97669

BCA 3rd Semester Examination – December, 2022

INTRODUCTION TO OPERATING SYSTEM

Paper: BCA-201

Time: Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory.

1. Write short note on following:

16

- (i) Operating system
- (ii) FCFS
- (iii) Paging
- (iv) Disk structure

2. Explain the following:	16
(i) Distributed System	
(ii) Real Time System	
3. Give a complete description	n about Inter-process
communication. UNIT — II	10
4. Define deadlock and its chara	cteristics. Also explain
about Banker's algorithm.	16
5. Define CPU scheduling and so	heduling criteria. Also
explain about Round Robin and	queue algorithm. 16
UNIT — III	
6. Explain the following:	16
(i) Segmentation	
(ii) Swapping	
7. Define paging. Explain page r	eplacement algorithms
in detail.	16

(2)

UNIT - IV

8.	What do you understand by free space mana Explain in detail.	gement. 16
	Define Disk structure. Explain the following:	16
	(i) C-Scan	

(ii) C-Look

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BCA 3rd Semester Examination – December, 2022

DATA STRUCTURE - I

Paper: BCA-202

Time : Three Hours]

[Maximum Marks: 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory.

1. Write short note on following:

16

- (i) Data structure
- (ii) Array.
- (iii) Deque
- (iv) Graph

97670-6300-(P-3)(Q-9)(22)

P. T. O.

UNIT – I

 Define Data structure. Explain its categories Define Data structure. Explain its categories applications in detail. What do you mean by Pattern Materials algorithm. Explain in detail. Define string and string operation in detail. UNIT – II	16			
4. Explain the following:	16			
(i) Parallel arrays				
· (ii) Deletion in on array	:			
5. Describe the following:	.16			
(i) Garbage collection				
(ii) Two way linked list				
UNIT – III				
6. (i) Define Stack. Explain different operation on stain detail.	acks 8			
mi ucian,	Ü			
(ii) Give a complete description about recursion.	8			

7. Define queue. Explain operations on queues. Also describe its applications in detail.

UNIT - IV

8. What is traversing in data structure. Explain in detail.

16

9. Define graph. Explain sequential and linked representation of graphs.

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BCA 3rd Semester Examination – December, 2022

INTRODUCTION TO DATABASE SYSTEM

Paper: BCA-203

Time: Three Hours]

[Maximum Marks: 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one from each Unit. Q. No. 1 is compulsory.

1. We short notes on following:

16

- (i) Data
- (ii) Scheme
- (iii) Entity
- · (iv) Query

97671-6450-(P-3)(Q-9)(22)

P. T. O.

2. Explain the following:	16
(i) Advantages and disadvantages of data system	oase
(ii) Limitations of file based approach	
3. Define database management system. Explain functions and components in detail.	its
UNIT — II	
4. Describe in detail the three levels of architecture database system.	e of 16
5. Explain the following:	16
(i) Client server architecture	
(ii) Object based data models	
UNIT—III	
6. Describe the following :	16
(i) Abstraction and integration	
(ii) Entity set	
97671-6450-(P-3)(Q-9)(22) (2)	

7. Explain	the	following	•
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- (i) Relations
- (ii) Network Data model

UNIT - IV

- 8. Give a complete description about normalization. 16
- 9. Explain the following:
 - (i) Query optimization
 - (ii) Concurrency and recovery

(3)

Roll No.

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BCA 3rd Semester Examination – December, 2022

COMMUNICATION SKILLS (English)

Paper: BCA-204

Time: Three Hours]

[Maximum Marks: 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equals marks.

1. Answer any eight of the following questions:

 $8 \times 2 = 16$

- (a) What is communication?
 - (b) Write a note on the scope of communication.
 - (c) What is encoding and decoding?
 - (d) What is communication process?

(e) What i	is communication barrier	?
(f) Explain	n the semantic barrier.	
(g) What i	is verbal communication?	•
(h) What i	s dynamic communication	n 2
(i) Form v	words from prefixes : Anti	i
0/		abla
(k) Give sy	ynonyms of the words : C	alm. Caret
(l) Give a	ntonyms of the words : Id	lle, Fair.
	UNIT – I	
2. What do	you mean by communi	ication ? State :
functions.		16
3. Define cor	nmunication. Explain th	
responsible	e for its growth.	16
	UNIT – II	
4. What is vo	erbal communication ? E	xplain the features
	e verbal communication.	16
5. Define Ora	al communication. What a	re its advantages ?
97672-5950-(P-4)	(Q-9)(22) (2)	

UNIT - III

0. (a)	O. (a) Define soft skills. How these can be developed?		
(b)	16		
7. (a)	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		
Ò	Mono, Multi, Re, en		
(b)	Form the words from the following suffixes:		
	less, ful, ess, ility.		
(c)	Illustrate the meaning of the following words:		
	Loose, lose – breaks, brakes – dual, duel, – accept, except		
(d)	Give the <i>one</i> word substitute for the following;		
	(i) Absence of government.		
	(ii) One who does not believe in the existence of God.		
	(iii) The life history of a person written by himself.		
	(iv) Government by people.		
97672-59	50-(P-4)(Q-9)(22) (3) P. T. O.		

UNIT - IV

8.	What is reading efficiency: Flow	will	you	improve
	reading efficiency?			16
	what are the objectives of Interviews	s ?		

What are to

16