

Mid-West University
Examinations Management Office
Semester End Examinations 2081

Bachelor level/ B.E. Computer/ 5th Semester

Time: 3 hours

Subject: Software Engineering (CO453/CO513)

Full Marks: 50

Pass Marks: 25

- *Attempt all the questions*
 - *Figures in the margin indicate full marks.*
 - *Assume suitable values, with a stipulation, if necessary.*
 - *Candidates are required to answer the questions in their own words as far as possible.*
1. Describe software process and list the name of some process model. Explain software crisis and myths with reference to software management concepts. [2+3]
 2. Is software metrics can be used to improve project management and planning? What are some common challenges in collecting and interpreting software metrics? [2+3]
 3. What is software project planning and risk? Discuss the software risk management strategies. [2+3]
 4. What is software quality assurance and why is it important in software development? Discuss the relevancy of ISO 9000 Quality Standards. [3+2]
 5. What is software quality assurance? Describe the main elements of a SCM process. [1+4]
 6. What is software analysis and why is it a critical phase in the software development life cycle? Compare between functional and non-functional requirements. [2+3]
 7. What are the common modular decomposition styles used in software architectural design? Explain transform and transaction mapping. [3+2]
 8. What is the relation between software validation and verification? Compare Black-Box Testing with White-Box Testing. [1+4]
 9. What is object-oriented analysis and design how does it differ from traditional structured analysis? Explain about the key findings in your software engineering field visit. [2+3]
 10. Write short notes on *any two*: [2x2.5]
 - a) Software measure, metrics & indicator
 - b) SQA plan
 - c) Software design patterns

The End