B.E.(with Credits)-Regular-Semester 2012-Mining Engineering Sem VII **MI - Computer Applications in Mining**

P. Pa Time	ges : 2 e : Three Hour	s GUG/W/16/60 * 4 6 6 5 * Max. Marks	527 : 80
	Notes : 1. 2. 3. 4. 5.	All questions carry equal marks. Due credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary. Illustrate your answers wherever necessary with the help of neat sketches. Marks are indicated right margin.	
1.	Explain exampl	in detail how DBMS is superior to traditional file keeping systems. Giving suitable es. Also Highlight Functions of DBA.	16
		OR	
2.	What i detail t	s GPS? Discuss in detail the component parts of GPS. What is IRNSS? Discuss in he application of GPS to modern mining engineers.	16
3.	In Ms proced	Access, what is a filter? How does filter differ from query? Describe in detail the are to execute a filter.	16
		OR	
4.	What i create a	s an Auto number? Discuss its utility in DBMS. Explain in detail the procedure to a form in Ms Access.	16
5.	What i How de in whic Networ	s a neural network? What is the basic philosophy of working of typical networks? bes neural network contribute to better problem solving techniques? State conditions the it is most productive. Also comment on various areas of application of neural k.	16
		OR	
6.	Define various	artificial Intelligence (AI)? How do AI based projects work in principle. Discuss fields of application of AI in mining.	16
7.	Assum windin	e your conditions, write a program in C to determine torque during various stages of g, for a friction winder. Clearly state the assumptions made.	16
		OR	

8. For the network under consideration write a program in C to determine the equivalent 16 resistance of the mine and its equivalent orifice.



(Assume R1, R2, R3, R4 to be Rectangular airways and R5, R6, R7 as circular airways).

- **9.** a) What is Autocad? Discuss its application for mining industry.
 - b) Explain in brief the working principle / methodology of digitiser and state its applications. 8

8

OR

10. Write a program in C, to draw well labelled multiple elliptical openings in which the major 16 axis is twice the minor axis.
