Lesson 1: How to access the home page?

Lesson 2: How to access the course page?

Lesson 3: How to access the MCQ, MSQ and Programming assignments?

Quiz: Assessment 00

Due on 2018-01-19, 17:00 IST.

Submitted assignment

Fluidization Engineering

Assessment 00

Each question has only one correct answer and carries one mark. (1x10)

1) Sphericity of a cubic particle of side ‘a’ is

- $f_s = 1$
- $f_s = 0.75$
- $f_s = 0.67$
- $f_s = 0.806$

No, the answer is incorrect.

Score: 0

Accepted Answers:

- $f_s = 0.806$

2) Drag coefficient for laminar region

- $C_d = 1/Re$
- $C_d = 16/Re$
- $C_d = 24/Re$
- $C_d = 2/Re$

No, the answer is incorrect.

Score: 0

Accepted Answers:

- $C_d = 24/Re$
4) Median is defined as
- Size of the highest frequency
- None of these
- Size where 50% of the population is below/above
- Average size of population

No, the answer is incorrect.
Score: 0
Accepted Answers:
Size where 50% of the population is below/above

5) Ergun equation is used to calculate the pressure drop in
- Straight pipeline
- Packed tower
- Plate tower
- Cooling tower

No, the answer is incorrect.
Score: 0
Accepted Answers:
Packed tower

6) The pressure drop across the bed remains ………….even with the further increase in fluid velocity at the particular regime.
- Increase then decrease
- Decrease
- Increase
- Constant

No, the answer is incorrect.
Score: 0
Accepted Answers:
Constant

7) In stokes flow, the terminal velocity of the particle falling in fluid is 2.58 m/s, calculate the diameter of particle in mm (Fluid: density = 996.2 kg/m³, viscosity = 6.80 × 10⁻⁴ Pa.s, Solid: density= 1633 kg/m³, g = 9.81 m/s²).
- 4.98 mm
- 5.20 mm
- 7.27 mm
- 2.24 mm

No, the answer is incorrect.
Score: 0
Accepted Answers:
2.24 mm

8) Pressure drop across the distributor is

- Equal to the pressure drop across the bed
- None of these
- Greater than pressure drop across the bed
- Less than across the bed

No, the answer is incorrect.
Score: 0
Accepted Answers:
Less than across the bed

9) On comparison with Fluidized bed and packed bed, which has the highest voidage

- Packed bed
- Both are equal
- Fluidized bed
- All the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Fluidized bed

10) Fluidization occurs when drag force by the upward moving fluid is equal to the

- Volume of the bed
- Weight of the particle
- Pressure drop across bed
- Weight of the fluid

No, the answer is incorrect.
Score: 0
Accepted Answers:
Weight of the particle

You were allowed to submit this assignment only once.