

MCA (Revised) / BCA (Revised)

Term-End Examination

June, 2017

03491

MCS-014 : SYSTEMS ANALYSIS AND DESIGN

Time : 3 hours

Maximum Marks : 100

(Weightage : 75%)

Note : Question number 1 is compulsory. Attempt any three questions from the rest.

1. (a) Draw a Data Flow Diagram (DFD) from context level till second level clearly showing various processes, data flow and data repositories for a "Student Information System". 10
- (b) What is meant by "Joint Application Development" ? Who are the participants in it ? What are their roles ? Explain briefly. 10
- (c) Explain any five fact finding techniques along with their advantages and disadvantages. 10
- (d) What is a CASE tool ? Explain the various components of a CASE tool with the help of a diagram. 10

2. (a) What is the need for Documentation ?
Draw a diagram depicting various stages of
the process of Documentation. 10
- (b) What is the role of a Systems Analyst ?
Explain any two skills that are required to
be a Systems Analyst. 10
3. (a) How does a structure chart differ from a
flow chart ? Draw a structure chart for a
"Student Information System". Make
necessary assumptions. 10
- (b) How does an E-R diagram differ from a
DFD ? Draw an E-R diagram for a
"Student Information System". Make
necessary assumptions. 10
4. (a) What is an Expert System ? Give an
example of an Expert System. What are its
features ? Explain the risks associated with
its use. 10
- (b) Prepare an outline of SRS for a "Student
Information System". Make necessary
assumptions. 10
5. (a) What do you mean by Information
Security ? Write a short note on Threats
and Risks in a system. 10
- (b) What is MIS ? How is it useful for
management control and strategic
planning in an organization ? 10