5TH SEM./ CSE/IT/ 2020(W) NEW

TH3-SOFTWARE ENGINEERING

Full Marks: 80　　　　　　　　　　　　　　　　　　Time- 3 Hrs

Answer any five Questions including Q No.1& 2

Figures in the right hand margin indicates marks

1.　　Answer **All** questions　　　　　　　　　　　　　2 x 10
   a. Differentiate between program and software product.
   b. What are the responsibilities of Project Manager?
   c. Define cohesion and coupling.
   d. What do you mean by unit testing?
   e. Define error seeding.
   f. What is project planning?
   g. Name two approaches of software design.
   h. What is project scheduling?
   i. Define software reliability.
   j. What is prototype?

2.　　Answer **Any Six** Questions　　　　　　　　　　　6 x 5

   a. Explain why the spiral life cycle model is considered to be a meta model.
   b. Define COCOMO. Explain the basic features of COCOMO model.
   c. Explain the characteristics of a good interface. Classify the user interface.
   d. What is SRS? Explain the characteristics of a good SRS document and its contents.
   e. Explain different types of integration testing approaches used in software testing.
   f. Discuss about various project size estimation metrics.
   g. What is fata flow diagram? Write the function of each symbols used in DFD. Discuss the short comings of DFD model.

3.　Explain the function of each phase of classical waterfall model, used in software development.　　10

4.　Define system debugging. Discuss about various approaches and guidelines for debugging a software system.　　10

5.　What is risk? Describe various activities associated with risk management in software development.　　10

6.　What is the aim of testing? Discuss different methodologies used for white box testing.　　10

7.　What is software quality and how is it achieved? Discuss software quality management system.　　10