

Answer Key

MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL  
DEPARTMENT OF CHEMISTRY

B.Tech 1<sup>st</sup> year (Semester I)

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Session 2024-25

CHY 24110: Environmental Science (Section G)

Mini-Test

Total Marks: 10

(Unit 1: Natural Resources, Set A)

Time: 30 minutes

Roll No:

Each question carries 0.5 marks

- What is the chemical composition of Limonite?  
(a)  $K_3[Fe(CN)_6]$  (b)  $CaMg(CO_3)_2$  ☒ (c)  $FeO(OH).nH_2O$  (d) Aluminosilicate
- Hydraulic mining is one type of  
(a) Sub-surface mining ☒ (b) Placer mining (c) Auger mining (d) In-situ leaching
- Which of the following disease is caused by deficiency of Iron?  
(a) Goitre (b) Blindness ☒ (c) Anemia (d) Cancer
- Which type of fertilizer is responsible for "Blue Baby Syndrome"?  
☒ (a) Nitrates (b) Phosphates (c) Potassium (d) Sodium
- How removal of forest is associated with landslide?  
(a) increase of moisture (b) pollution of ground water  
(c) both a and b ☒ (d) loosening of soil
- Which of the following can be good aquifer?  
(a) sand (b) gravel ☒ (c) both a and b (d) clay
- If I add  $CaCO_3$  in the soil, how the pH of the soil changes?  
☒ (a) increases (b) remains same (c) decreases (d) becomes 0
- Which of the following diseases are solely associated with mining?  
(a) Asthma (b) Cancer ☒ (c) Asbestosis (d) Dengue
- Where is the Tehri Dam situated?  
☒ (a) Uttarakhand (b) Rajasthan (c) Assam (d) Himachal Pradesh
- Which of the following is not a constituent of biogas?  
(a)  $CH_4$  (b)  $H_2S$  ☒ (c) Xe (d)  $CO_2$
- Which of the following has high Sulphur content?  
(a) peat (b) lignite (c) anthracite ☒ (d) bituminous

12. Which of the following compound is present in reasonable amount in Petrol?

- (a) Methane      ☒ (b) Octane      (c) Butane      (d) CO<sub>2</sub>

13. What is Synthetic Natural Gas?

- ☒ (a) CO+H<sub>2</sub>      (b) CO<sub>2</sub>+H<sub>2</sub>      (c) CH<sub>4</sub>+H<sub>2</sub>      (d) CO<sub>2</sub>+ CH<sub>4</sub>

14. Shifting cultivation is prominent in

- (a) Rajasthan      (b) Kerala      ☒ (c) North-East India      (d) West Bengal

15. What is the importance of high surface tension of water in nature?

- ☒ (a) rise of water through trunks of trees  
(b) formation of cloud  
(c) survival of plants and animals inside waterbodies  
(d) all of the above

16. Which of the following leads to deforestation of vast land?

- (a) Sub-surface mining      ☒ (b) Open pit mining      (c) In-situ leaching      (d) Dredging

17. Which of the following is not the effect of deforestation?

- (a) loss of biodiversity      (b) increased drought      (c) increased flood      ☒ (d) acid mine drainage

18. What will happen if edible oil remains in our body as body fluid instead of water?

- (a) Chances of freezing of body fluid even in earth's average temperature (15°C).  
(b) High shortage of foods.  
(c) High chance of heart attack  
☒ (d) Both a and c

19. Which of the following is not a fertilizer related problem?

- (a) micronutrient imbalance      (b) nitrate pollution      ☒ (c) asbestosis      (d) eutrophication

20. Which of the following place is suitable for hydropower?

- ☒ (a) Himalayas      (b) Coromandel coast      (c) Thar desert      (d) Kolkata city