Roll No. ...I.S.B.C.A3.S4s

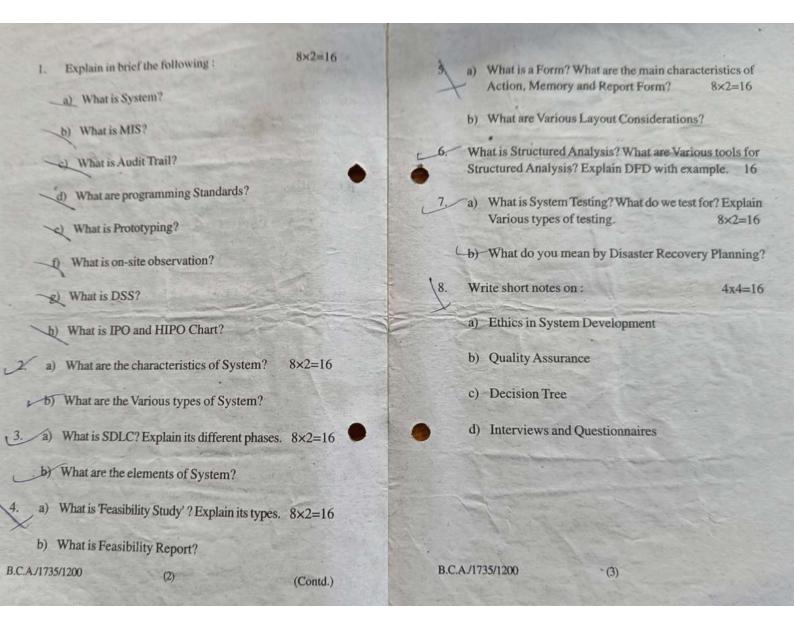**B.C.A. (III)**
1735

Sys. Anal & Desi.

B.C.A. (Part-III) Examination, 2017

Paper-V

BCA-305 : SYSTEM ANALYSIS & DESIGN

Time - Three Hours
Maximum Marks - 80

नोट :– (1) प्रश्न संख्या 1 अनिवार्य है। शेष प्रश्नों में से किन्हीं चार को हल कीजिए।

(2) सभी प्रश्नों के अंक समान हैं।

Note :- (1) Question No. 1 is compulsory. Attempt any FOUR questions from the remaining questions.

(2) All questions carry equal marks.

1. Explain in brief the following : 8×2=16

a) What is System?

b) What is MIS?

c) What is Audit Trail?

d) What are programming Standards?

e) What is Prototyping?

f) What is on-site observation?

g) What is DSS?

h) What is IPO and HIPO Chart?

2. a) What are the characteristics of System? 8×2=16

b) What are the Various types of System?

3. a) What is SDLC? Explain its different phases. 8×2=16

b) What are the elements of System?

4. a) What is 'Feasibility Study' ? Explain its types. 8×2=16

b) What is Feasibility Report?

5. a) What is a Form? What are the main characteristics of Action, Memory and Report Form? 8×2=16

b) What are Various Layout Considerations?

6. What is Structured Analysis? What are Various tools for Structured Analysis? Explain DFD with example. 16

7. a) What is System Testing? What do we test for? Explain Various types of testing. 8×2=16

b) What do you mean by Disaster Recovery Planning?

8. Write short notes on : 4×4=16

a) Ethics in System Development

b) Quality Assurance

c) Decision Tree

d) Interviews and Questionnaires

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B.C.A. (III)
1735   Sys. Anal. & Desi.

B.C.A. (Part-III) EXAMINATION, 2018
PAPER - V
BCA: 305- SYSTEM ANALYSIS & DESIGN

Time Allowed - Three Hours
Maximum Marks - 80

नोट :– (1) प्रश्न संख्या 1 अनिवार्य है। शेष प्रश्नों में से किन्हीं चार को हल कीजिये।

(2) सभी प्रश्नों के अंक समान है।

Note :- (1) Question No. 1 is compulsory. Attempt any FOUR questions from the remaining questions.

(2) All questions carry equal marks.

1.   Explain the following in brief -

(a)   What do you understand by Boundaries and interface in a system ?

(b)   What kind of information we need during sytem planning ?

(c)   What do you understand by obtrusive and unobtrusive observation ?

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(d)   What is Brain storming ?

(e)   What is structured Analysis ?

(f)   What is user Acceptance testing ?

(g)   Define system Entropy.

(h)   Define system security.

2.   Write short notes on following :-

(a)   System Testing

(b)   Elements of system

(c)   Technical & operational feasibility

(d)   Attributes of system Analyst

3. (a)   Explain pros and cons of each structured Analysis tool.

(b)   Draw.a DFD for college management,

4.   What do you understand by cost Benefit Analysis? Explain various costs & Benefits involved in cost Benefit Analysis.

5. (a)   Explain various requirements of form design.

(b)   What is test plan ? Explain various activities involved in test plan.

6. (a)   Explain different levels of quality Assurance.

(b)   Differentiate between MIS and DSS.

7.   Write short notes on following ;-

(a)   Data Dictionery

(b)   Post Implementation Review

(c)   Ethics in system Development

(d)   Structured English

8. (a)   What do you understand by conversion ? Explain various activities involved in conversion.

(b)   Explain various threats of system security.

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B.C.A. (III)

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Sys. Anal. & Desi.

B.C.A. (Part-III) Examination 2019

Paper- V

BCA-305: SYSTEM ANALYSIS & DESIGN

Time Allowed - Three Hours

Maximum Marks - 80

नोट :– (1) प्रश्न संख्या 1 अनिवार्य है। शेष प्रश्नों में से किन्हीं चार को हल कीजिये।

(2) सभी प्रश्नों के अंक समान हैं।

Note:- (1) Question No. 1 is compulsory. Attempt any FOUR questions from the remaining questions.

(2) All questions carry equal marks.

1- a) Explain various phases of system Development?
b) What is fact finding process during Investigation?
c) Explain some threat and risk in System Security.
d) Explain system analysis standards.

2- a) Explain characteristics and elements of system.
b) What is man- made information systems? Explain dimensions of Planning.

3- a) What are system performance constraints?
b) Explaini Economic Feasibilities.
c) Explain Cost and Benefit analysis of a new system.
d) What is Feasibility report?

4- a) What is data dicitionary? Explain IPO and HIPO charts.
b) What are pseudo codes? Explain decision tables.

5- a) What are Logical and Physical models of structured analysis? Discuss Data diagram.
b) Write and explain the steps for designing an Input / output form.

6- a) What are Management standards? Explain operating standards.
b) Explain the role of programming manual in documentation standards. Explain User manual.

7- a) Wha is system security? Explain ethics in system development.
b) What is system quality assurance? Explain system testing.

8- Write short notes on Any Four.
a) System development manual
b) Decision Tree.
c) Control for system success.
d) Categories determination for Cost and Benefit Analysis.
e) User requirements during Investigation
f) Open and Closed system.

B.C.A. (PART - III) EXAMINATION - 2020

Paper -V

BCA-305 : SYSTEM ANALYSIS & DESIGN

Time - Three Hours

Maximum Marks - 80
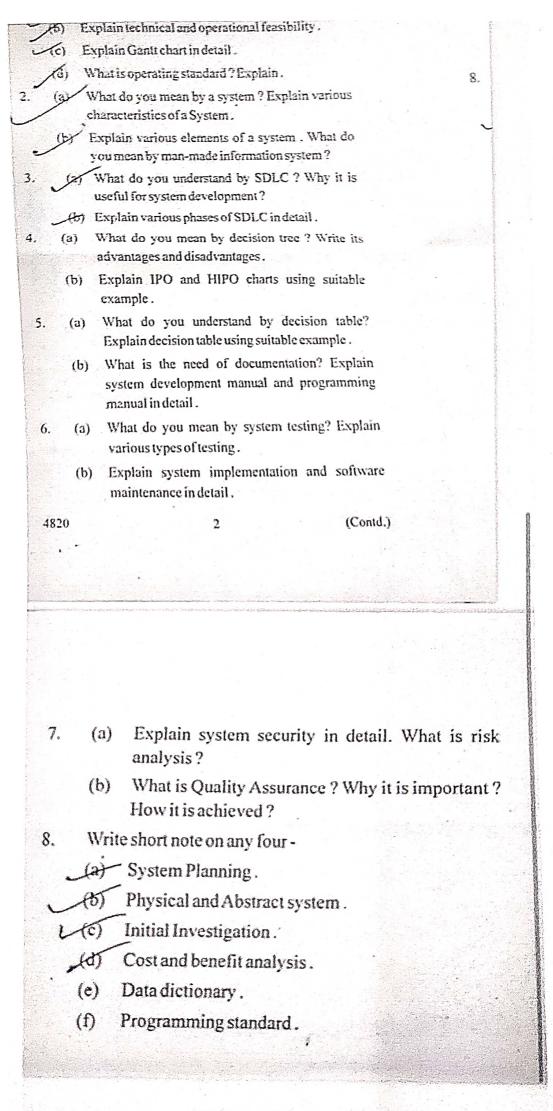
Note:- (1)   Question No.1 is compulsory. Attempt any FOUR questions from the remaining questions .

       (2)   All questions carry equal marks .

नोट:– (1)   प्रश्न संख्या एक अनिवार्य है। शेष प्रश्नों में से किन्हीं चार को हल कीजिये ।

       (2)   सभी प्रश्नों के अंक समान हैं ।

(ii) What do you mean by open and closed system ?

(b) Explain technical and operational feasibility.

(c) Explain Gantt chart in detail.

(d) What is operating standard ? Explain.

2. (a) What do you mean by a system ? Explain various characteristics of a System.

(b) Explain various elements of a system. What do you mean by man-made information system ?

3. (a) What do you understand by SDLC ? Why it is useful for system development ?

(b) Explain various phases of SDLC in detail.

4. (a) What do you mean by decision tree ? Write its advantages and disadvantages.

(b) Explain IPO and HIPO charts using suitable example.

5. (a) What do you understand by decision table? Explain decision table using suitable example.

(b) What is the need of documentation? Explain system development manual and programming manual in detail.

6. (a) What do you mean by system testing? Explain various types of testing.

(b) Explain system implementation and software maintenance in detail.

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7. (a) Explain system security in detail. What is risk analysis ?

(b) What is Quality Assurance ? Why it is important ? How it is achieved ?

8. Write short note on any four -

(a) System Planning.

(b) Physical and Abstract system.

(c) Initial Investigation.

(d) Cost and benefit analysis.

(e) Data dictionary.

(f) Programming standard.

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B.C.A. (III)

1735   Sys. Anal. and Desi.

B.C.A. Part-III
EXAMINATION - 2021
Paper - V
BCA 305 - System Analysis and Design

Time Allowed : **Three** Hours

Maximum Marks : **80**

Note : 1. Question No. 1 is Compulsory. Attempt any four from the remaining questions.

2. All questions carry equal marks.

1. (a) What is a form?   2×8=16

    (b) *Define HIPO chart.*

    (c) What kind of information we need at the time of system planning?

    (d) What do you understand by cost benefit analysis?

(e) Define Brainstorming.

(f) Differentiate between corrective maintenance and adaptive maintenance.

(g) Define system security.

(h) What is feasibility report?

2. Write short notes on following :   4×4=16

(a) Elements of system

(b) Levels of quality assurance

(c) Feasibility study

(d) On site observation

3. Differentiate between following :   4×4=16

(a) Decision Table and Decision Tree

(b) System Analysis and System Design

(c) Questionnaire and Interview

(d) Tangible Cost and Intangible Cost

4. (a) Draw a DFD of Employee Pay roll system.   8

(b) Write brief note on Audit Trail and Documentation.
                                                                  8

5. (a) Explain various Quality Factor specification.   8

(b) Explain Post Implementation Review. 8

6. (a) What are Ethics in system development? Explain. 8

(b) What is Testing? Explain various types of Testing. 8

7. Write short notes on the following : 4×4=16

(a) Disaster and Recovery

(b) Input output form Design

(c) Data Dictionary

(d) Software maintenance.

8. What do you understand by SDLC? Explain various phases in SDLC. 2+14=16

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B.C.A. (III)

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B.C.A. Part-III EXAMINATION - 2022

Paper - V

BCA 305 - System Analysis and Design

Time Allowed : **Three** Hours

Maximum Marks : **80**

Note : 1. Question No. 1 is Compulsory. Attempt any four from the remaining questions.

2. All questions carry equal marks.

1. (i) Differentiate between technical and operational feasibility of a project.

(ii) Give one example each for strategic and operational decisions.

(iii) What is the purpose of Gantt Chart?

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(iv) What do you mean by quality assurance?

(v) What is the significance of data dictionary?

(vi) Explain decision tree.

(vii) What is the main difference between analysis and design?

(viii) Differentiate between verification and validation.

2. (a) What is system? Explain characteristics and types of system.

(b) Explain various types of feasibility studies that the analyst should consider.

3. (a) Explain cost and benefit analysis of a new system? How cost/benefit analysis plays an important role in SDLC?

(b) Discuss different types of software testing.

4. (a) Describe the major considerations for system planning and control for system success.

(b) Describe the operations and user documentation.

5. (a) What are the security issues in system development? How does an organization prevent its database from security concerns?

(b) List and illustrate the primary uses and elements of a decision table.

6. (a) Summarize the factors to be considered in forms design.

(b) Explain different types of coupling and cohesion.

7. (a) Briefly describe the Waterfall model of software life cycle with the help of a suitable diagram.

(b) Draw ER diagram for a student information system for a university. Explain the concept of cardinality through it.

8. Write short notes on the following:

(a) Programming specifications

(b) Software maintenance

(c) Risk analysis in system security

(d) System analysis standards.

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