

Total No. of Questions : 12]

SEAT No. :

**P5508**

[Total No. of Pages : 2

**[5672]-204**

**F.Y. M.C.A. (Engineering)**

**SYSTEM ANALYSIS AND DESIGN**

**(2013 Pattern) (Semester - II)**

*Time : 3 Hours]*

*[Max. Marks : 50*

*Instructions to the candidates:*

- 1) *Neat diagrams must be drawn wherever necessary.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Assume suitable data if necessary.*

**Q1)** a) Explain agile development model in detail with a suitable example. [4]

b) Explain Incremental life cycle model. What are its advantages & drawbacks? [5]

OR

**Q2)** a) What is information system? Explain its components in detail. [5]

b) Explain Reuse oriented Software Engineering in detail. [4]

**Q3)** a) Explain the requirements engineering process in detail. [4]

b) Explain the characteristics of software requirements. [4]

OR

**Q4)** a) What is meant by Feasibility analysis? Explain its types. [4]

b) Explain the phases of software development process. [4]

**Q5)** a) Construct a Dataflow diagram (level 0 & 1) for Hotel Automation system. Explain its cardinality. [5]

b) Differentiate between physical and logical DFD? [3]

OR

**Q6)** a) Draw an Entity Relationship Diagram for online shopping system. Explain its cardinality. [5]

b) Explain decision tables with its components. [3]

**P.T.O.**

- Q7) a)** Explain various coding techniques in detail. [4]  
**b)** Explain the technique of designing Output Reports. [4]

OR

- Q8) a)** What are the methods of input data collections? Explain with a suitable Example. [4]  
**b)** Differentiate between Cohesion and Coupling. [4]

- Q9) a)** Explain the concept of software Maintenance. [4]  
**b)** Explain audit of information system in detail. [4]

OR

- Q10) a)** Define the concept of Software Testing. Explain its various types. [4]  
**b)** Explain the concept of Control of information systems in detail. [4]

- Q11) a)** Explain in Detail service oriented architecture. [4]  
**b)** Explain Distributed Software engineering with a suitable example. [5]

OR

- Q12) a)** What is software deployment environment explain in detail. [4]  
**b)** Differentiate between Software development and software deployment environment. [5]

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