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Roll No

MI-602 (GS) B.E. VI Semester Examination, June 2020 Grading System (GS) Mining Machinery - II

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

- 1. Sketch and describe construction of belt. Also explain types of belt used in mine and care of belt.
- 2. Explain the operating principles of various types of hydraulic motors along with the possibles in the operation of the same.
- 3. a) Explain mono cable and bi cable Arial ropeway with neat sketch.
 - b) Explain different types of belt conveyor.
- 4. A conveyor is 600m long and conveys a mineral of bulk density 0.8 te/m³ up a gradient of 1 in 60 at 220 te/n. Assume that the belt width is 800mm. Calculate the suitable speed and belt strength and power of electric motor. ($\mu_e = 0.03$, $\mu_m = 0.04$).
- 5. Explain the merits and demerits of Koepe winding along with the classification of Koepe winder.
- 6. With neat diagrams describe the various systems of tensioning arrangements with belt conveyor system.

OR

- a) Describe safety devices used with conveyors.
- b) Explain the pit bottom arrangement for feeding skip.
- 7. Write a note on floating platform.

OR

Explain multirope winding in details.

- 8. Write short notes on:
 - i) Angle stations
 - ii) Unloading stations
