UNIVERSITY OF CALCUTTA

FAKIRCHAND COLLEGE

B.Sc. (HONOURS) SEMESTER-V, 2021

INTERNAL ASSESSMENT

PAPER - CMSA-CC-5-11

F.M. - 30

(Answer Question *no.1* and any *four* from the rest)

1.	Answer any <i>four</i> question:	$1.5 \times 4 = 6$			
	a) What is DBMS?				
	b) Define SQL .				
	c) What is schema?				
	d) Define data dictionary.				
	e) Define Entity.				
	f) What is an attribute?				
	g) What is functional dependency ?				
2.	Define keys in DBMS. What are the different types of keys?	2+4			
3.	Differentiate between generalization and specialization in DBMS.	6			
4.	Explain 3-level architecture in DBMS with proper diagram.	6			
5.	i. What are the basic differences between traditional file system and DBM				
		6			
6.	Explain the data models in DBMS.	6			
7.	Draw an E-R diagram of library management.	6			
8.	Explain normalization of DBMS.	6			
9.	Explain 'aggregation' and 'view' in SQL.	3 + 3			

UNIVERSITY OF CALCUTTA

FAKIR CHAND COLLEGE

COMPUTER SCIENCE

B.Sc. SEM-V (Honours) Examination-2021

Paper: CC-12

Internal Assessment

Full Marks: 30

Answer Q.No.1 and any four from the rest.

1.	Answer any four questions:	1.5X4=6		
	a) What are the differences between OOP and POP?			
	b) What are the features of OOP?			
	c) What is early binding?			
	d) What are the differences java constructor and java method?			
	e) Differentiate between final, finally and finalize.			
	f) What is Meta class?			
	g) What is mutable string?			
	<i>5</i> ,			
2.	What is exception handling? What are the differences between Throw and Throws?			
		3+3		
3.	Explain about the lifecycle of java thread.	6		
4.	Explain about the role of constructor in java.	6		
5.	Explain about different type of inheritance procedure.	6		
6.	What is java package? What is the advantage of it?	3+3		
7.	What is interface? What are the differences between function overloading and			
	function overriding?	3+3		
8.	Explain about access control in java.	6		
9.	What is JVM? What are the differences between JDK, JRE and JVM?	6		

FAKIR CHAND COLLEGE

INTERNAL EXAMINATION SEMESTER - V

Subject: Computer Science

F.M. – 30 Paper: CMSA-DSE-A-1

(Answer Question no. 1 and any four from the rest.)

1.5*4 = 6					
3+3					
6					
What is smoothing spatial filter? Explain different types of smoothing Spatial filter?					
4+2					
6					
Explain Intensity-level slicing. Write two difference between Blurring and sharpening					
4+2					
Perform the Histogram Equalization on the following 8x8 image. The gray level					
distribution of the image is given below –					
6					
6					
mple.					
r					

2+2+2

FAKIR CHAND COLLEGE

INTERNAL EXAMINATION SEMESTER - V

Subject: Computer Science

F.M. – 30 Paper: CMSA-DSE-B-2

(Answer Question no. 1 and any four from the rest.)

1.	Answer any four questions:				
	a.	Write the difference between a list and a tuple?			
	b.	What is a Dictionaries in Python?			
	c.	What is docstring in python?			
	d.	What is the difference between '/' and '//' in Python?			
	e.	Accessing the tuple elements			
		tup= (70, 85, 90, 100, 120)			
		Print (tup [-4] and print (tup [2])			
	f.	How to concatenate two strings in python?			
	g.	What is the namespace in python?			
2.	De	fine a function. Write the difference between a function and a method	? 2+4		
3.	Dis	scuss about data types in python?	6		
4.	Wł	hy string is immutable? How we compare two strings?	4+2		
5.	write a Python function to check if a given number is prime or not?				
6.	Discuss packing & unpacking of Tuples with the help of an example. Define Nested				
	Tu	ples.	4+2		
7.	Wł	hat are Literals in python? Discuss different types of Literals in python?	2+4		
8.	What is the difference between an abstract class and an interface? Give an example?				
			6		
9.	Dis	scuss Logical and membership operator in python with the help of exam	ple. 6		