## S. Y. B .C. A.
## System Analysis and Design (202)
## Subject Code: 8432

**Duration: 3 Hours**                                          **Total Marks: 100**

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**Q.1  Answer the following questions:**
(A) List and explain categories of information system.          (10)
(B) Define the term: System, System analysis, System design    (05)
(C) Explain business system concept in detail.                 (05)

**OR**

**Q.1  Answer the following questions:**
(A) Explain SDLC in detail.                                    (10)
(B) Explain structured analysis development method in detail.  (05)
(C) Explain system prototype method in detail.                 (05)

**Q.2  Answer the following questions:**
(A) List and explain fact finding techniques in detail.        (10)
(B) What is decision tree? Explain with example.               (05)
(C) Write a short note on "Data dictionary".                   (05)

**OR**

**Q.2  Answer the following questions:**
(A) What is data flow diagram? Explain notation used in DFD in detail.  (10)
(B) What is decision table? Explain with example.              (05)
(C) Write a short note on "Structure English".                (05)

**Q.3  Answer the following questions:**
(A) Explain output objectives in detail.                       (05)
(B) Explain types of output in detail.                         (05)
(C) Write a short note on input validation.                    (05)
(D) Explain in detail: Parity bit, Checksum, CRC               (05)

**OR**

**Q.3  Answer the following questions:**
(A) Explain key output questions in detail.                    (05)
(B) Explain output formats in detail.                          (05)
(C) Write a short note on Error messages.                      (05)
(D) What is dialogue design? Explain data entry dialogues in detail.  (05)

**Q.4  Answer the following questions:**
(A) What is cohesion? Explain types of cohesion in detail.     (10)
(B) What is normalization? Explain any one of them in detail.  (05)
(C) Write a short note on "Structure flowchart".               (05)

**OR**

**Q.4  Answer the following questions:**
(A) What is coupling? Explain types of coupling in detail.     (10)
(B) Explain span of control in detail.                         (05)
(C) What is HIPO chart? Explain with example.                  (05)

**Q.5  Answer the following questions:**
(A) Write a case study of payroll system using SDLC method.    (10)
(B) What is testing? Explain unit and system testing in detail.  (05)
(C) Explain parallel and direct system conversion in detail.   (05)

**OR**

**Q.5  Answer the following questions:**
(A) Write a case study of Bus ticket reservation system using SDLC method.  (10)
(B) Explain level of testing in detail.                        (05)
(C) Explain pilot and phase-in system conversion method in detail.  (05)