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Code No.: 32004 AS

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**M.C.A. II-Semester (CBCS) Advanced Supplementary Examinations, August-2017**

**Software Engineering**

Time: 3 hours

Max. Marks: 70

*Note: Answer ALL questions in Part-A and any FIVE from Part-B*

**Part-A (10 × 2 = 20 Marks)**

1. What is software development life cycle?
2. Define Software process.
3. Draw an importance of software requirements specification.
4. Identify the importance of functional requirements.
5. Define data design.
6. Differentiate between architectural design and data design.
7. How can a regression testing be performed?
8. What is Pair Programming?
9. Define business process reengineering.
10. List the software layers.

**Part-B (5 × 10 = 50 Marks)**

11. a) What is a software process model? Explain waterfall model. [5]  
b) Differentiate waterfall model with incremental process model. [5]
12. a) Describe Requirements Process. [5]  
b) Illustrate Architecture Views. [5]
13. a) Explain different types of software risk items. [6]  
b) Differentiate between reactive vs proactive risk strategy. [4]
14. a) What is testing in software engineering? [4]  
b) Explain the process of Black-box testing. [6]
15. a) Write about Personal and Team software process (PSP and TSP). [4]  
b) Explain how the product and process are related. [6]
16. a) Name and explain various software Quality Attributes. [5]  
b) Write the importance of documenting architecture design. [5]
17. Answer any *two* of the following:
  - a) Data design at the component level. [5]
  - b) White Box testing. [5]
  - c) Capability Maturity Model Integration (CMMI). [5]

