MCS-014

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## M.C.A. (REVISED)/B.C.A. (REVISED) (MCA/BCA)

## Term-End Examination June, 2020

MCS-014: SYSTEMS ANALYSIS AND DESIGN

Time: 3 Hours

Maximum Marks: 100

Weightage: 75%

Note: (i) Question No. 1 is compulsory.

- (ii) Attempt any three questions from the rest.
- (a) Draw a Data Flow Diagram (DFD) upto level-3 clearly showing various processes, data flow and data repositories for Doctor's

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appointment in a Hospital Management
System. Make necessary assumptions. 10

- (b) Write SRS outline for Doctor's

  Appointment in a Hospital Management

  System. Make recessary assumptions. 10
- (c) Explain the tasks performed by a Systems

  Analyst. 10
- (d) Explain how Waterfall model and
  Prototyping model can be accommodated in
  a spiral process model.
- 2. (a) What is JAD? What are its benefits and who are the key players? What are their roles?

- (b) Give full form of CASE. Draw a CASE diagram showing all components. Explain each component briefly.
- (c) Describe the characteristics of a good interface design. Describe the process of designing forms stating different steps involved.
- 3. (a) Explain the different types of feasibility needed to be studies during software development.
  - (b) How can risks and threats to IT system be identified, analyzed and managed? 10
- (a) What are the steps involved for designing a
   database. Explain using an example. 10
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- (b) What is modularity? How can it be achieved in Design? Explain the advantages of modular design.
- 5. Write short notes on the following:  $5 \times 4 = 20$ 
  - (a) Data Dictionary
  - (b) Decision Support System
  - (c) Coupling
  - (d) Cost-Benefit Analysis