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**2005E739**

Candidate's Seat No .....

**B.C.A. (Sem.-V) Examination**  
**SEC 301 Software Project Management**  
**May-2017**

Time : 3 Hours]

[Max. Marks : 70

Q-1(A) List out steps of project planning. And explain step-1 (Identify Project Scope and Objectives) in details. [7]

**OR**

(A) Explain activities covered by Software Project Management. [7]

Q-1(B) Explain different forms of programme. [7]

**OR**

(B) (i) What is management? [3]

(ii) Explain categories of stakeholder. [4]

Q-2(A) What is prototype? Also explain types of prototype and drawback of prototype. [7]

**OR**

(A) Explain Incremental delivery along with its advantages. [7]

Q-2(B) Explain stages where estimates are done. [7]

**OR**

(B) (i) The following details are about previously developed software modules.

Module	Inputs	Outputs
A	6	5
B	7	5

A new module C has 8 inputs and 7 outputs. Which of the modules (A or B) is the closest analogy in terms of Euclidean Distance? [3]

(ii) Explain Waterfall model. [4]

Q-3(A) Draw the Activity on Node network diagram for the following problem. Find out critical path and total duration. [7]

Activity	Duration(Days)	Precedents
A	2	-
B	3	A
C	3	A
D	4	C
E	8	D
F	6	B,E
G	2	F

**OR**

Explain rules for formulating network model. [7]

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Q-3(B) Define Risk. Explain category of risk. [7]

OR

- (B) (i) Explain Labelling conventions of network diagram. [3]  
(ii) Write a short note on Risk Planning. [4]

Q-4 (A) List out and explain nature of resources. [7]

OR

What is contract? Explain stages in contract placement. [7]

Q-4(B) What is earned value analysis? Also explain methods of assigning earned value. [7]

OR

- (B) (i) Explain Gantt chart. [3]  
(ii) Explain details which are required to specify quality of product. [4]

Q-5 Do as directed.

**Fill in the blank.** [7]

1. The people who has stock/interest in project is called \_\_\_\_.
2. Money is \_\_\_\_ resource.
3. KLOC stands for \_\_\_\_.
4. A very jagged slip line indicates need for \_\_\_\_
5. Waterfall model is also called \_\_\_\_.
6. An uncertain event or activity that occurs has a positive or negative effect is called \_\_\_\_.
7. Each loop of the spiral is called \_\_\_\_.

**True or False** [7]

1. Project is a planned activity.
  2. Operational costs includes cost of development staff.
  3. Expert judgement model is used to represent characteristics of target system.
  4. Risk acceptance is a do-nothing option.
  5. The Bottom-up estimating technique is used if there is no historical data available.
  6. Later increments might required modification to earlier increments. This is known as Software breakage.
  7. Waterfall model can be expanded into spiral model.
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