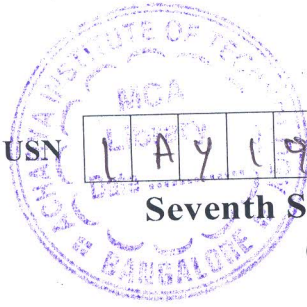


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Seventh Semester B.E. Degree Examination, Jan./Feb. 2023

Computer Application in Mining

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Discuss in detail about the fundamentals of CAD. (10 Marks)
- b. Discuss in detail about creating the manufacture database. (10 Marks)

OR

- 2 a. Explain in detail the design workstation. (15 Marks)
- b. Explain in detail the secondary storage device. (05 Marks)

Module-2

- 3 a. Summarize the software configuration of graphics. (10 Marks)
- b. Discuss in detail the constructing the geometry. (10 Marks)

OR

- 4 a. Distinguish between wire-frame and solid modeling. (10 Marks)
- b. Discuss in detail about the database structure and content. (10 Marks)

Module-3

- 5 a. Develop an algorithm for ultimate pit configuration. (10 Marks)
- b. Develop an algorithm for shovel-dumper combination. (10 Marks)

OR

- 6 a. Develop an algorithm for ore-reserve estimation. (10 Marks)
- b. Develop an algorithm for ventilation network analysis. (10 Marks)

Module-4

- 7 a. Discuss in detail the remote controlled and manless mining. (10 Marks)
- b. Discuss the following in detail:

(i) Table	(ii) Column	(iii) Tuple	(iv) Field	(v) Null value
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 (10 Marks)

OR

- 8 a. Discuss in detail about the uses of DBMS. (10 Marks)
- b. Explain File organization with its objectives. (10 Marks)

Module-5

- 9 a. Explain in detail, the artificial intelligence for mine environment. (10 Marks)
- b. Explain in detail the expert system concept. (10 Marks)

OR

- 10 a. Discuss in detail the computer application for slope stability. (10 Marks)
- b. Discuss in detail the computer application for pillar design. (10 Marks)

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.