

Ratan

Roll No.

PGDCA-106

P. G. D. C. A. EXAMINATION, 2017

Paper Sixth

SYSTEM ANALYSIS AND DESIGN

Time : Three Hours]

[Maximum Marks : 100

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 4 marks.

1. (A) What is the main difference between strategic and tactical information ? Explain with example.
- (B) What is the difference between business data processing systems and MIS ?
- (C) Why is feasibility analysis necessary before designing a system ?
- (D) What are the main sources of information in an organisation ?

- (E) What graphical tools are useful to a system analyst to understand user's requirements ?
- (F) Distinguish between technical, operational and economic feasibility.
- (G) How are goals determined ? What should be the characteristics of goals ?
- (H) What is the main difference between a flow chart and a DFD ?
- (I) Explain Entity and Relationship. In what way relationship is different from an entity ?
- (J) Is indexed sequential file organisation appropriate for a floppy disk ? Is yes, explain how the index will be organised.

Section—B

(Long Answer Type Questions)

Note : Attempt any *two* questions. Each question carries 15 marks.

- 2. In this information technology era, should the organisation structure be information oriented or customer oriented or both.
- 3. How do the DSS and MIS development process differ and why ?
- 4. What is the role of DFD as a documentation aid ? What is the difference between a source and a sink in a DFD ?
- 5. What is the difference between tangible and intangible benefits ? Give example of tangible and intangible benefits. What is meant by cost-benefit analysis?

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Section—C

(Long Answer Type Questions)

Note : Attempt any *two* questions. Each question carries 15 marks.

6. (i) Is a floppy disk an addressable memory ?
(ii) If yes, how is it addressed.
(iii) If a floppy disk rotates at 360 resolution per minute, what is its average latency time ?
7. What do you understand by the term data integrity ? How can data integrity be maintained in a database ? Explain and justify your answer.
8. Why are controls necessary in an information system ? What are the objectives of control ? What organisational measures are necessary to ensure proper control of an information system ?
9. Why are system tests necessary ? What are the objectives of system tests ? What is the difference between a pilot test and a parallel test ?