MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)
Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad.

III B.Tech II Semester Supplementary Examinations, NOVEMBER-2017
SUBJECT: Mine Surveying-II

Branch: MINING

Time: 3 hours   Max. Marks: 75

PART – A

I. Answer All Questions   5x1Mark=5Marks

1. Define Curve.
2. What is the principle of terrestrial photogrammetry?
3. What is the basic principle of remote sensing?
4. What is mapping?
5. List out the different types of plans and sections.

II. Answer All Questions   10x2Marks=20Marks

1. Define Simple, Compound & Reverse curve.

2. What is the principle of stadia method?

3. Differentiate between celestial horizon and sensible horizon.

4. Define the term aerial photogrammetry.

5. What are the features of the GPS?

6. What are the purposes of correlation surveying?

7. How a horizontal angle is measured by total station?

8. Write the uses of total station.

9. What is difference between amplitude modulation and frequency modulation?

10. Explain the principle of EDM.

PART-B

Answer all questions   5x10 Marks= 50Marks

1. Explain Rankine's method of tangential angles for setting out a circular curve.

(OR)

2. A Tacheometer was set up at a station O and the following results were obtained by keeping the staff vertical. Calculate the horizontal distance between O and P and reduced level at P. Instrument constants are 100 and 0.3

Inst. stn	Staff stn	Readings	Vertical angle	Remarks
O	BM	1.875,2.150,2.425	6°0'	RL = 152.600
	P	1.650, 1.800, 1.950	-10°36'	

3. a) What is scale of vertical photograph? Explain.

   b) A section line AB appears to be 10.16cm on a photograph for which the focal length is 16cm. The corresponding line measures 2.54 cm on a map which is to a scale 1/50000. The terrain has an average elevation of 200m above msl. Calculate the flying altitude of the aircraft, above msl, when the photograph was taken.

(OR)

4. Find the most probable value of the following A = 28°24'27.4", B = 32°14'16.3", C = 51°18'8.8", A+B = 60°38'45.6" and B+C = 83°32'28.2" .

5. Write a detailed note on applications of remote sensing.

(OR)

6. What is GIS? Explain the components of GIS. In what way GIS can contribute the mining industry.

7. With the help of suitable diagram, explain fundamental measurements made by a total station.

(OR)

8. Explain how total station can replace all the traditional survey instruments.

9. Explain the various statutory plans required as per DGMS.

(OR)

10. With the help of suitable diagram, explain the procedure Tellurometer

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III B.Tech II Semester Supplementary Examinations, NOVEMBER-2017
SUBJECT: UNDERGROUND METAL MINING TECHNOLOGY

Branch: **Mining**

Time: 3 hours

Max. Marks: 75

PART-A

ANSWER ALL THE QUESTIONS   5*1=5M

1. What is the Maximum size of an underground road way?
2. Name different raising methods.
3. What is a special method of working?
4. What is mucking?
5. What are limitations of insitu leaching?

ANSWER ALL THE QUESTIONS   10*2=20M

1. Define cut off grade.
2. What is Forcing Fan?
3. What is stowing?
4. What is Shrinkage Stoping?
5. Write applicable conditions of block caving.
6. Differentiate sub level caving and block caving method.
7. Define Ventilation.
8. Why haulage is required?
9. What do you understand by dilution of ore?
10. What are the preconditions for in-situ leaching?

PART-B

ANSWER ALL THE QUESTIONS   5*10=50M

1. What is level interval? Explain how level interval is decided.

[OR]

2. How are locations of primary development works important for opening of a deposit? Show locations of developmental works by drawing a sketch.

3. Explain the cycle of operations involved in stoping method by taking any method as an example.

[OR]

4. What are advantages and disadvantages of Shrinkage stoping? What are the conditions under which Shrinkage stoping will be applicable?

5. Explain the method of block caving with a neat sketch.

[OR]

6. What is sub level caving? Explain about sub level caving with a neat sketch.

7. Explain the factors influencing selection of stoping method.

[OR]

8. A drift of 3 X 4.2 m cross section and 200 m length is driven to touch a gold deposit. Explain the different auxiliary operations involved in the drivage.

9. What is productivity? How it is going to affect cost of mining of ores?

[OR]

10. What are the disasters seen in underground metal mine? Explain them.

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III B.Tech II Semester Supplementary Examinations, NOVEMBER-2017

SUBJECT: **Human Values And Professional Ethics**

Branch: **Common to ME, ECE, IT & MINING**

Time: 3 hours

Max. Marks: 75

PART – A

I. Answer All Questions

5x1Mark=5Marks

1. Define Ethics.
2. What is 'Self Assessment'?
3. Define Trade Mark.
4. Define Value Education.
5. What do you understand by Eustress?

II. Answer All Questions

10x2Marks=20Marks

1. Compare between moral values and ethical values.
2. Honesty is the best policy-Discuss.
3. Distinguish between Untrained and Trained Memory.
4. Explain how one can assess oneself.
5. What are copy rights?
6. Explain moral dilemma with an illustration.
7. Discuss the meaning of Universal Brotherhood.
8. What are basic aspirations of Human Beings?
9. Enumerate the negative influences of stress on human health.
10. What do you know about Sympathy?

PART-B

Answer all questions

5x10 Marks= 50Marks

1. As a Citizen of the country every individual has Social Responsibility for the betterment of the society – Justify the statement with examples.

(OR)

2. Why it is important for every citizen to be socially responsible?
3. Discuss Howard Gardener's Multiple Intelligence Model.

(OR)

4. Explain the need of self discipline.
5. Discuss the Carol Gilligan's Theory Moral Development?

(OR)

6. What are customs religion professional life?
7. Value Based Education shapes the Personalities of the Individuals Unique - Justify the statement with examples.

(OR)

8. What are the contents of value education?
9. Identify the different techniques of Stress Management to lead better life?

(OR)

10. Explain how spirituality helps an individual to know the purpose his life