#### CENTRAL UNIVERSITY OF HARYANA School of E School of Engineering and Technology SESSION SESSIONAL - I EXAMINATION

BRANCH- CSE/CE

Subject: Printing and Packaging Materials

SEM. IVth Time: 1hr Total Marks: 20

Subject Codet BT PPT 409A		
Name:	D-BNo	

Attempt any two questions from the following.

Q.1 Explain in detail polymers, classification and types of polymers. (10 marks)

Q.2 Write in detail physical, chemical and mechanical properties of polymers.

(10 marks)

Q.3 Define the following terms: marks)

5 mark each (10

a) Write in detail types of paper.

b) Write in detail adhesives.

OR

Q.4 Discuss in detail about physical, strength and printing properties of paper marks)

(10

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## \*\* Department of CSE, SOLT, CUH Mahendergarh\*\* Mid Term (Sessional Evan 1"). March 2022

Course: B. (ivib. (CSE) 4th Sem Paper Code: BT CS 401 Subject Title Databases Management Systems
Max Marks: 20 Time Allowed: 1 hour

	Note: A thomast all que takens. Exch question curvies equal marks.	2.5x 2=5
	Write the advantages of DBMS over conventional file system.  Differentiate between instance and schema  Differentiate between two-tier and three-tier architecture.	
1	2 What is a key? What are the various types of keys available in DBMS? Explain each with example.	5
	3 Draw the ER diagram for Railway Management System. Also convert the ER diagram to tables	5
prince a de	Consider the following relation  Section/course id, see id, semester, year, building, room no, time_slot_id)  Write the query in relational algebra, tuple calculus, domain calculus and SQL for  a) Find the set of all courses taught in Fall 2009 of Spring 2010	5

### \*\* Department of CSE, SOET, CUH Mahendergarh\*\* Mid Term (Sessional Exam 2<sup>nd</sup> ), May 2022

Course: B. Tech. (CSE) 4th Sem

Paper Code: BT CS 402

Max Marks: 20

Subject Title: OOPS Time Allowed: 1 hour

Note: Attempt all questions. Each question carries equal marks.

1	Attempt any two:-	2.5x2=5
	i. Explain the importance of visibility modes in inheritance?	
	ii. What is Abstract class? Explain it with a suitable example.	
	iii. Compare inheritance and containership.	
2	Show how to overload * operator which creates the copies of the given string.	5
	Ex: "CUH" * 3 gives "CUHCUHCUH"	
3	Create 2 Classes TIME1 & TIME2 where TIME1 stores hours & minutes and TIME2 stores only	5
	minutes. How to save one time object into another using user-defined to user-defined type	
	conversion. Ex: t1 = t2 where t1 & t2 are TIME1 & TIME2 objects respectively.	
40	What is a Class template? How will this be useful in real world projects?	5

Max Marks: 10

Q1: Explain the conditional logical operator (implies) and design the truth-table for the same.

Q2: Design the Truth-table for the following expression

Q3: Explain the cardinality of the set with appropriate xample.

04: Explain the following properties of the relations:

Reflexivity 2. Symmetry

3. Ani-Symmetry

4. Transitivity

Os: prove that  $(P(A), \subseteq)$  is a poset.

#### \*\* Department of CSE, SOET, CUH Mahendergarh\*\* Mid Term (Sessional Exam 2nd), May 2022

Course: B. Tech. (CSE) 4th Sem

Paper Code: BT CS 401

Subject Title: Databases Management Systems Time Allowed: 1 hour

Max Marks: 20

Not	e: Attempt all questions. Each question carries equal marks.	2.
1	Attempt any two:-	3 (1)
	Attempt any two:-  i. With an example Justify the statement "Multivalued dependencies are consequences of liminated with example.	
	INF" Also discuss how multivalued dependencies are commuted	
	picctipte between 3NF and BCNF.	
		1500
2	1 of a complizable schedille Will two transactions says	
2	i. Give an example of a serializable seriedate with the serialization order.  which the transactions commit is different from the serialization order.  which the transactions commit is different from the serialization order.  Are	
	which the transactions commit is different from the schallzation of schedules desirable? Are ii. What is a recoverable schedule? Why is recoverable to allow non-recoverable	
	ii. What is a recoverable schedule? Why is recoverable to allow non-recoverable there any circumstances under which it would be desirable to allow non-recoverable	
	there any circumstances under which it was	
	schedules? Explain your answer.	
3	i. Explain optimistic method of concurrency control with example.  ii. When a transaction is rolled back under timestamp ordering, it is assigned a new iii. When a transaction is rolled back under timestamp?	
	tion is rolled back under timestamp of the	
	TATE OF CIMPLY REED IIS UIG UIIICOUNTED	
1	Consider the following set F of functional dependencies on the relation	
4	schema R (A, B, C, D, E, F):	
	schema $R(A, B, C, B, E, T)$	
	$A \rightarrow BCD$ , $BC \rightarrow DE$ , $B \rightarrow D$ and $D \rightarrow A$ Find the key of R? Normalize R to the highest form.	
	Find the key of R? Normanze R to the mg.	

- Q1: Define tree and its properties.
- Q2: Distinguish between Tree and Graph.
- Q3: A tree has two vertices of degree 2, one vertex of degree 3 and three vertices of degree 4. How many vertices of degree 1 does it have?
- Q4. How many ways are there to arrange the eight letters in the word CALCUTTA? 5040
- Q5. A committee of 5 is to be formed out of 6 males and 4 females. In how many ways this can be done when (1) at least 2 females are included (ii) at most 2 females are included

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# CENTRAL UNIVERSITY OF HARYANA School of Engineering and Technology SESSIONAL DEVAMINATION

BRA! Subje	NCH- CSE/CE ct: Printing and Packagi	SESSIONAL - IL EXAMINATION ing Materials		EM. IVth Time: 1hr
Subje	ct Code: BT PPT 400A	Roll No	Tot	al Marks: 20
		Roll No		
Atten	pt any two questions fro	om the following.		
Q.1 D	efine the following terms:		5 mark	each (10 marks)
a) b)	Write in detail photogra Write in detail Light ser	phic materials and it's all base materials.		
dow		OD		
03 D	of the fall	oil, properties, application and uses in Pack	kaging.	(10 marks)
4.50	efine the following terms:			each (10 marks)
(a)	Write in detail Propertie	es of ink.		
B)	Write in detail Fountain			
		OR		
Q.4 D	iscuss in detail about ingr	edients in printing inks.		(10 marks)

Q1: Define tree and its properties.

Q2: Distinguish between Tree and Graph.

Q3: A tree has two vertices of degree 2, one vertex of degree 3 and three vertices of degree 4. How many vertices of degree 1 does it have?

Q4. How many ways are there to arrange the eight letters in the word CALCUTTA? 5040

Q5. A committee of 5 is to be formed out of 6 males and 4 females. In how many ways this can be done when (I) at least 2 females are included (ii) almost 2 females are included



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# Central University of Haryana Sessional Exam-2

Subject: Environmental Science

Subject code: BT AUD 308 A

M.M. 20

Time: 60 Minutes

Note: Attempt any four questions. Each question carries equal marks. There are 05 marks for each question.

- Q. 1. Define water pollution and give its sources and impact on environment?
- Q.2. Give the impact of air pollution on human being and plants?
- Q. 3. Write short note on environment protection act?
- Q. 4. Write short note on chipko movement?
- Q. 5. Explain the various factors which influence the population growth?
- Q. 6. Write short note on green house effect?

\*\* Department of CSE, SOET, CUH Mahendergarh\*\*
Mid Term (Sessional Exam 1st ), March 2022

Course: B. Tech. (CSE) 4th Sem

Paper Code: BT CS 402

Subject Title: Object Oriented Programming using C++
Max Marks: 20
Time Allowed: 1 hour

Note: Attempt all questions. Each question carries equal marks.

1	Attempt any two:-	2.5x2=5
	i. Difference between procedural programming and OOP.	
	ii. Discuss the major difference between pass by value & pass by reference with an example.	
	iii. Difference between a class and its object. Write your answer pointwise.	
2	Explain how the effect default argument can be achieved by using function overloading with an example? Example code must be explained briefly.	5
3	Create a class TIME to store only minutes (Integer) and provide two ways to create an object that	5
	is by giving-	
	a) Hours & Minutes	
	b) only Minutes as an argument. Explain your code and idea in detail.	
4	What do you mean by shallow copy & Deep copy? How you can achieve Deep copy using copy constructor? Support your answer with an example code.	5

Central University of Haryana
Sessional Exam-1
Subject code: BT AUD 308 A M.M. 20

Subject: Environmental Science

Time: 60 Minutes

Note: Attempt any four questions. Each question carries equal marks. There are 05 marks for each question.

- 2. 1. Explain multidisciplinary nature of environmental science?
- Q. 2. Write short note on In-Situ and Ex-Situ conservation of biodiversity?
- Q.3. Define food chain and food web and give their significance?
- Q. 4. Write short note on Hot Spots of biodiversity?
- 0.5. Explain the process of ecological succession?
- Q. 6. Write short note on excess use of chemical fertilizers?