CBCS SCHEME

USN | | | | | | | | | | |

18MN72

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.

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.

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 **(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)**

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