Total Number of Pages: 02

B.Tech
PCIT4402

7th Semester Regular / Back Examination 2016-17
SOFTWARE PROJECT MANAGEMENT
BRANCH: IT,ITE
Time: 3 Hours
Max Marks: 70
Q.CODE: Y255
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) What are the methods that are used for improving motivation?
   b) What do you mean by *Outsource Project*?
   c) Define *pre-condition* and *post-condition* of a procedure.
   d) Write the advantages of PERT?
   e) What is *Resource Pooling*? How it helps to manage software project?
   f) Write the disadvantages of *function point (FP).*
   g) "A project network should have only one start and end node" Is it **True** or **False**? Justify**.**
   h) What is Brooks' Law for software effort estimation?
   i) What is GQM approach?
   j) Distinguished between *object-driven* and *product-driven* project.

Q2   What do you mean by uncertainties in the duration of activities within a project? The below table shows the PERT activity time estimates, calculate the expected duration (t_e) and standard deviation (s) for each activity.   **(2+8)**

Activity	optimistic	Most likely	pessimistic
S	5	7	8
T	4	3	5
U	3	4	4
V	2	3	4
W	4.5	6	4
X	3	3	3.5
Y	2	2	2.5
Z	4	6	4.5

Q3 **a)** Explain the ISO 12207 Software development life cycle. **(5)**

b) What is software prototype model? Write the advantages and disadvantages of it. **(5)**

Q4 **a)** What do you mean by project control cycle? **(5)**

b) Explain different purpose of S/W configuration management. **(5)**

Q5 **a)** Explain the role of a chief programmer team and write the advantages and disadvantages **(5)**

b) What is activity based work breakdown structure? **(5)**

Q6 Explain the major external software quality characteristics of ISO 9126. Write the three importance of software quality. **(7+3)**

Q7 Briefly explain COCOMO II for software effort estimation with example. **(10)**

Q8 **Write notes on (Any two):** **(5 x 2)**

a) Six Sigma

b) Network Model for activity planning

c) Stackholder

d) Gantt Chart