CSE 2nd YEAR 4th SEMESTER EXAMINATION, 2020

Database Management System

Subject code: CSE-223

Time----- 1.50 hours

Mid-term Examination-1

Full Marks---30

[N.B. ---- The figures in the right margin indicate full marks. You need to answer three questions]

_			
(k, 'k)	Define Database.		
أكلر	What are the applications of database system?		4
19)	Define with examples		5
7	i) Entity		
	ii) Entity Sets		
	iji) Primary key		
	iv) Super key		
	v) Candidate key		
2. a)	Explain E-R model with example.		5
c)	Explain the components of database system structure.		5
			,
β. A3	Describe the relational data model with example.		6
þ	Briefly explain the different types of database language.		4
p. //	What are the significant difference between a file processing system and a DBMS.		5
b)	Briefly explain the different types of database language.		4

All the Best

CSF Batch



CSESECOND YEAR FOURTH SEMESTER EXAMINATION, 2020

Microprocessor & Assembly Language

Subject code: 520210

Time-	1.50 hours	Mid-term Examination-1	Full Marks30
	[N.B The figures in the right	t margin indicate full marks. Answer Λ	II question properly]
K. K)	What is Microprocessor?		2
/ b ()	Write down the features of 8, 16 ar	nd 32 bit microprocessor.	4
1 5%	Describe the general architecture s	ystem of micro computer system.	4
2/. A)	What is Bus ?		2
$ y'\rangle$	What is microcontroller?		2
S	Explain the pin diagram of Intel 80	985.	6
3. a)	Write down the differences between	n register based and accumulator based	microprocessor. 3
b)	Explain the block diagram of Intel	8086 microprocessor.	6
c)	What is a flag register?		1

All the Best

CSE 10th Batch

NORTHERN COLLEGE B A N G L A D E S H

CSESECOND YEAR FOURTH SEMESTER EXAMINATION, 2020

Design & Analysis of Algorithms

Subject code: 520212

Mid-term Examination-1 Full Marks---30 Time----- 1.50 hours [N.B. --- The figures in the right margin indicate full marks. Answer All question properly] What is Algorithm?

Define the concept of Algorithm. What is pseudocode? Write the pseudocode structure for 2 5 Looping and Conditional statements. e) What is asymptotic notation? Explain the time space complexity of an algorithm. 3 Define Big "O" notation.

Distinguish between best-case, average-case and worst-case of an algorithm.

Write down an algorithm for adding and deleting item from Stack. 2 3 5 3. a) Write down the algorithm of data insertion and deletion from Queue. 4 b) Write the recursive process of Binary Search algorithm 6

All the Best

CSE 10th Batch

NORTHERN COLLEGE B A N G L A D E S H

CSE 2th YEAR 4th SEMESTER EXAMINATION, 2020

Numerical Analysis

Subject code: CSE-417

Mid-term Examination-1 Full Marks---30 Time----- 1.50 hours [N.B. ---- The figures in the right margin indicate full marks. You need to answer Three questions] 2 What is numerical analysis? 8 Construct bi-section method. " Define algebraic and transcendental equation? 3 16. If $f(x) = x^3 - x^2 + 2 = 0$ find out the root with Newton Rapson Method. 7 2 3. a) What is false position method? b) Find the polynomial satisfying the relation y = f(x) by (-1,9), (0,5), (2,3), (5,15). Calculate the 8 degree of the poly-nominal directly from the difference table also find f(3). 4. a) Write down the different between bi-section and false position method. 4 Construct Newton Rapson Method by prove f(x) = 0. 6

All the Best

CSE 10th Batch