2005 INDIRA GANDHI NATIONAL OPEN UNIVERSITY (IGNOU) M.C.A

MCA (REVISED)
TERM-END PRACTICAL EXAMINATION
DECEMBER 2O05
SYSTEMS ANALYSTS AND DESIGN

MCS-014

Time : 2 hour

Marks : 100

Note :
Question number 7 is co',r'.pulsory. AnsLoerony three questionslrcm the rest.

l. (a)
Define the ierm 'lnformationSgstem'.List at l€ast
five characteristics of a s!6tem. Explain real time
systemsand distributed systems. 10

(bl

List ai leasi 4 rules for namjng tables and fteids.
The list should also include at least 6 propefties of
database fi€lds that are io be s€t while designing

them.

10

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P.T.O

(c)
Dilferentiate behreen the following pairs :
(i)
Batch process'ng and Online transaction
processing
(ii)
Decision support system 3nd Expert system
(iii)
Alpha testing and Beta tesling
(iv)
Analysis and Design
2-Suppose 9ou are a project ma$ag€r. You are requiced to
develop S,^'V for a Hoiel Manag€ment System. Writethe
'

solufionof ihjs problemin the lollowing way :

Scope

Data dictionary

Inpuvoutput design

DFD (upto at least 3 levels)

3.

(a) Explain the rol€s of llre various participantsinvolved in Joint Application Development.

(b)

Define coupling, and explain the following types ot ccuplins : l0

. Data coupling

. Stamp coupling

. Control coupling

4. (a) What is an obj€ct oriented CASE tool ? Listfive iypes of CASE tools, and four features of CASE based development. 10

(b) Explain Indexed Sequential and Hashed File organizations10

Whai is a decision suplrort ststem ? Explain the componentsof a Decision Support System with the help ol a diaya'n. 10

(b) Whai is an Audit sofh{'ar€ ? Explain any hro commerciaj audit solhvares. Also list four ber]efifs of auclit.