

HCS PRELIMINARY EXAM 2016
GENERAL STUDIES PAPER I
MOST EXPECTED QUESTIONS
(ENVIRONMENTAL ISSUES)

1. According to Environment (Protection) Act, 1986 permissible limits of oil and grease in the effluents to be discharged into public sewers is

- (A) 10 mg/l
- (B) 20 mg/l
- (C) 25 mg/l
- (D) 30 mg/l

2. Match List – I with List – II and choose the correct answer from the given codes :

List – I (Ecosystem types)

List – II (Characteristics)

- a. Coral reefs i. Still water
- b. Deltas ii. Saline water
- c. Wetlands iii. Brackish water
- d. Rivers iv. Fresh water

Codes :

a b c d

- (A) i ii iii iv
- (B) ii iii i iv
- (C) ii i iv iii
- (D) iii iv i ii

3. Which of the following is NOT a correct statement ?

- (A) Tropics are the warmest and wettest regions.
- (B) Subtropical high pressure zones create dry zones at about 30° N and S.
- (C) Temperature and precipitation are lowest at the poles.
- (D) Temperature is lowest and precipitation is highest at the poles.

4. Which one of the following organisms is a free living nitrogen

fixer ?

- (A) Rhizobium
- (B) Azotobacter
- (C) Frankia
- (D) Dorylimes

5. Which one of the following has highest bioconcentration factor (BCF) ?

- (A) DDT
- (B) DDE
- (C) Chlordane
- (D) Heptachlor

6. The presence of ammonia in groundwater may indicate a nearby

- (A) coal mine
- (B) municipal solid waste dumping site
- (C) thermal power plant
- (D) granite quarry

7. In Bhopal gas tragedy, the quantity of Methyl Isocyanate leaked into the atmosphere was around

- (A) ~ 180 tonnes
- (B) ~ 60 tonnes
- (C) ~ 112 tonnes
- (D) ~ 40 tonnes

8. What is the sequence of arrival of seismic waves at a recording station ?

- (A) P-wave, S-wave, L-wave, R-wave.
- (B) S-wave, P-wave, R-wave, L-wave.
- (C) R-wave, L-wave, P-wave, S-wave.
- (D) S-wave, L-wave, R-wave, P-wave.

9. In which country dry steam deposits have been used as such for electricity generation ?

- (A) Italy
- (B) Iceland

- (C) Austria
(D) New Zealand

10.The most toxic form of mercury in water is

- (A) Hg²⁺
(B) Hg
(C) H₃C – Hg⁺
(D) Hg⁰

11.Hardness of water is due to the presence of

- (A) Calcium and Magnesium ions
(B) Strontium and Nitrate ions
(C) Sodium and Chloride ions
(D) Potassium and Nitrite ions

12. Principal constituents of atmospheric brown clouds are

- I. Soot
II. Soil dust
III. Fly ash
IV. Sulphates and nitrates

Identify the correct code :

- (A) I & II only
(B) I & IV only
(C) II, III and IV only
(D) I, II, III and IV

13. The famous 'London Smog' was observed in the year

- (A) 1750
(B) 1952
(C) 1972
(D) 2000

14. The permissible limit of day time industrial noise as recommended by WHO is

- (A) 80 dB
(B) 75 dB
(C) 90 dB
(D) 76 dB

15.Percentage of carbon in a typical

municipal solid waste ranges from

- (A) 50 – 60 %
(B) 40 – 50 %
(C) 30 – 40 %
(D) 20 – 30 %

16.Hazardous Waste Management and Handling Rule was enacted in the year

- (A) 1989
(B) 1979
(C) 1969
(D) 1999

17.Match the List – I with List – II and choose the correct answer from the given codes :

List – I (Event) List – II (Date)

- a. Earth Day i. 5th June
b. World Environment Day
ii. 3 October
c. Ozone Day iii. 22 nd
April
d. World Nature Day
iv. 16th September

Codes :

- a b c d
(A) i ii iv iii
(B) iii i iv ii
(C) ii i iii iv
(D) iv iii ii i

18. CBD stands for

- (A) Convention on Biological Diversity
(B) Conservation Biodiversity Development
(C) Conservation Association for Biodiversity and Management
(D) Cumulative Plan for Biological Diversity

19.Chemosynthesis involves CO₂ fixation using energy derived from

(A) Sunlight

(B) Infrared radiation (C) UV-radiation

(D) Inorganic and Organic compounds

20. Nudation is generally caused by

(A) migration of species

(B) climate change

(C) invasion of foreign species

(D) modification of habitat

21. Match the List – I with List – II and choose the correct answer from the given codes :

List – I (Lakes)

a. Oligotrophic lakes

b. Dystrophic lakes

c. Eutrophic lakes

d. Volcanic lakes

List – II

(Characteristics)

i. More nutrient concentration

ii. Magmatic water

iii. Low nutrient concentration

iv. Low pH and high humic acid conditions

Codes :

a b c d

(A) i ii iii iv

(B) ii i iv iii

(C) iii iv i ii

(D) iv iii ii i

22. Which of the following is an endangered bird species ?

(A) Kashmir stag

(B) Great Indian Bustard

(C) Hangul

(D) Black buck

23. In India, Crocodile breeding project started for the first time in

(A) Tamil Nadu

(B) West Bengal

(C) Odisha

(D) Goa

24. Which one of the following is used as microbial indicator of water contamination ?

(A) Coliform bacteria

(B) Giardia

(C) Cryptosporidium

(D) Tobacco mosaic virus

25. Size range of atmospheric aerosols is

(A) 5nm – 100µm

(B) 100µm – 150µm

(C) 150µm – 200µm

(D) 0.01nm – 5nm

26. Maximum energy content (KJ/kg) in a typical municipal solid waste is found in

(A) Plastic

(B) Leather

(C) Wood

(D) Textile

27. Match List – I with List – II and choose the correct answer from the codes given below:

List – I (Environment Related Treaties)

List – II

(Year)

a. CITES i. 1989

b. Basel ii. 1973

c. UNFCCC iii. 1997

d. Kyoto Protocol iv. 1992

Codes :

a b c d

(A) iii ii i iv

(B) iv iii ii i

(C) i iv iii ii

(D) ii i iv iii

28.Match List – I with List – II and choose the correct answer from the codes given below:

**List – I
(GHGs)**

**List – II
(Atmospheric
Lifetime) (Yrs)**

- a. CFC-12 i. 12
b. Methane ii. 50-200
c. CO₂
d. N₂
iii. 114
O iv. 100

Codes :

- a b c d
(A) iii iv i ii
(B) ii iii iv i
(C) iv i ii iii
(D) i ii iii iv

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because he knows you will catch him (THAT IS TRUST).

8) MANAV MALIK (BAHADURGARH)etc

**Once, all villagers decided to pray for RAIN, on the day of prayer all people gathered and only one boy came with an umbrella (THAT IS FAITH).

***Every night we go to bed without any of assurance of being alive the next morning but still we set the alarms in our watch to wake up (THAT IS HOPE).

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