it in details.
 - (iii) List out the various techniques to assign priority to the activities for resource allocation and explain all in details.

(B) Attempt any **two** : 6

- (i) Define milestone technique, 75/25 technique, percentage complete technique.
- (ii) The following details are about previously developed software modules :

Module	Inputs	Outputs
A	11	10
B	9	11

The new module C has 10 Inputs and 12 Outputs. Which of the module (A or B) is the closet analogy in terms of Euclidean Distance ?

- (iii) What is the use of Earned Value Analysis ? Write down formula to find EAC.

5. (A) List out different types of Contracts and explain in details. 4

OR

Explain Oldham-Hackman job characteristic model in detail. 4

(B) Attempt any **three** : 6

- (i) Define Software Quality.
- (ii) Write a note on Stress.
- (iii) List out the measures to reduce the disadvantages of group decision making.
- (iv) What is ISO 9126 standard ? Why it is used ?

(C) Explain Inspection method which helps to enhance the Software Quality. 4

OR

List out various types of Organisational structure and explain all in brief. 4
