

**B.C.A. (2010 COURSE SEM- II : SUMMER - 2018)**  
**SUBJECT: SYSTEMS ANALYSIS & DESIGN**

Day: **Wednesday**  
Date: **02/05/2018**

**S-2018-1725**

Time: **10.00 AM TO 01.00 PM**  
Max. Marks: 70

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**N.B.:**

- 1) Each question carries **FOURTEEN** marks.
  - 2) **Question No. 1 is COMPULSORY.**
  - 3) Attempt any **FOUR** questions from **Q.2 to Q.7.**
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- Q.1** ABC university decides to design the software for its library information system, which should allow only the authorized person to insert, delete, upgrade and select records related to books in the library. Design DFD's up to 2<sup>nd</sup> level. **(14)**
- Q.2** Explain various fact finding techniques in detail. **(14)**
- Q.3** Discuss various types of feasibility study. **(14)**
- Q.4** Explain Entity Relationship Diagram (ERD). Define all ERD notations. **(14)**
- Q.5** What do you mean by system analyst? Explain the role of system analyst. **(14)**
- Q.6** Explain the following : **(14)**  
a) Waterfall model b) Prototyping model
- Q.7** Write short notes on Any **TWO** of the following: **(14)**  
a) Design Dialog  
b) Objectives of Functional Decomposition Diagram (FDD)  
c) Structured English  
d) Decision tables  
e) Spiral model

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