Assignment no. 4

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2018-09-05, 23:59 IST.

1) A city produces 4000 tons per day of MSW this year (2018) and this goes to a landfill. The population growth rate is 1.0%; how many million tons total waste would be produced over the period from 2018 to 2020 i.e. in 2018, 2019 and 2020 (3 years)? Assume no change in GDP.

- 6.0
- 2.6
- 4.4
- 1.8

No, the answer is incorrect.
Score: 0
Accepted Answers:
4.4

2) The term double composite liner in landfills means:

- Two liners of the same material lying one on top of the other
- Two single liners of different materials lying one on top of the other
- Two single liners with a drainage layer separating them
- Two composite liners with a drainage layer separating them

No, the answer is incorrect.
Score: 0
Accepted Answers:
Two composite liners with a drainage layer separating them

3) The clay in geosynthetic clay liners (GCLs) usually comprises of:

- Kaolinite

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

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Accepted Answers:
Two composite liners with a drainage layer separating them

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Score: 0
Accepted Answers:
Kaolinite
4) Composite liners also leak but the leakage is very low in comparison to clays alone or geomembranes alone. This is because leakage occurs:

- [ ] Over very small area at very slow rate
- [ ] Over very large area at very slow rate
- [ ] Over very small area at very fast rate
- [ ] Very large area at very fast rate

No, the answer is incorrect.
Score: 0

Accepted Answers:
Over very small area at very slow rate

5) Indicate the range of thickness, in mm, of HDPE geomembranes used as liners for landfills: 1 point

- [ ] 0.25 to 0.50
- [ ] 0.50 to 0.75
- [ ] 1.5 to 2.5
- [ ] 2.5 to 5.0

No, the answer is incorrect.
Score: 0

Accepted Answers:
1.5 to 2.5

6) Which type of liners are self-healing? 1 point

- [ ] Clay liners
- [ ] Concrete
- [ ] Polymeric membranes
- [ ] Metal sheets

No, the answer is incorrect.
Score: 0

Accepted Answers:
Clay liners

7) The range of bentonite required in amended soil liners used at the base of landfills varies in the range: 1 point

- [ ] 0.25 to 0.50%
- [ ] 0.50 to 1.50%
- [ ] 5 to 15%
- [ ] 20 to 30%

No, the answer is incorrect.
Score: 0

Accepted Answers:
5 to 15%

8) Double composite liners are used in: 1 point

- [ ] Municipal waste landfills
Canals
Hazardous waste landfills
Underground tanks

No, the answer is incorrect.
Score: 0
Accepted Answers:
Hazardous waste landfills

9) The advantage of flexible wall permeameter over rigid wall permeameter is:

- Low saturation
- No side wall leakage
- Application of flexible loading
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
No side wall leakage

10) Factors which affect performance of GCLs:

- Hydration
- Shrinkage
- Internal erosion
- All of above

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of above