

(ECO/ENV/CA)

1. Which of the following are the secondary pollutants?

1. Sulphur-dioxide (SO_2)
2. Ozone
3. Nitrogen oxide (NO_x)
4. Peroxyacetyl nitrate (PANs)

Select the correct answer using the code given below:

- (a) 1 and 2 only (b) 1 and 3 only (c) **2 and 4 only** (d) 1, 2 and 4 only

2. Which of the following chemicals are primarily present in the fly ash?

1. Silicon dioxide (SiO_2)
2. Calcium oxide (CaO)
3. Aluminium oxide (Al_2O_3)

Select the correct answer using the codes given below:

- (a) 1 and 2 only (b) 1 and 3 only (c) 2 and 3 only (d) **1, 2 and 3**

3. Which of the following statements regarding the Biological Oxygen Demand (BOD) is correct?

- (a) It is the measure of oxygen equivalent of the requirement of oxidation of total organic matter present in water.
 (b) The higher value of BOD indicates the presence of higher amount of Dissolved Oxygen in water.

(c) **BOD is available to the biodegradable materials only.**

(d) All of the above statements are correct.

4. Consider the following:

1. Bioremediation techniques are destruction techniques to stimulate the growth of microorganisms, using the contaminants as a food and energy source.
2. Bio augmentation is the process in which microorganisms are imported to a contaminated site to enhance the degradation process.
3. Bioleaching is the extraction of metals from their ores through the use of living organisms.

Which of the above statements are correct?

- (a) 1 and 2 only (b) 1 and 3 only (c) 2 and 3 only (d) **1, 2 and 3**

5. Which of the following prerequisites with regard to pollutants are necessary for bio magnification in the food web?

1. Short Lived
2. Solubility in fats
3. Mobility
4. Solubility in water

Select the correct answer using the code given below:

- (a) 2 and 4 only (b) 1 and 3 only (c) **2 and 3 only** (d) 1, 2, 3 and 4

6. Which of the following are the extra-terrestrial causes of climate change?

1. Fluctuation in the amount of energy irradiated from the photosphere.
2. Increase or decrease the number of sunspots.
3. Variations in the earth's orbital characteristics around the sun.
4. Changes in the earth's axial tilt.

Select the correct answer using the code given below:

- (a) 1 and 2 only (b) 3 and 4 only (c) 1, 2 and 4 only (d) **1, 2, 3 and 4**

7. Which of the following can be the consequences of Marine heat waves?

1. Coral bleaching
2. Sea grass destruction
3. Loss of kelp forest
4. De-oxygenation of Ocean
5. Acidification of Ocean

Select the correct answer using the codes given below:

- (a) 1, 2, and 4 only (b) 1, 3, 4, and 5 only (c) 2, 3, and 5 only (d) **1, 2, 3, 4 and 5**

8. The term "internal carbon price" relates to:

- (a) A system where emitters can trade emission units to meet their emission targets.
 (b) A price on carbon by defining an explicit tax rate on GHG emissions or more commonly on

the carbon content of fossil fuels, i.e. a price per tCO₂e.

(c) **A tool an organization uses internally to guide its decision-making process in relation to climate change impacts, risks and opportunities.**

(d) A funding approach where payments are made after pre-defined outputs or outcomes related to managing climate change.

9. Select the most appropriate definition of 'Global Dimming' a phenomenon often seen in news:

(a) It refers to the collective efforts of G20 countries to reduce the global carbon footprint.

(b) It is an initiative of the UNEP aimed at reducing the urban heat island effect by propagating dim colours for high rises in urban areas.

(c) **It is a drop in the amount of average solar energy reaching the earth's surface due to a shield created by suspended air particulate materials.**

(d) An initiative of the UNFCCC, to reduce global burning of fossil fuels and shift to cleaner source of energy

10. Environmental Impact Assessment in India gets its statutory backing from:

(a) **Environmental (Protection) Act, 1986**

(b) Forest Conservation Act, 1980

(c) Wildlife Protection Act, 1972

(d) Air (Prevention and Control of Pollution) Act, 1981

11. Which of the following situations will lead to an increase in aggregate demand in an economy?

1. Lower interest rates

2. Increase in household wealth

3. Expectation of falling inflation

4. Rise in value of Indian Rupee

Select the correct answer using the code given below;

(a) **1 and 2 only**

(b) 2 and 3 only

(c) 3 and 4 only

(d) 1 and 4 only

12. Match the following: Type of Deficit: Impacts

1. Revenue Deficit: current income and expenditure

2. Fiscal Deficit: cumulative of all the borrowings

3. Primary Deficit fiscal deficit: without interest liabilities

Which of the pairs given above is/are correctly matched?

(a) No pair

(b) Only one pair

(c) Only two pairs

(d) **All the three pairs**

13. In the context of Indian economy, which of the following measures is regarded as the National Income?

(a) Gross Domestic Product at market prices

(b) **Net National Product at factor cost**

(c) Gross National Product at factor cost

(d) Net National Product at market prices

14. According to the Harrod - Domar growth model, the GDP is ____

(a) **Inversely proportional to the capital output ratio**

(b) Directly proportional to the capital output ratio

(c) Independent of the capital-output ratio

(d) Inversely proportional to the Savings ratio

15. Which of the following are the fiscal policy measures taken by the government to control inflation?

1. Reduction in public expenditure and public borrowing

2. Increasing taxes on private businesses

3. Increasing interest rates in the economy

Select the correct answer using the code given below

(a) **1 and 2 only**

(b) 2 and 3 only

(c) 1 and 3 only

(d) 1,2 and 3

16. Which of the following is/are the cause of Demand-Pull inflation?

1. Increased government spending

2. Higher prices of inputs

3. Lower interest rate

Select the correct answer using the code given below

- (a) **1 and 3 only**
- (b) 2 and 3 only
- (c) 2 only
- (d) 1,2 and 3

17. Consider the following statements regarding India Brand Equity Foundation (IBEF)

1. It is an investment promotion agency to create awareness about themade in India label in overseas markets

2. IBEF is an initiative of the Ministry of Commerce and industry.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) **Both 1 and 2**
- (d) Neither 1 nor 2

18. Under which of the following circumstances may 'capital gains' arise?

- 1. When there is an increase in the sales of a product
- 2. When there is a natural increase in the value of the property owned.
- 3. When you purchase a painting and there is a growth in its value due to increase in its popularity.

Select the correct answer using the codes given below:

- a) 1 only
- b) 2 and 3 only**
- c) 2 only
- d) 1, 2 and 3

19. The retail selling price of the non-subsidised LPG cylinder for the Indian customer is determined mainly by which of the following?

- 1. Exchange rate of Indian rupee against dollar
- 2. Transportation cost
- 3. Direct Benefit Transfer provided to consumers
- 4. Marketing Costs
- 5. Price of crude oil in the international market

Select the correct answer using the code given below:

- a) 1, 2, 3 and 4 only
- b) 2 and 5 only
- c) 1, 3 and 5 only
- d) 1, 2, 4 and 5 only**

20. With reference to the Nirmal Jal Prayas initiative, consider the following statements:

- 1. It aims to remove the financial barriers in accessing the safe water and sanitation at home.
- 2. It is an initiative of the National Real Estate Development Council-Women's Wing.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- (c) **Both 1 and 2**
- d) Neither 1 nor 2

21. Recently, a new genus of wasp "Soligaecarinata" has been named after the Soliga community of which of the following states?

- (a) Tamil Nadu
- (b) Kerala
- (c) **Karnataka**
- (d) Telengana

22. The term 'Grey Zone Operations' is associated with

- a) Early warning system of tropical storms
- b) Strategic intervention to prevent malnutrition
- c) Non-Proliferation of Nuclear Weapons

d) Cyber Warfare

23. With which of the following country India regularly held joint exercises- Varuna(Navy),Garuda(air force), and Shakti(army)?

- a) USA
- b) Phillipines
- (c) **France**
- d) Indonesia

24. In India, the interest rate on savings accounts in all the commercial banks is fixed by

- a) Union Ministry of Finance
- b) Union Finance Commission
- c) Indian Bank's Association
- d) None**

25. The service area Approach was implemented under the purview of

- a) Integrated Rural Development Programme

b) Lead Bank Scheme

- c) Mahatma Gandhi National Rural Employment Scheme
- d) National Skill Development Mission