

Roll No. 0704029

BCA-602(N)

**B. C. A. (Sixth Semester)
EXAMINATION, May, 2018**

(New Course)

Paper Second

**INFORMATION SYSTEM ANALYSIS DESIGN AND
IMPLEMENTATION**

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

Section—A

(Short Answer Type Questions)

Note : All questions are compulsory. Each question carries 3 marks.

1. (A) What are the requirements of a good coding scheme ?
- (B) What do you understand by the term polymorphism in an object-oriented system ?
- (C) What is the difference between a physical and a logical DFD ?

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- (D) What are standards ? Explain the ISO standards.
- (E) What is the purpose of a data validation program ?
- (F) What is the difference between a class and an object ?
- (G) Explain user interface prototyping with example.
- (H) Why should a systems analyst be able to communicate well ?
- (I) Why is feasibility analysis necessary before designing a system ?

Section—B

(Long Answer Type Questions)

Note : Attempt any *two* questions. Each question carries 12 marks.

- 2. What is data dictionary ? Explain the steps of creating data dictionary.
- 3. What is structures walkthrough ? Explain the process of structured walkthrough.
- 4. Explain the feasibility study. What are the different types of feasibility studies ?
- 5. What is ERD ? Make an ERD for university enrolment.

Section—C

(Long Answer Type Questions)

Note : Attempt any *two* questions. Each question carries 12 marks.

- 6. Define the use of CASE tools in the analysis, design and implementation of information system.

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- 7. (a) What is fact findings ? How to do fact finding ?
(b) Explain the code reviews and its types.
- 8. (a) Explain the cost estimation and its different approaches.
(b) Give a brief requirements specification for bus ticket reservation system. Model it using objects.
- 9. A university has the following rules for a student to qualify for a degree with Physics as the main subject and Mathematics as the subsidiary :
(i) Marks should be 50% or more in Physics and 40% or more in Mathematics.
(ii) If marks in Physics are less than 50% then marks in Mathematics must be 50% or more. However Physics marks must be at least 40%.
(iii) If marks in Mathematics are less than 40% but those in physics are 60% or more than only examination in Mathematics has to be repeated.
(iv) In all other cases the student fails.

Write the above process using :

- (a) Structured English
- (b) A decision table.

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