GBCS SCHEME

17MN52

(10 Marks)

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Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Mine Mechanization – II

Time: 3 hrs.

Max. Marks: 100

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

	1		
		Module-1	
1	0	What are the preventive methods to control inflow of water into mine?	(10 Marks)
1	a. b.	Explain constructional details and working principles of centrifugal pump.	(10 Marks)
	υ.	Explain constructional details and working principles of continugal pamp.	(TO Marks)
		OR	
2	a.	Explain reciprocating pump with well labeled neat sketch.	(10 Marks)
2	b.	Draw a flow chart of various pumps and draw a layout of underground pumping st	
	0.	Diaw a now enaited rantous paints and araw a tayout of analysis paints paints	(10 Marks)
		Module-2	
3	a.	Describe road header's construction and applications.	(10 Marks)
	b.	Explain coal plough machine with specifications and neat sketch.	(10 Marks)
		OR	
4	a.	Describe coal cutting machine with well labeled neat sketch.	(10 Marks)
	b.	Explain double drum shearer with neat sketch.	(10 Marks)
_		Module-3	(10 M 1)
5	a.	Describe the basic principles of drilling operation.	(10 Marks)
	b.	Explain constructional details of chokeshield support.	(10 Marks)
		OR	
6	0	Explain Armoured Face Conveyer (AFC) with neat sketch.	(10 Marks)
U	a. b.	Describe various types of hydraulic props with neat sketch.	(10 Marks)
	υ.	Describe various types of nyunaune props with near sketch.	(/
		Module-4	
7	a.		(10 Marks)
	b.	Explain LHD with well labeled neat sketch.	(10 Marks)
		OR	
8	a.	Explain LPDT with its selection criteria and construction.	(10 Marks)
	b.	Explain rocker shovel with neat sketch.	(10 Marks)
25		Module-5	(10 3/ 1)
9	a.	Describe various preventive maintenance for mine machinerie.	(10 Marks)
	b.	Explain various applications of computer for maintenance.	(10 Marks)

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OR

Explain scheduled maintenance for mine machineries.

Describe maintenance management system for mine machineries.

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.

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