Total No. of Questions : 8]　　　　　　　　　　　　　　[Total No. of Printed Pages : 1

Roll No ....

MI-502 (GS)

B.E. V Semester Examination, June 2020

Grading System (GS)

Mining Survey - II

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. Describe the procedure and accuracy achievement in measurement of coal stock if stock spread over an embankment?

2. Explain the sources of Errors in theodolite traverse and suggest how these can be prevented.

3. What do you understand by "limit of errors"? Whatshould be the acceptable limits of error for:
   i) Traversing　　　　　　　　ii) Levelling
   iii) Triangulation　　　　　　iv) Miner's dial close traverse
   v) Shaft surveying

4. Sketch and describe a Vernier theodolite.

OR

Find the volume of an underground tank which is excavated from level ground to a depth of 4.0 meter. The top, which is rectangular in shape, has an area of 24m × 8m while the bottom is 10m × 1m.

5. Illustrate types of mine plans and describe the general requirements of mine plans.

6. Calculate the length of a transition curve when the rate of radial acceleration is 40 cm/s. Allowable speed on curve is 60 km/h and the radius of the circular curve is 3.00 m.

7. a) Sketch and describe planimeter and its uses.
   b) What are various symbols used in mine plans.

8. Explain the following:(Any four)
   i) Independent Quantity
   ii) Weight of an observation
   iii) Most Probable Value (MPV)
   iv) Most Probable Error
   v) Conditioned equation
   vi) Normal Equation

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