



RF-4813
MCA (Sem. III) (ATKT) Examination
April / May – 2010
Paper-303 : Software Engineering - I

Time : 3 Hours]

[Total Marks : 70

Instruction :

(1)

<p>नीचे दृश्यावल निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p>☛ MCA (Sem. 3) (ATKT)</p> <p>Name of the Subject :</p> <p>☛ Paper-303 : Software Engineering - 1</p> <p>☛ Subject Code No. : 4 8 1 3 ☛ Section No. (1, 2,.....) : Nil</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; height: 60px; margin-top: 10px; display: flex; align-items: center; justify-content: center; padding: 10px;">Student's Signature</div>						

1 Attempt on any two from the following : 14

- (i) Write a note on waterfall model, listing its advantages and limitations.
- (ii) What is project management? Which resources are used for it? Discuss any one resource.
- (iii) Discuss the design heuristics.

2 (a) What is Cohesion and Coupling? What is their importance? Discuss any one. 7

(b) List the design concepts. Discuss any one. 7

OR

(b) Explain various techniques used of requirements collection and analysis. 7

- 3** Attempt any **four** from the following : **24**
- (i) What is basis path testing? Explain it using cyclomatic complexity.
 - (ii) Discuss about the 3D Function Point based project estimation technique.
 - (iii) Write a note on RMMM.
 - (iv) Write a note on Software Maintenance.
 - (v) Discuss about any one Black Box testing Technique?
- 4** Draw the ER diagram and DFD upto level 1 for the **18**
Departmental Store application with following assumptions :
- (i) The store has items under various categories.
 - (ii) Items are sold to customers; invoice is generated.
 - (iii) Items are purchased from suppliers upon shortage.
 - (iv) Stock report can be taken at any time; showing the consumption of items, and quantity on hand.
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