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DG-1737

B. Sc. (I.T.) (Sem. V) Examination

March / April - 2016

504 : System Analysis & Design

Time : **3** Hours] [Total Marks : **70**

Instruction :

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :
☛ **B. Sc. (I.T.) (Sem. V)**

Name of the Subject :
☛ **504 : System Analysis & Design**

☛ Subject Code No. : **1 7 3 7** ☛ Section No. (1, 2,.....) : **Nil**

Seat No. :

Student's Signature

1 Answer the following questions : (attempt any nine) **18**

(1) Explain the term Adaptive maintenance.

(2) What are the disadvantages of systematic approach model of software development ?

(3) Explain how redundancy and contradictions can be identified using decision tables.

(4) What is region of minimum cost ?

(5) All the tasks performed at the time of error, is called as _____ cohesion.

(6) To develop a project at a short period time you will follow _____ model of software development. Justify.

(7) Define exciting requirements, functional requirement and non-functional requirement ?

(8) State the advantages of functional independence.

(9) What is cyclomatic complexity ? How can it be calculated ?

(10) Define different levels of USE CASES.

2 Answer the following questions : (attempt any three) **18**

(1) Explain coupling types. If two components are stamp coupled, how will you convert it to data coupling ? Explain with example.

(2) What is factoring and Transform flow ? Explain the steps of converting transaction flow into transform flow.

(3) What is BVA, comparison and equivalence partitioning ?

(4) Discuss diagramming mistakes of DFD.

3 Answer following questions : (attempt any two) **16**

(1) Explain different types of control structure testing.

(2) Explain types of condition testing.

(3) What is Orthogonal testing ? When should it be used ?

4 Do as directed : **18**

You and your team have been asked to develop a software system for online travel and tourism system which provides all means to travel OR movie ticket booking system for a chain of multiplex with multiple screens. Prepare 2-level DFD, data dictionary and process specification of one parameter and one process respectively.
