10. (a) Outline the characteristics of basicCOCOMO MODEL. 7½

(b) Give detail of various design components which are used to prepare DFD of a system.

11. Explain the following:

5×3=15

- (1) Line of Code
- (2) Function points
- (3) Decision Tree
- With a neat diagram explain the building blocks of CASE tool for software engineering.
- 13. Differentiate between the following:
 - (1) E-R diagram and DFD

 $5 \times 3 = 15$

- (2) Dynamic modeling and Functional modeling
- (3) Waterfall model and Spiral model

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(Printed Pages 4)

(20517)

Roll No.

BCA-VI Sem.

18027

B.C.A. Examination, May 2017
Information System Analysis Design and
Implementation

(BCA-602)

(New)

Time : Three Hours |

[Maximum Marks: 75

Note: Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Questions)

Note: Attempt all the five questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

3×5=15



- What do you mean by system analysis and system design?
 Explain the importance of software requirements analysis.
 Discriminate between risk analysis and feasibility analysis.
 Define the benefits of object oriented analysis over structured analysis.
- Define software process with suitable example.

Section-B

(Short Answer Questions)

Note: Attempt all the two questions out of the following three questions. Each question carries 71/2 marks. Short answer is required not exceeding 200 words.

7½×2=15

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- 6. Explain the key attributes of a system analyst for software development. $7v_2$
- 7. Determine the advantage of using Prototype software development model instead of Waterfall model?
- 8. Discuss the size and cost estimation methods of a software project. $7\frac{1}{2}$

Section- C

(Detailed Answer Questions)

Note: Attempt all the THREE questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 15×3=45

- 9. (a) Differentiate between Cohesion and Coupling. 71/2
 - (b) With a suitable diagram explain the working of Spiral model. 71/2

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10.	Wha	at do you mean by project scheduling? As	sume	
	that	a software development group has been a	isked	
	to 1	build a real-time controller for a me	dical	
	diag	gnostic instrument that is to be introduced t	to the	
•	mar	ket in nine months. After careful estim	ation	
	and	risk analysis, the software project man	nager	
	com	nes to the conclusion that the software	e, as	
	requ	nested, will require 14 calendar month	is to	
	crea	te with available staff. How does the pr	oject	
	man	ager proceed?	15	
11.	Disc	cuss the various levels of classical water	erfall	
	mod	lel.	15	
12.	Hov	v is software design different from soft	ware	
	codi	ing?	15	
13.	Ans	wer the following:	15	
	(a)	Line of code		
	(b)	Function points		
	(c)	Egoless programming		
	(d)	CASE tools		
	(e)	Decision tree.		

(20518) BCA - VI Sem. Roll No.

18027

B. C. A. Examination, May 2018

Information System Analysis Design &

Implementation

(BCA-602)

(New)

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt questions from all Sections as per 'instructions.

Section-A

(Very Short Answer Questions)

Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

3×5=15

List the advantages of prototype model of software development.

2. Mention the importance of requirement analysis in a software development life cycle. State the benefits of E-R diagram. Describe the disadvantages of Waterfall model. 4. List the different software size estimation techniques. Section-B (Short Answer Questions) Attempt any two questions out of the following three questions. Each question carries 71/2 marks. Short answer is required not exceeding 200 words. 71/2×2=15 Answer the following: 71/2 6. (a) Describe the key concept of object oriented programming. Or (b) Estimate the responsibilities of a software project manager.

Answer the following: (a) What do you mean by size of software? Why does a project manager need to estimate the size of a project? Constitution Or sierlans den bon Determine the advantage of using Spiral software development model instead of waterfall model. Explain the following: Class Object (iii) Attribute. Section-C (Detailed Answer Questions) Attempt any three questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 15×3=45 What is the significance of structure analysis in

software development life cycle?

15

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Roll No.

Total Questions: 13 [Printed Pages: 3

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B.C.A. VIth Semester Examination, May-2019

INFORMATION SYSTEM ANALYSIS DESIGN AND IMPLEMENTATION

(BCA-602)

Time: 3 Hrs.]

[M.M. : 75

Note: - Attempt all the Sections as per instructions.

Section-A

(Very Short Answer Type Questions) 3×5=15

- Note :- Attempt all the five questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.
- 1. What are the various duties performed by DBA?
- What are the feasibility analysis check points in the development cycle?

NA-575

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(1)

Turn Over

- 3. Explain various characteristics of a system.
- 4. State the benefits of E-R diagram.
- 5. What is project scheduling?

Section-B

(Short Answer Type Questions) 71/2×2=15

- Note: Attempt any two questions out of the following three questions. Each question carries 7½ marks.

 Short answer is required not exceeding 200 words.
- 6. Explain the SDLC with diagram.
- Explain the software, product and process quality with example.
- 8. Describe the key concept of object oriented model.

Section-C

(Long Answer Type Questions) 15×3=45

- Note: Attempt any three questions out of the following five questions. Each question carries 15 marks.

 Answer is required in detail.
- What is structured system analysis and design ? Explain the process of SSAD.

NA-575 (2)

- 10. (a) What do you mean by Joint Application Design (JAD) ?
 - (b) What are the various advantages and disadvantages of waterfall model?

11. Differentiate between:

- (i) Direct and Indirect Costs
- (ii) Fixed and Variable Costs
- (iii) Opportunity and Sunk Costs.
- 12. (a) Differentiate between PERT and CPM.
 - (b) Differentiate between project planning and project monitoring.
- 13. Write short notes on the following:
 - (i) Decision tree
 - (ii) Sequence diagram
 - (iii) Line of code
 - (iv) Function point metrices
 - (v) Attribute.

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13. Write short notes on:

- (i) Process Design
- (ii) Decision Tree
 - (iii) Line of code
 - (iv) Polymorphism
 - (v) Attribute

A (Printed Pages 4) (20620) Roll No..... BCA-VI Sem.

18027 (CV)

B.C.A. VIth Semester Examination, June-2020

INFORMATION SYSTEM ANALYSIS **DESIGN AND IMPLEMENTATION**

(BCA-602)

(NEW)

Time: Two Hours | [Maximum Marks: 75

Note: Attempt all the Sections as per

instructions.

Section - A

(Very Short Answer Type Questions)

Note: Attempt any four questions. Each question carries 3.75 marks. Very Short Answer is required not exceeding 75 words. $3.75 \times 4 = 15$

- 1. Define the characteristics of a system.
- Explain 'Analysis' and 'Design' phases of SDLC.
- 3. Explain the concept of RAD model.
- 4. Mention various steps in drawing DFD.
- 5. What do you mean by Feasibility study?

Section - B

(Short Answer Type Questions)

Note: Attempt any one question out of the following three questions. Each question carries 15 marks. Short answer is required not exceeding 200 words. 1×15=15

- 6. What are the various techniques used in SSADM?
- 7. What is Prototyping? Why do we need such a technique.
- Explain various steps used in object oriented analysis.

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Section - C

(Long Answer Type Questions)

Note: Attempt any Two questions out of the following Five questions. Each question carries 22.5 marks. Answer is required in detail. 2×22.5=45

- What are CASE tools? How does CASE support in software life cycle.
- Explain the different categories of maintenance in the SDLC.
- 11. What is Risk analysis? What are the various risk that can result in project failure?
- 12. (a) What do you mean by Joint Application Design (JAD)?
 - (b) What are the various advantages and disadvantages of waterfall model?

18027(CV)/3

- Explain the benefits of CASE tools.
- 4. Differentiate between CMM and ISO.
- 5. What do you mean by DFD?

Section - B

(Short Answer Type Questions)

Note: Attempt any one question out of the following three questions. Each question carries 15 marks. Short answer is required not exceeding 200 words.

- What do you mean by Feasibility study?Explain.
- What do you mean by Information Engineering? Explain.
- Explain the process of software project management.

18027(CV-II)/2

What is structured system analysis and design? Explain the process of SSAD.

Section - C

(Long Answer Type Questions)

Note: Attempt any two questions out of the following five questions. Each question carries 22.5 marks. Answer is required in detail. 2×22.5=45

Explain the concept of waterfall mode

with the help of suitable diagram.

10. What is Prototyping? Why do we need such a technique?

11. Draw a diagram of the architecture of a CASE environment and explain how different tools are integrated.

12. What are the various steps in object oriented design? Explain.

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P.T.

18027(CV-II)

B.C.A. Examination, June-2021

INFORMATION SYSTEM ANALYSIS

DESIGN AND IMPLEMENTATION

(BCA-602)