

**R17****Code No: 844AG****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA IV Semester Examinations, July/August - 2021****SOFTWARE PROCESS AND PROJECT MANAGEMENT****Time: 3 Hours****Max.Marks:75**

**Answer any five questions**  
**All questions carry equal marks**

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- 1.a) What are the basic principles of software process change? Explain.  
b) Differentiate between CMM and PCMM. [8+7]
- 2.a) Explain about different process reference models.  
b) What are the key process areas of Repeatable process? Discuss. [8+7]
3. List and explain various life-cycle phases in brief. [15]
- 4.a) How the software cost can be estimated? Discuss different parameters used to estimate the software cost.  
b) Explain the term artifacts and discuss in detail about management artifacts. [8+7]
- 5.a) Explain the design principles of work breakdown structure.  
b) What are the characteristics of the milestones occurring at the end of the construction phase? Explain. [7+8]
- 6.a) How the concurrency among the stakeholders will be achieved using major milestones of the software process? Discuss.  
b) What are the fundamental flaws in conventional work breakdown structures? Explain how to overcome these flaws. [7+8]
- 7.a) What is the purpose of seven core metrics used in software project management? Explain.  
b) What are the quality indicators used for managing software process? [8+7]
- 8.a) Describe the Incremental Design Process used in the CCPDS-R Case Study.  
b) What are the parameters used to describe CCPDS-R technology improvements over modern software process? [7+8]

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