

## Unit 5 - Week 4

### Course outline

### How to access the portal

### Week 1

### Week 2

### Week 3

### Week 4

Flotation-1

Flotation-2

Transportaion of solids-1

Transportaion of solids-2

Transportaion of solids-3

Quiz : Assignment 4

Assignment-4 solution

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### WEEKLY FEEDBACK

## Assignment 4

The due date for submitting this assignment has passed.  
 As per our records you have not submitted this assignment.

**Due on 2019-08-28, 23:59 IST.**

1) Which parameter is most important for higher recovery in flotation process? **1 point**

- Contact angel
- Surface roughness
- Both of the above
- None of the above

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*Contact angel*

2) Which unit is not used in flotation cell? **1 point**

- Scavenger
- Rougher
- Conditioner
- Ball mill

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*Ball mill*

3) Residence time is more in **2 points**

- Mechanical flotation cell
- Pneumatic flotation cell
- Both of the above
- None of the above

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*Pneumatic flotation cell*

4) Conditioner is used inside the **1 point**

- Mechanical flotation cell
- Pneumatic flotation cell
- Both of the above
- None of the above

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*Mechanical flotation cell*

5) For transporting large quantity for long distance, which can be used **1 point**

- Ships
- Rails
- Road
- All of the above

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*All of the above*

6) Which is not used to transport material to long distance? **1 point**

- Electric trucks
- dump body truck
- Trolleys
- None of the above

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*Trolleys*

7) Which conveyor cannot be used to transport the material vertically? **1 point**

- Belt conveyors
- Bucket conveyors
- Screw conveyors
- None of the above

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*Belt conveyors*

8) Which is transported through screw conveyor? **1 point**

- Coal
- Saw dust
- Salt
- All of the above

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*All of the above*

9) Throughput capacity of a screw conveyor is minimum when **1 point**

- Light material is transported horizontally
- Light material is transported at an inclination
- Heavy material is transported horizontally
- Heavy material is transported at an inclination

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*Heavy material is transported at an inclination*

10)As angle of repose increases, capacity of apron conveyor **2 points**

- Increases
- Decreases
- Any of the above
- Angle of repose is not considered

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*Increases*

11)In a continuous discharge elevator, buckets are mounted **1 point**

- At a specified spacing
- Close to each other
- Both are used
- Buckets are not used

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*Close to each other*

12)Shortest route can be found in **2 points**

- Road transport
- Rail transport
- Hydraulic transport
- None of the above

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*Hydraulic transport*

13)Pulverised coal is transported at 10° inclination through a screw conveyor (diameter = 0.6m), which runs at maximum rpm. Density of the solid is 1300 kg/m<sup>3</sup>. Ratio of lead of the screw and its diameter is 0.7. Compute the throughput capacity of the conveyor. **5 points**

- 153 ton/h
- 213 ton/h
- 98 ton/h
- 356 ton/h

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*153 ton/h*

14)0.5 m wide belt conveyor is used to transport 2 ton/h solid material having medium flow ability at 20° inclination. Density of the solid is 3000 kg/m<sup>3</sup>. Compute the linear speed of belt. **5 points**

- 0.26 m/s
- 0.017 m/s
- 0.0091 m/s
- 0.0063 m/s

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*0.0063 m/s*

15)Coal (specific gravity = 1.3) is to be transported pneumatically with 2m/s velocity. Viscosity of water is 0.001 kg/m-s. What should be the largest particle size of coal that can be transported? **5 points**

- 0.117 mm
- 0.623 mm
- 1.687 mm
- 2.52 mm

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
*0.117 mm*