G 1761 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2016

Eighth Semester

Branch : Computer Science and Engineering/Information Technology

CS 010 805 G02
IT 010 805 G05 } SOFTWARE ARCHITECTUE (Elective IV) [CS, IT]

(New Scheme—2010 Admission onwards)

[Regular/Supplementary]

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 3 *marks.*

1. Briefly explain the codification cycle for Science and Engineering.
2. What is design selection analysis ?
3. Write note on formalizing the architecture of a specific system.
4. Write short note on the language problem for software architecture.
5. Briefly explain an event based style.

(5 × 3 = 15 marks)

Part B

Answer **all** *questions.*
Each question carries 5 *marks.*

6. Write note on the status of software architecture.
7. What is spectrum analysis ?
8. What do you mean by architectural formalism ? Write short note on any *four* formalisms.
9. Explain how implicit invocation can be added to ADA.
10. Write note on Aesop.

(5 × 5 = 25 marks)

Turn over

Part C

Answer **all** *questions.*
Each question carries 12 *marks.*

11. Explain the architectural style based on process control loops.

Or

12. Write note on (i) Layered systems ; (ii) Interpreters.

13. Explain the implementation of a design space on a QFD framework.

Or

14. Write note on the structural dimensions that represent the decisions determining the overall structure of a user-interface system.

15. Explain how an architectural design space can be formalized.

Or

16. Write note on (i) Filters ; (ii) Pipes ; (iii) Pipe and filter system.

17. Write note on architectural language with first class connectors.

Or

18. Write note on the modularization provided by programming languages.

19. Write note on the observations about environments for architectural design.

Or

20. Explain the universal connector language UNICON.

(5 × 12 = 60 marks