THOUBLE

(b) Explain the systemal model of collays: TBC/TBI-502

B. C. A./B. SC. (IT) (FIFTH SEMESTER) END SEMESTER EXAMINATION, 2018

SOFTWARE ENGINEERING

Chan of Time: Three Hours

Maximum Marks: 100

- Note:(i) The question paper contains five al comonica questions.
 - (ii) All questions are compulsory.
 - (iii) Instructions on how to attempt a question are mentioned against it.
 - (iv) Total marks assigned to each question bus are twenty.
- 1. Attempt any two questions of choice from (a), (b) and (c). (2×10=20 Marks)
- (a) "Software is developed and engineered; it not manufactured in classical sense." Explain. Illustrate with a diagram that software does not wear out while hardware does with time.

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- (b) Explain the waterfall model of software engineering. How is classical waterfall model different from iterative waterfall model?
- (c) Define Software Engineering. Explain it as a layered technology. What is the most desirable software quality attributes?
- 2. Attempt any two questions of choice from (a), (2×10=20 Marks) (b) and (c).
 - between difference (a) Explain validation. Discuss and verification V-Process model and its significance in software development.
 - (b) Describe the various strategies of design. Differentiate between flowchart and DFD.
 - failure. and fault error, (c) Define Differentiate between unit testing and module testing.
 - 3. Attempt any two questions of choice from (a), (2×10=20 Marks) (b) and (c).
 - (a) Enumerate the different types of cohesion that a module might exhibit.
 - (b) What is the importance of testing? Explain different types of testing carried out during complete SDLC.

(3)

- (c) What is software project estimation ? Write in brief about COCOMO estimation models.
- 4. Attempt any two questions of choice from (a), (2×10=20 Marks) (b) and (c).
 - (a) "Partitioning a problem in software development helps a lot." Justify your
 - (b) Explain the importance of maintenance. Briefly discuss the few reasons which are responsible for software modifications. different types the Discuss maintenance.
 - (c) What is re-engineering and reverse engineering? How are they carried out? Explain.
 - 5. Attempt any two questions of choice from (a), (2×10=20 Marks) (b) and (c).
 - (a) What is software reliability? State its significance in software engineering. Differentiate between hardware and software reliability.
 - (b) What is ISO 9000 certification? Write a comparative note on ISO and CMM.
 - (c) What are the CASE tools? How do they aid in software development life cycle?

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