Roll No. ....
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DN-166

January 2020
Post Graduate Diploma in Computer Applications (PGDCA) Examination

Ist Semester
SYSTEM ANALYSIS AND DESIGN

Time 3 Hours]   [Max. Marks 100

Note : All all questions. All questions carry equal marks.

1.   Attempt any <u>two</u> parts :
  (a)   What is system analysis and design ? Also discuss the system development life cycle in brief?
  (b)   What is cost / benefit analysis ? Discuss.
  (c)   Distinguish between initial investigation and feasibility study ? How are they related to each other ?

2.   Attempt any <u>two</u> parts :
  (a)   Discuss in brief the structured analysis tools.
  (b)   Describe the concept used in constructing a DFD. Also draw a context level data flow diagram of "Order processing system" for a small business.
  (c)   Discuss the difference between decision tree and a decision table.

3.   Attempt any <u>two</u> parts :
  (a)   What is SQA ? Also discuss the dimensions of Quality.
  (b)   Give the difference between Alpha testing and Beta testing.
  (c)   Explain unit, integration and system testing.

4.   Attempt any <u>two</u> parts :
  (a)   "A number of activities are carried out under software implementation." Discuss.
  (b)   Define Maintenance. Also explain its types.
  (c)   Write a short note on conversion plans.

5.   Attempt any <u>two</u> parts :
  (a)   What is UML ? Discuss its role in design and analysis.
  (b)   Explain in brief the diagrams of UML.
  (c)   Differentiate sequence diagram and collaboration diagram with the help of an example.