Paper / Subject Code: 70905 / Elective : Project Management.



## (3 Hours)

[Total Marks: 100]

## N. B.: (1) All questions are compulsory.

/21/12/18

- (2) Make suitable assumptions wherever necessary and state the assumptions made.
- (3) Answers to the same question must be written together.
- (4) Numbers to the right indicate marks.
- (5) Draw neat labeled diagrams wherever necessary.
- (6) Use of Non-programmable calculators is allowed.

#### 1. Attempt any two of the following:

10

- List Bohem's top 10 principles of conventional s/w management performance. a.
- b. Write short note on test artifacts.
- Emphasize on the Work Breakdown Structure. c.
- Explain with diagram the concept of round-trip engineering. d.

#### 2. Attempt any three of the following:

15

- State 5 necessary improvements of waterfall model. a.
- List and explain the 3 generation of s/w development. b.
- Explain the process of cost estimation. c.
- Write short note on peer inspection. d.
- State the 5 approaches for improvement of s/w cost model. e.
- Write brief note on event sequences necessary for performance assessment. f.

#### Attempt any three of the following: 3.

15

- List the principles of modern s/w system. a.
- Explain the process of team cohesion. b.
- Explain the 2 stages of life-cycle with the help of diagram. C.
- What are the artifacts? How artifacts are organized into different set of the system? d.
- Write short note on transition phase. e.
- Emphasize on the cultural issues raised by the pragmatic artifacts. f.

#### Attempt any three of the following: 4.

15

- List top-level workflow of the s/w process and explain them. a.
- Explain the integration workflow with detailed labelled diagram. b.
- Write short note on minor milestone. c.
- Discuss the stakeholders of major milestones of the project. d.
- Why periodic assessment is must for the successful development of the s/w? e.
- Explain bottom-up approach of cost and schedule estimation. f.

### Attempt any three of the following: 5.

15

- Why automation of process is important in s/w development project? a
- Draw a neat diagram of roles in an s/w line-of-business organization. b
- Write short note on Project Organization.
- List the different set of activities evolved over the life cycle with the help of the diagram. C
- d List and explain different tools that automate the s/w development process. e
- Write short note on s/w change order. f

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6.	Attempt any three of the following:	15
a.	List various indicators of management metrics and explain them.	
b.	Why process control and instrumentation is required in s/w development process	
c.	Explain different features of process discriminants.	
d.	Compare between small-scale and large-scale projects.	
e.	What are process discriminants? List the various dimensions need to be considered while tailoring a process.	
f.	State and explain the four primary indicators of quality.	
7.	Attempt any three of the following:	15
a.	Explain the process of denouement.	13
b.	State two major improvements in next-generation s/w cost estimation.	
c.	Draw a labelled diagram of automation of construction process in next-generation environment.	
d.	What are issues involved in the conventional system development and how they can be resolved in the modern technique of developing s/w?	
e.	Explain the effect of 80-20 rule over the development of the project.	
f.	Write short note on culture shift.	

