

Seventh Semester B.E. Degree Examination, June/July 2019 Computer Application in Mining

Max. Marks:100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

PART - A

		PART – A	
1	a.	Draw the flow chart of design process and computer-aided design process a geometric modeling and design review and evaluation.	nd explain (10 Marks)
	b.	List the fundamentals of CAD. Explain each in detail.	(10 Marks)
2	a.	With neat sketch, explain the Cathode Ray tube.	(05 Marks)
	b.	With sketch, explain the stroke writing.	(05 Marks)
	c.	With sketch, explain the Raster scan.	(05 Marks)
	d.	Write a note on colour and animation in CAD.	(05 Marks)
3	a.	Distinguish between wire frame and solid modeling in detail.	(10 Marks)
	b.	Write a detailed note on application of computers in mining industries.	(10 Marks)
4	a.	Write the algorithm for pit configuration.	(10 Marks)
7	b.	Write the algorithm for ore reserve estimation.	(10 Marks)
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		PART – B	
5	a.	Write the algorithm for ground vibration prediction.	(10 Marks)
5	b.	Write the algorithm for Pillar design	(10 Marks)
	0.	write the digorithm for time design	(101/1111)
6	a.	Distinguish between database approach Vs traditional file processing approach.	(08 Marks)
	b.	Draw the E–R diagram of a company.	(12 Marks)
7		D. C	(10 3/1 - 1 -)
7	a.	Define relational model. With examples explain its types. Ling upper relational operation define select and project operation.	(10 Marks)
	b.	I) Using unary relational operation, define select and project operationII) Using SELECT operation find :	
		i) The employees whose salary is more than 10,000	
		ii) Find the employees whose works for department 3 and whose salary is	more than
		50,000 using PROJECT operation.	
	1	ii.a. Find the name and salary of all employees	
		ii.b. Print the project name and their location	
		ii.c. Retrieve the name and salary of all employees working for department.	(10 Marks)
0		D. C	(10 3/6 1)
8	a.	Define normalization with examples explain 1NF and 2NF. Consider the following schema	(10 Marks)
	b.	Sailor (Sid, Sname, rating, age)	
		Reserves (Sid, boatid, day)	
		Boats (boatid, boatname, colour)	
		Using the above schema solve the quarries in SQL.	
		i) Find the names of sailor who have reserved all boats called "Interlake"	
	ii) Find the Sid's of all sailors with age over 20, who have not reserved a red boat		
		iii) Find the names of sailors, who have reserved atleast 2 boats.	(10 Marks)

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