

7th Semester Regular / Back Examination 2015- 16

SOFTWARE PROJECT MANAGEMENT

Branch: CSE

Time: 3 Hours

Max marks: 70

Q.Code: T473

**Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.**

- Q1** Answer the following questions: (2 x 10)
- a) Define stakeholders. What are the different types of stakeholders?
 - b) What is RAG reporting?
 - c) Distinguish between variant and version in software configuration Management (SCM)?
 - d) Briefly explain the difference between CPM and PERT.
 - e) What is WBS? Give a suitable example of WBS?
 - f) What is project portfolio management? What are the aspects of the project portfolio management?
 - g) How to calculate Cost Performance Index (CPI) and Schedule Performance Index (SPI) of a project?
 - h) Differentiate between traditional project management and modern project management practices.
 - i) How review is different from testing in software project management?
 - j) What do you mean by software reliability? How verification is different from validation?

- ✓ Q2 a) What do you mean by software process models? Explain in detail the difference between waterfall model and V-process model. (5)
- b) What is software configuration management? Explain in detail the various stages of configuration management. (5)

- ✓ Q3 a) Explain in detail the COCOMO II model with suitable examples. (5)
- b) What is risk? Describe the types of risks. Explain the different steps involved in risk planning. (5)

- Q4 a) Describe CMMI in detail. How CMMI is different from CMM? (5)
- b) What is review? Explain in detail the review process. (5)

- Q5 a) Explain the project termination process. What are the reasons for project termination? (5)
- b) Write down Oldman-Hackman job characteristics model. (5)

- Q6 a) Explain the various department structures in a software project. State the advantages of each department structure. (5)
- b) Create a precedence activity network using the following details. Calculate the earliest and latest start and end dates and the float associated with each activity in the network. From this identify the critical path. (5)

Activity	Depends on	Duration(days)
A	-	2
B	-	3
C	-	4
D	A	6
E	B	7
F	C	5
G	D,E	8
H	B	9
I	H,F	5

- ✓ Q7 Describe the various steps of step-wise project planning. (10)

- ✓ Q8 a) What do you mean by team structure? Describe the different types of (5)

team structures in a software project.

✓ b) Write short notes on any two :

- (i) Earned value analysis
- (ii) Maslow's hierarchy of needs
- (iii) Caper Jone's Thumb Rule
- (iv) Putnam's work