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B. TECH.**THEORY EXAMINATION (SEM–VI) 2016-17
SOFTWARE ENGINEERING****Time : 3 Hours****Max. Marks : 100****Note : Be precise in your answer.****SECTION – A**

- 1. Attempt all parts of the following questions:** **10 x 2 = 20**
- (a) What is the software crisis?
 - (b) Write major software characteristics.
 - (c) Write the methods of requirements elicitation.
 - (d) Write the differences between software and software engineering.
 - (e) What is the difference between Verification and Validation?
 - (f) How software design can be classify?
 - (g) Write major software Design Tools.
 - (h) Write the names of design principles.
 - (i) Write the differences between Top- downs and bottom-up approaches.
 - (j) What is software quality?

SECTION – B

- 2. Attempt any five parts of the following questions:** **5 x 10 = 50**
- (a) What is meant by “Formal Technical Review”? Should it access both programming style as well as correctness of software? Give reasons.
 - (b) Compare ISO and SEE-CMI model.
 - (c) What is Risk management? How are project risks different from technical risks?
 - (d) What is a data flow diagram? Explain rules for drawing good data flow diagrams with the help of a suitable example.
 - (e) Explain software quality assurance (SQA) with life cycle.
 - (f) Explain software development life cycle. Discuss various activities during SDLC.
 - (g) List five desirable characteristics of good SRS document. Discuss the relative advantages of formal and informal requirement specifications.
 - (h) What are the characteristics of a software process?

SECTION – C

- Attempt any two parts of the following questions:** **2 x 15 = 30**
- 3.** What do you understand by coupling and cohesion? What roles they play in software design? Describe the properties of best coupling and cohesion giving examples of each.
 - 4.** What is a Structure Charts? Explain rules for drawing good Structure Charts diagrams with the help of a suitable example.
 - 5.** Define the following:
 - (i) Water fall Model
 - (ii) Spiral Model