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C-14-MNG-606

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**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DMNG – SIXTH SEMESTER EXAMINATION**

MINERAL PROCESSING AND QUALITY CONTROL

Time : 3 Hours]

[Total Marks: 80

PART-A

3X10=30

Instructions :

1. Answer **All** questions.
2. Each question carries **Three** marks.
3. Answer should be brief and straight to the point and shall not exceed five simple sentences.

1. Define the term mineral processing.
2. Classify the comminution process.
3. State Kick's law of comminution.
4. Define the term mechanical sorting.
5. Define the terms classifiers.
6. List the types of Industrial Screens.
7. Define the term tailing and middling.
8. Write the merits and demerits of tabling.
9. List the quality parameters of coal.
10. Write the general importance of coal cleaning.

PART-B

10X5=50

Instructions :

1. Answer any **Five** questions.
2. Each question carries **ten** marks.
3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer

11. Explain the gyratory crusher with a neat sketch.
12. Explain the principle and operation of ball mill
13. Explain the working of rake classifier.
14. Describe the working principle of Dense Media Separation.
15. Explain the working principle of jigging.
16. Describe the working principle of magnetic separation.
17. Explain the proximity analysis of coal.
18. Sketch and explain the simplified flow sheet diagram of coal cleaning process.

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