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10MN73

Seventh Semester B.E. Degree Examination, Dec. 2013/Jan. 2014
Computer Applications in Mining

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Define computer aided design and explain the fundamental reasons for implementing a computer aided design. (05 Marks)
- b. Explain the design process in computer aided design? (05 Marks)
- c. Explain the benefits of computer aided design. (10 Marks)
- 2 a. What are the hardware components used in CAD systems. Explain briefly the graphics terminal. (10 Marks)
- b. Explain the central processing unit and secondary storage used in computer aided design? (10 Marks)
- 3 a. List the ground rules that should be considered in designing graphics software and explain constructing the geometry. (10 Marks)
- b. Explain in detail, wire frame and solid modeling. (10 Marks)
- 4 a. Explain the algorithm for SHOVEL DUMPER COMBINATION equipment selection? (10 Marks)
- b. Explain the algorithm for belt conveyor material handling equipment. (10 Marks)

PART – B

- 5 a. Explain the ground vibration prediction using blasting and give the algorithm. (10 Marks)
- b. Explain the algorithm for blast design. (10 Marks)
- 6 a. Briefly discuss the advantages of using the DBMS. (10 Marks)
- b. Explain the difference between logical and physical data independence. (04 Marks)
- c. Describe the three schema architecture. What are the problems associated with it? (06 Marks)
- 7 a. Explain the various joining operations, with examples. (10 Marks)
- b. Explain unary and set theory relational operations, with examples. (10 Marks)
- 8 a. Explain second and third normal forms, with examples. (10 Marks)
- b. How is view created and dropped? What problems are associated with updating of views? (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.