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# ENVIRONMENTAL SCIENCE Paper – II

Note: This paper contains fifty (50) objective type questions. Each question carries two (2) marks. All questions are compulsory.

**1.** Which of the following pairs is not correctly matched?

-	Plume Behaviour		Atmospheric Condition
(A) L	_ooping	(i)	Stable
(B) F	Fumigation	(ii)	Inversion above and lapse below the stack
(C) 1	Frapping	(iii)	Inversion above and below the stack with lapse in between
(D) F	anning	(iv)	Inversion

2. In soil and sediments, the relative importance of cations occupying exchange site is generally

(A) 
$$Ca^{2+} > Mg^{2+} > Na^+ > K^+$$

(B) 
$$Ca^{2+} > Mg^{2+} > K^+ > Na^+$$

(C) 
$$Na^+ > K^+ > Mg^{2+} > Ca^{2+}$$

(D) 
$$Ca^{2+} > K^+ > Na^+ > Mg^{2+}$$

- **3.** The large depression formed by the collapse of volcanic vent occupied by crater lake, is known as
  - (A) Parasitic cone
  - (B) Caledra
  - (C) Lava dome
  - (D) Lahar
- **4.** 49 moles of oxygen is supplied with 10 moles of ethane, what is the percentage excess of oxygen?
  - (A) 20%
  - (B) 40%
  - (C) 50%
  - (D) 70%
- **5.** Which one is the pre-dominant volatile gas during volcanic eruption ?
  - (A) H<sub>2</sub>
  - (B) CO
  - $(C) S_2$
  - (D)  $N_2$

Paper II (2) K-2917





- **6.** Which type of seismic wave travels fastest, and which type will not travel through a fluid?
  - (A) P wave/ S wave
  - (B) S wave/ reflected wave
  - (C) P wave/ surface wave
  - (D) Surface wave/ S wave
- 7. The daily cover of MSW landfills consists of which one of the following?
  - (A) Geomembrane
  - (B) Geocomposite
  - (C) Geo-textile
  - (D) Compacted soil
- **8.** Consider the following statements
  - 1. Theorems of probability is addition and multiplication theorem
  - 2. Theorems of probability is addition only
  - 3. The probability of an event is often defined as a number between 1 and zero.

Which of the above statements is/are correct?

- (A) 1 and 3
- (B) only 1
- (C) only 2
- (D) 1 and 2

- **9.** In aerobic conditions, the microbial decomposition of organic matter results information of which one of the following?
  - (A) Stable and objectionable end products
  - (B) Stable and unobjectionable end products
  - (C) Unstable and objectionable end products
  - (D) Unstable and acceptable end products
- **10.** THUMBA, near Thiruvananthpurum, is associated with
  - (A) Space application centre
  - (B) Satellite centre
  - (C) Liquid propulsion system centre
  - (D) Rocket Launching station
- Solid waste landfills may cause troubles during
  - (A) Peak summers
  - (B) Peak winters
  - (C) Peak summer and winter
  - (D) Peak monsoons

K-2917 (3) Paper II



- 12. In which Sal forest found in India
  - (A) Upper Himalayas
  - (B) Gangetic plains
  - (C) Sunderbans
  - (D) Western Ghats
- 13. Match List I (Drinking water quality parameters) with List II (Concentration Permissible limit as per Indian standard) and select the correct answer using the codes given below

List - I List - II

# (Parameters) (Concentrations)

- a. Residual i. 0.3 mg/l
  Chlorine (Cl<sub>2</sub>)
- b. Chloride (Cl<sup>-</sup>) ii. < 300 mg/l
- c. Nitrate (NO<sub>3</sub><sup>-</sup>) iii. 250 mg/l
- d. Hardness iv. 45 mg/l as CaCO<sub>3</sub>

#### Codes:

	а	b	С	d
(A)	i	iv	iii	ii
(B)	i	iii	iv	ii
(C)	iv	ii	iii	i
(D)	ii	iv	i	iii

- 14. A new greenhouse gas, which is about 20,000 more powerful than CO<sub>2</sub> in trapping heat radiated by earth surface is
  - (A) SF CF<sub>5</sub>
  - (B) SF<sub>5</sub> CF
  - (C) SF<sub>5</sub> CF<sub>3</sub>
  - (D) SF<sub>3</sub> CF<sub>5</sub>
- 15. Identify the correct sequence of stages of obtaining Environmental clearance for new projects.
  - (A) Appraisal, Screening, Scoping,Public Consultation
  - (B) Screening, Scoping, PublicConsultation, Appraisal
  - (C) Screening, Public Consultation,Scoping, Appraisal
  - (D) Screening, Appraisal, Scoping,Public Consultation,



- 16. Among BOD and COD, because of which is used as an index of sewage concentration
  - (A) BOD represents both

    carbonaceous and nitrogenous

    organic matter, while COD may

    indicates carbonaceous matter

    only
  - (B) BOD relates specifically to perform and gives more reliable result
  - (C) BOD relates specifically to putrescible organic matter which is the most objectionable sewage constituent
  - (D) COD relates to the impurities

    which can only removed by

    chemical treatment which is

    expensive

- 17. The type of projects which among the following will require public consultation under EIA process to be carried out under Indian EIA Notification 2006, is
  - (A) Projects concerning National defence and security
  - (B) Building/ construction/Areadevelopment/ township projects
  - (C) Expansion of roads and highways which donot involve any further land acquisition
  - (D) Nuclear power projects
- 18. SONOX-out technology for removal of oxides of nitrogen and oxides of sulphur form flue gas in acid rain is
  - (A) Combined plasma scrubbing
  - (B) Desulfurization and denitrification
  - (C) Addition of lime stone (CaCO<sub>3</sub>) and urea
  - (D) Liquid phase dehumidification at cryogenic temperature and low pressure

K-2917 Paper II



- **19.** Which of the following statements related to C/N (Carbon/Nitrogen) ratio is not correct?
  - (A) Lower initial C/N ratio leads to loss of nitrogen and slow down the rate of decomposition
  - (B) Higher initial C/N ratio leads cell destruction to obtain nutrition
  - (C) Higher initial C/N ratio leads to lower conservation of Nitrogen in the finished compost
  - (D) An initial C/N ratio of 30 to 50 is optimal for composting
- **20.** The following reactions take place during anaerobic digestion of organics
  - 1. Methane production
  - 2. Alkaline fermentation
  - 3. Acid fermentation
  - 4. Acid regression

The correct sequence of these reaction is

2

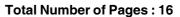
- (A) 3, 4, 1,
- (B) 4, 3, 2,
- (C) 3, 4, 2, 1
- (D) 4, 3 1, 2

- **21.** The reaction  $O_2 \rightarrow 2O$ , which occurs in the stratosphere, does not occur in the troposphere to produce ozone due to
  - (A) Lower tropospheric temperature
  - (B) Absence of  $\lambda$  < 242 nm radiation
  - (C) High air pressure
  - (D) High gas molecule concentrations
- **22.** Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R).
  - Assertion (A): The photic zone
    extends to a maximum
    depth of 200 meters
    (656 feet) below the
    surface of water.
  - Reason (R): This is where not enough sunlight penetrates for photosynthesis process occur.

Choose the correct answer from the codes:

- (A) Both (A) and (R) are true and (R) is the correct explanation
- (B) Both (A) and (R) are true and (R) is not the correct explanation
- (C) (A) is true, but (R) is false
- (D) (A) is false, but (R) is true

Paper II (6) K-2917





23. Match the List – I and List – II. Choose the correct answer from the codes given below:

### List - I List - II

- a. Autotrophs
  i. Distinct
  communities of
  a particular
  climatic
  condition
- b. Food chainii. Relationship of all the organisms in a given habitat
- c. Food web iii. Photosynthesis
- d. Biomes iv. Producers,
  consumers and
  decomposers in
  a given niche

# Codes:

	а	b	С	d
(A)	ii	i	iii	iv
(B)	iii	iv	ii	i
(C)	iv	iii	ii	i
(D)	i	iii	ii	iv

- **24.** Reliable, quantitative and verifiable data used in Environmental impact assessment study are called
  - (A) Hard data
  - (B) Soft data
  - (C) Continuous data
  - (D) Discrete data
- **25.** Match the List I and List II. Choose the correct answer from the codes given below:

List – I	List – II
a. Square matrix	<ul><li>i. All its elements below principal diagonal are zero</li></ul>
b. Sub-matrix	ii. All the diagonal elements are equal
c. Scalar matrix	iii. Obtained by deleting some rows and columns
d. Triangular matrices	iv. Number of rows is equal to the number of columns

#### Codes:

	а	b	С	d
(A)	iv	iii	i	ii
(B)	iii	iv	ii	i
(C)	ii	iii	iv	i
(D)	iv	iii	ii	i

K-2917 (7) Paper II



- **26.** Chlorofluorocarbons or CFCs are also known as
  - (A) Ion
  - (B) Anion
  - (C) Chrom ion
  - (D) Freon
- **27.** Match the List I and List II. Choose the correct answer from the codes given below:

List - I List - II

- a. Poissoni. AbrahamdistributionDe-moivre
- b. t-distribution ii. Simeon Denis
  Poisson
- c. Normal iii. Jacob Bernoulli distribution
- d. Binomial iv. Critical value distribution

C

iii

d

Codes:

а

(C) ii

(A) i ii iii iv (B) ii iii iv i

b

(D) ii iv i iii

İν

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

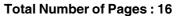
List – I

(Nature of (Unit solids) Operation)

- a. Colloidal solids i. ReverseOsmosis
- b. Settlable ii. Coagulation solids
- c. Dissolved iii. Settling tank solids
- d. Volatile solids iv. Digestion

Codes:

а b C d (A) ii iii i iν (B) ii iii iν (C) iii ii İ۷ i i (D) iii İν ii





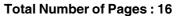
- **29.** Cost-Benefit Analysis seeks to analyse cost and benefits of a project in terms of
  - (A) Environmental and monetary gain
  - (B) Social gain
  - (C) Social and environmental costs and gains
  - (D) Monetary gains
- **30.** Hydrocarbons are the most stable compounds against radiation. Which of the following types of hydrocarbons is most stable?
  - (A) Saturated
  - (B) Unsaturated
  - (C) Aromatic
  - (D) All are equally stable
- **31.** Under EIA Notification, 2006 which of the following category of projects donot require EIA?
  - (A) Category A
  - (B) Category A1
  - (C) Category B1
  - (D) Category B2

- **32.** Consider the following statements :
  - The quality of wastewater is determined on the basis of DO
  - 2. The BOD Test is based on DO
  - Determination of DO helps in controlling corrosion

Which of the above statements are correct?

- (A) 1, 2 and 3
- (B) 1 and 2 only
- (C) 1 and 3 only
- (D) 2 and 3 only
- **33.** Which one of the following Acts/Rules has a provision for 'No Right to appeal"?
  - (A) Environment (Protection) Act, 1986
  - (B) Manufacture, Storage and Import of Hazardous Chemical Rules, 1989
  - (C) Hazardous Waste (Management and Handling) Rules, 1989
  - (D) Environment (Protection) Rules, 1992

K-2917 (9) Paper II





- **34.** Nobel Peace Prize for 2007 was awarded to the climate change campaigner
  - (A) Barack Obama
  - (B) Al Gore
  - (C) Rajendra Sinh
  - (D) Sundarlal Bahuguna
- **35.** The net primary productivity of an ecosystem is
  - (A) The productivity at top consumer level minus respiration at all levels
  - (B) The gross primary productivity minus plant respiration
  - (C) The primary productivity at herbivore level
  - (D) The primary productivity at consumer level

- **36.** Consider the following statements about waste stabilization ponds
  - The pond has a symbiotic behaviour of waste stabilization through algae on one hand and bacteria on the other
  - The oxygen in ponds is provided by algae through photosynthesis
  - The detention period or Residence time for waste stabilization pond is of the order of two to three days
  - 4. The bacteria which develop in the pond, are aerobic bacteria

Which of these statement are correct?

- (A) 1, 2 and 3
- (B) 1, 3 and 4
- (C) 1 and 2
- (D) 2 and 4

Paper II (10) K-2917





- **37.** Arrange the following countries in descending order of their Carbon emission.
  - i. India
  - ii. Bhutan
  - iii. USA
  - iv. China

#### Codes:

- (A) i iii iv ii
- (B) iv i iii ii
- (C) iii i ii iv
- (D) iii iv i ii
- **38.** Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R).
  - **Assertion (A):** Construction of dam leads to damage of ecosystem.

Reason (R): The area gets

inundated with large

volume of water.

Choose the correct answer from the codes:

- (A) Both (A) and (R) are true with (R) being the correct explanation
- (B) Both (A) and (R) are true, but (R) is not the correct explanation
- (C) (A) is true, but (R) is wrong
- (D) Both (A) and (R) are wrong

39. Match the List – I and List – II. Choose the correct answer from the codes given below:

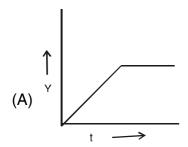
List – I	List – II
(Pollutants)	(Sources)
a. Acid water	i. Volcanoes
b. $SO_2$	ii. Automobiles
c. CO	iii. Thermal Power
	Station
d. Fly ash	iv. Mining

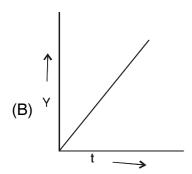
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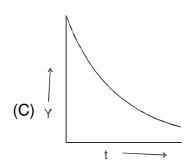
	а	b	С	d
(A)	iv	i	ii	iii
(B)	iv	i	iii	ii
(C)	i	iv	iii	ii
(D)	i	iv	ii	iii

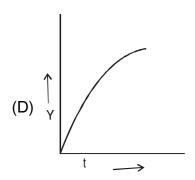


**40.** The graphical representation of BOD(Y) exerted against time in days (t) is given by









**41.** Which of the following statement is/are true?

I. A community and its habitat are independent

II. A community and its habitat are interdependent

III. A community and its habitat interact mutually

#### Codes:

(A) Only I is correct

(B) Only II is correct

(C) II and III are correct

(D) Only III is correct

**42.** What will be the resultant decibel level when two sources make noise of equal decibels ?

a. Decibel level will be same

b. Decibel level will increase by 3 decibels

c. Decibel level will decrease by 3 decibels

d. Decibel level will be equal to the sum of decibels of the two sources

#### Codes:

(A) c

(B) b

(C) a

(D) d



- **43.** Modern coal based thermal power stations pollute the atmosphere by adding
  - (A) NOx and SO<sub>2</sub>
  - (B) NOx, SPM and CO
  - (C) NOx, SO<sub>2</sub> and SPM
  - (D) NOx, SO<sub>2</sub>, SPM and CO
- **44.** Secondary wastewater treatment particularly removes of
  - (A) Suspended organic matter
  - (B) Dissolved and colloidal organic matter
  - (C) Harmful bacteria and suspended organic matter
  - (D) Fats and grease
- **45.** NO<sub>2</sub> undergoes photodissociation by absorbing visible and UV light from the sun, according to the reaction

$$NO_2 + h_V \rightarrow NO + O$$

Here wavelength of light is generally

- (A) 450 nm
- (B) > 400 nm
- (C) < 600 nm
- (D) > 800 nm

**46.** Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A): In recent years, there has been a progressive increase in the percentage of solar ultraviolet rays reaching the Earth's surface.

Reason (R) : In the past few years,
there has been a
progressive increase
in the percentage of
carbon dioxide in the
Earth's atmosphere.

Choose the correct answer from the codes:

- (A) Both (A) and (R) are true and (R) isthe correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

K-2917 (13) Paper II



**47.** Match the List – I and List – II. Choose the correct answer from the codes given below:

List – I List – II

- a. Methanoglobinemia i. Volatile solids
- b. Muffle furnace ii. Suspended particulate matter
- c. High volume iii. Nitrate sampler
- d. Septic tank iv. Anaerobic bacteria

#### Codes:

b d а C (A) iii i ii İν (B) i ii iii iν (C) iii ii iν (D) iv ii iii

- 48. Ecological Footprint (EF) is
  - (A) Chemical load on ecosystem
  - (B) Biological load on ecosystem
  - (C) Physical load on ecosystem
  - (D) Load imposed by a given population on nature

**49.** Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R):

**Assertion (A)**: Warming of the Earth's climate is the effect of Green House Gases.

Reason (R) : Concentration of CO<sub>2</sub> and some other Green House Gases increased.

Choose the correct answer from the codes:

- (A) Both (A) and (R) are true and (R) is the correct explanation
- (B) Both (A) and (R) are true but (R) is not the correct explanation
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true
- **50.** Arrange the following gases in increasing order as per their percentage in atmosphere.
  - i. Nitrogen
  - ii. Oxygen
  - iii. Argon
  - iv. Carbon dioxide

## Codes:

(D) ii

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

iii

i

iν



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ಚಿತ್ತು ಬರಹಕ್ಕಾಗಿ ಸ್ಥಳ Space for Rough Work