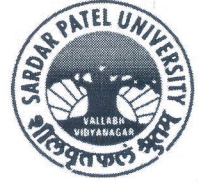




A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE
(AUTONOMOUS) (Grant-in-Aid)
Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120



Bachelor of Computer Applications (Semester -4) External Examination - 2026
US04SEBCA07: System Analysis and Design

Date: 20-03-2026, (Friday)

Time: 01:45 AM to 03:15 PM (1.5 HRS.)

Total marks: 25

Q-1 Write the most appropriate answer from the following MCQ.

[05]

- (1) _____ system is an example of Natural system.
(a) solar (b) information
(c) business (d) defense
- (2) The example of artificial system is _____.
(a) Air-conditioning (b) information
(c) water (d) education
- (3) _____ system is a self-contained.
(a) open (b) closed
(c) physical (d) conceptual
- (4) Program listing is the example of _____ output
(a) External (b) Internal
(c) Operational (d) Interactive
- (5) _____ is a collection of data fundamentals to a system
(a) Data Base (b) Data Input
(c) Data Output (d) Data Entry



Q-2 What is system? Explain the elements of system with example.

[10]

OR

Q-2 What is SDLC? Write any three steps followed by SDLC in detail.

[10]

Q-3 List categories of Fact Gathering Techniques and discuss any two of them in detail with its merits and demerits.

[10]

OR

Q-3 Define: Data Flow Diagram. Draw and discuss Symbols used in DFDs and explain thumb rules used to constructing DFDs.

[10]

===XXX===