

No. of Printed Pages : 3

**MCS-014**

**MASTER OF COMPUTER  
APPLICATIONS (REVISED)/  
BACHELOR OF COMPUTER  
APPLICATIONS (REVISED)  
(MCA/BCA)**

**Term-End Examination**

**June, 2025**

**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.*

---

---

**D-3030/MCS-014**

**P. T. O.**

1. (a) What is a system ? What is the need of system study ? What are different types of system ? Explain. 10
- (b) Draw ERD for “online shopping system”. Make necessary assumptions. 10
- (c) What is the need of feasibility study ? Explain different types of feasibility. 10
- (d) What is software maintenance ? Briefly explain different types of maintenance. 10
2. (a) Briefly explain computer system security issues. 10
- (b) Draw Level-0 and Level-1 DFDs for “Online Shopping System”. Make necessary assumptions. 10
3. (a) What is software development life cycle ? Explain different phases of this. 10

[ 3 ]

- (b) What is the role of system analyst ?  
Explain in detail. 10
4. (a) What is the process of documentation ?  
Explain various steps in it. 10
- (b) What is transaction processing system ?  
What are the components of transaction  
processing system ? 10
5. Write short notes on the following :  $2 \times 10 = 20$
- (a) Cost-Benefit Analysis
- (b) CASE tools

× × × × ×