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1. What is the primary challenge faced by nations in conserving their biological wealth? (IB ACIO 16th Sept. 2025 Shift 2)
- a) Insufficient funding
 - b) Limited public awareness
 - c) Conflict between development and conservation
 - d) Lack of scientific knowledge

Answer: (c) Conflict between development and conservation

2. What are 'Hyacinth' and 'Lantana', and what is their impact in India? (IB ACIO 17th Sept. 2025 Shift 1)
- a) Fertiliser-enhancing crops introduced to increase soil productivity
 - b) Invasive species that hinder growth of useful plants
 - c) Native vegetation species supporting ecological balance
 - d) Desert-adapted species introduced to stabilise sand dunes

Answer: (b) Invasive species that hinder growth of useful plants

3. Which of the following statements regarding National Parks and Biodiversity- related conservation in India are correct?
- 1. A State Government may declare an area as a National Park, but boundary changes need the National Board for Wildlife's recommendation.
 - 2. According to IUCN (1969), National Parks should not allow any form of human visitation.
 - 3. The Central Government may notify Biodiversity Heritage Sites in consultation with local bodies.
 - 4. In Biosphere Reserves, tourism is prohibited in the core zone but allowed in buffer and transition zones. (IB ACIO 17th Sept. 2025 Shift 3)
- a) 2 only
 - b) 1 and 3 only
 - c) 1, 2, 3 and 4
 - d) 1 and 4 only

Answer: (d) 1 and 4 only

4. What is the name of the Tibetan wild ass found in the Himalayas? (IB ACIO 18th Sept. 2025 Shift 1)
- a) Yak
 - b) Kiang
 - c) Ibex
 - d) Bharal

Answer: (b) Kiang

5. What is the term used to describe species that are confined to a specific region and NOT found anywhere else? (IB ACIO 18th Sept. 2025 Shift 2)
- a) Native species
 - b) Exotic species
 - c) Indigenous species
 - d) Endemic species

Answer: (d) Endemic species

6. What is the method of conserving biodiversity by protecting the whole ecosystem called? (IB ACIO 18th Sept. 2025 Shift 3)
- a) In situ conservation
 - b) Ex situ conservation
 - c) Offsite conservation
 - d) Genetic engineering

Answer: (a) In situ conservation

7. Which of the following were the negative effects of the green revolution:
- A) Increased economic disparity among regions.
 - B) Deficiency of micronutrients.
 - C) Depletion of groundwater level.
 - D) Physical and chemical degradation of soil.
- (IB ACIO 17th Jan 2024 Shift 2)
- a) A, C, D only
 - b) B, C, D only
 - c) A, B, C only
 - d) A, B, C, D

Answer: (d) A, B, C, D

8. Consider the following statements:
- 1. India's National Clean Air Programme (NCAP) aims to reduce particulate matter (PM) pollution by 10-15% by 2024.
 - 2. The Jal Jeevan Mission focuses on providing safe and adequate drinking water through individual household tap connections by 2024.
 - 3. The National Electric Mobility Mission Plan (NEMMP) targets achieving national fuel security by promoting hybrid and electric vehicles.
 - 4. The FAME India Scheme (Faster Adoption and Manufacturing of Electric Vehicles) is part of National Electric Mobility Mission Plan (NEMMP) and provides subsidies for electric vehicles.
- Which of the statements above is/are correct? (IB ACIO 17th Jan 2024 Shift 3)
- a) 2, 3, and 4 only
 - b) 1, 3, and 4 only
 - c) 1, 2, and 3 only
 - d) 1, 2, 3 and 4

Answer: (a) 2, 3, and 4 only

9. Consider the following statements:
- 1. India's National Action Plan on Climate Change (NAPCC) includes eight missions aimed at promoting sustainable development.
 - 2. India saw the highest year-on-year growth in renewable energy additions of 9.83% in 2022.
 - 3. The Perform Achieve and Trade (PAT) scheme is an initiative under the National Mission for Enhanced Energy Efficiency.
- Which of the statements above is/are correct? (IB ACIO 17th Jan 2024 Shift 3)
- a) 1 and 3 only
 - b) 1, 2 and 3

- c) 1 and 2 only
- d) 2 and 3 only

Answer: (b) 1,2 and 3

10. The National Forestry Action Plan identified which of the following interrelated basic issues confronting forestry development in India? (IB ACIO 18th Jan 2024 Shift 4)

1. Protect existing forests resources
2. Improve forest productivity
3. Expand forest area by tree plantation on non-forest lands only
4. Strengthen the policy and institutional framework

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

Answer: (b) 1, 2, 4 only

11. Which of the following statements is/are correct with respect to 'Indian States' Energy Transition' 2023, prepared by the Institute for Energy Economics and Financial Analysis (IEEFA) along with EMBER and published in February 2023?

- Statement 1: Tamil Nadu and Gujarat are the Indian states making the most progress in overall preparedness and commitment in the transition to clean electricity.
- Statement 2: The report analyses 16 Indian states, which together account for 90% of the country's annual power requirement.
- Statement 3: The report has measured the performance of 16 states in terms of four dimensions, i.e., decarbonisation, performance of the power system, readiness of the power ecosystem, and policies and political commitments. (IB ACIO 18th Jan 2024 Shift 4)

- a) 1, 2 and 3
- b) Only 1 and 2
- c) Only 2 and 3
- d) Only 1

Answer: (c) Only 2 and 3

12. पर्यावरण प्रभाव मूल्यांकन में कई चरण शामिल होते हैं और प्रत्येक चरण परियोजना के समग्र प्रदर्शन को निर्धारित करने में समान रूप से महत्वपूर्ण होता है। निम्नलिखित चरणों को सही कालानुक्रमिक क्रम में व्यवस्थित कीजिए। (IB ACIO 18th Jan 2024 Shift 4)

1. परिदृश्यन (Scoping)
2. प्रभाव-विश्लेषण (Impact-analysis)
3. संवीक्षा (Screening)
4. प्रशमन (Mitigation)

- a) 1, 2, 3, 4
- b) 3, 1, 2, 4
- c) 3, 2, 4, 1
- d) 4, 3, 2, 1

Answer: (b) 3, 1, 2, 4

13. Which of the following statements refers to the process of 'parthenogenesis'?
1. It is a natural form of asexual reproduction in which growth and development of embryos occur without fertilization.
 2. It is a mode of reproduction in which a male organism's sperm fertilizes a female organism's egg outside of the female's body.
 3. It is a mode of reproduction in which a male organism's sperm fertilizes a female organism's egg inside of the female's body.

Select the correct answer using the codes given below: (IB ACIO 18th February 2021 shift 1)

- a) Only 1
- b) Only 1 and 2
- c) Only 3
- d) Only 2

Answer: (a) Only 1

14. Spirogyra is an example of which of the following algae? (IB ACIO 18th February 2021 shift 1)
- a) Red algae
 - b) Brown algae
 - c) White algae
 - d) Green algae

Answer: (d) Green algae

15. _____ is composed of unspecialized living cells with relatively thin cell walls, intercellular space, present in soft part of the plants. (IB ACIO 18th February 2021 shift 1)
- a) Sclerenchyma
 - b) Parenchyma
 - c) Complex permanent tissue
 - d) Collenchyma

Answer: (b) Parenchyma

16. Which of the following compounds act/s as buffering agents in soil? (IB ACIO 18th February 2021 shift 1)
1. Carbonates
 2. Phosphates
 3. Arsenates
- a) Only 3
 - b) Only 1 and 2
 - c) Only 1
 - d) Only 2

Answer: (b) Only 1 and 2

17. The Kanger Valley National Park is located in which of the following states? (IB ACIO 18th February 2021 shift 2)
- a) Gujarat
 - b) Arunachal Pradesh
 - c) Chhattisgarh
 - d) Assam

Answer: (c) Chhattisgarh

18. Which of the following methods is/are used for covering the soil around plants with organic wastes?

- 1. Staking**
- 2. Mulching**
- 3. Pruning**

Select the correct answer using the codes given below. (IB ACIO 18th February 2021 shift 2)

- a) Only 1
- b) Only 1 and 2
- c) Only 3
- d) Only 2

Answer: (d) Only 2

19. Which gas has been detected in large amount by NASA'S Curiosity rover on Mars? (IB ACIO 18th February 2021 shift 2)

- a) Hydrogen
- b) Sulphur
- c) Methane
- d) Nitrogen

Answer: (c) Methane

20. ISWM stands for _____.

- a) Integrated Solid Waste Ministry
- b) Integrated Sanitation and Waste Management
- c) Integrated Solid Waste Management
- d) Integrated Sanitation Waste Ministry

Answer: (c) Integrated Solid Waste Management

21. Consider the following statements with reference to Wilhelm Conrad Rontgen.

- 1. He was the recipient of the first Nobel Prize for Physics in 1901.**
- 2. His discovery of X-rays that revolutionised the fields of physics and medicine.**
- 3. He discovered diffraction of sound waves.**

Which of the statements given above is/are correct? (IB ACIO 18th February 2021 shift 2)

- a) Only 1
- b) Only 1 and 2
- c) Only 1 and 3
- d) Only 2

Answer: (b) Only 1 and 2

22. Consider the following statements regarding Save Water Day.

- 1. On 12 July 2019, the West Bengal government observed Save Water Day across the state to spread the message of water conservation.**
- 2. This was the first-ever Save Water Day observed across West Bengal to spread the message of water conservation.**

3. West Bengal has a water conservation programme called 'Jal Dharo Jal Bharo' to prevent floods and provide water during the period of scarcity.
4. The Government of India has set a target to provide 3.5 lakh households in West Bengal with tap water supply by March 2021.

Which of the statements given above is/are correct? (IB ACIO 19th February 2021 shift 1)

- a) Only 1 and 3
- b) Only 1 and 2
- c) Only 1, 2 and 3
- d) Only 2, 3 and 4

Answer: (c) Only 1, 2 and 3

23. Consider the following statements in reference to the Phylogenetic classification system.

1. It shows an evolutionary relationship between various organisms on the basis of descent from a common ancestor.
2. In this system, the cladistics method is used in generating phylogenetic trees.
3. It was proposed by Swedish Botanist Carolus Linnaeus.

Which of the statements given above is/are correct? (IB ACIO 19th February 2021 shift 1)

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

Answer: (b) 1 and 2 only

24. Consider the following statements in reference to Punjab Preservation of Subsoil Water Act, 2009.

1. As per the Act, no farmer shall sow nursery of paddy before 10^{th} day of May of the agricultural year or such other date as may be notified by the State Government by notification in the Official Gazette for any local area.
2. Any farmer who contravenes the provisions of this Act shall be liable to a penalty of rupees ten thousand for every month, or part thereof, per hectare of the land till the period such contravention continues.
3. As per the Act, 'State government' means 'Government of India'.

Which of the statements given above is/are correct? (IB ACIO 19th February 2021 shift 1)

- a) Only 1 and 3
- b) Only 1 and 2
- c) Only 3
- d) Only 2 and 3

Answer: (b) Only 1 and 2

25. निम्नलिखित विटामिनों में से किसकी कमी के कारण पेलाग्रा होता है? (IB ACIO 19th February 2021 shift 1)

- a) B1
- b) B3
- c) D
- d) A

Answer: (b) B3

26. In which of the following ways can 1 Volt be expressed? (IB ACIO 19th February 2021 shift 1)

- a) 1 Joule per Coulomb
- b) 1 Coulomb per Joule
- c) 1 Joule-Coulomb
- d) 1 Joule-Coulomb per second

Answer: (a) 1 Joule per Coulomb

27. Consider the following statements regarding matter.

- 1. Matter is made up of small particles.
- 2. The forces of attraction between the particles in matter are maximum in gases.
- 3. Evaporation does not cause cooling.
- 4. The matter around us exists in three states: solid, liquid and gas.

Which of the statements given above is/are correct? (IB ACIO 19th February 2021 shift 2)

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

Answer: (d) 1 and 4

28. छड़ी (रॉड) की आकार के बैक्टीरिया को क्या कहा जाता है? (IB ACIO 19th February 2021 shift 2)

- a) बैसिलस
- b) स्पिरिलम
- c) वाइब्रियो
- d) कॉकस

Answer: (a) बैसिलस

29. Consider the following statements regarding the characteristics of a good source of energy.

- 1. It would not do a large amount of work per unit volume or mass.
- 2. It is easily accessible.
- 3. It is easy to store or transport.
- 4. It is not economical.

Which of the statements given above are correct? (IB ACIO 19th February 2021 shift 2)

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

Answer: (d) 2 and 3 only

30. निम्नलिखित में से किस विटामिन का वैज्ञानिक नाम कोबालामिन है? (IB ACIO 19th February 2021 shift 3)

- a) C
- b) B12
- c) B3
- d) D

Answer: (b) B12

31. सतत विकास और जलवायु परिवर्तन के संबंध में निम्नलिखित कथनों पर विचार करें:

- 1. वर्ष 2015 में सतत विकास और पेरिस समझौते के लिए 2030 एजेंडे को अपनाने की गहरी प्रतिबद्धता दिखाई गई।
- 2. जलवायु परिवर्तन के संदर्भ में भारत की निरंतर प्रतिबद्धता से इसे सतत विकास लक्ष्यों में मदद की है, जो 2005-2014 के दौरान भारत की सकल घरेलू उत्पाद (GDP) की उत्सर्जन तीव्रता में 21% की कमी के रूप में दिखती है।

ऊपर दिए गए कथनों में से कौन सा/से सही है/हैं? (IB ACIO 19th February 2021 shift 3)

- a) केवल 2
- b) केवल 1
- c) न तो 1 और न ही 2
- d) 1 और 2 दोनों

Answer: (d) 1 और 2 दोनों

32. टिडल प्रभाव के संबंध में निम्नलिखित कथनों पर विचार करें:

- 1. यह एक ऐसी परिघटना है जिसमें प्रकाश के किरण पुंज का प्रकीर्णन देखा जा सकता है।
- 2. इसे तब देखा जा सकता है जब महीन प्रकाश पुंज एक छोटे छिद्र के माध्यम से एक कमरे में प्रवेश करता है।
- 3. इसे तब देखा जा सकता है जब सूर्य का प्रकाश एक घने जंगल के वितान (कैनोपी) से गुजरता है।

ऊपर दिए गए कथनों में से कौन सा/से सही है/हैं? (IB ACIO 19th February 2021 shift 3)

- a) केवल 1
- b) केवल 3
- c) केवल 2
- d) 1, 2 और 3

Answer: (d) 1, 2 और 3

33. Which of the following is a human factor responsible for soil erosion?

- 1. Deforestation
- 2. Run off water
- 3. Overgrazing
- 4. Glacial erosion

Select the correct answer using the codes given below. (IB ACIO 19th February 2021 shift 3)

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

Answer: (a) 1 and 3

34. किस संघ के प्राणियों को सामान्यतः स्पंज कहा जाता है? (IB ACIO 19th February 2021 shift 3)

- a) टीनोफोरा
- b) एनेलिडा
- c) पोरिफेरा
- d) निडेरिया

Answer: (c) पोरिफेरा

35. What can be the effects of noise pollution on human health? (IB ACIO 19th February 2021 shift 3)

- 1. Damage to the ear and temporary or permanent hearing loss often called 'a temporary threshold shift'
- 2. Irritability, anxiety and stress
- 3. Lowered worker efficiency and productivity
- 4. Loss of vision

Select the correct answer using the codes given below.

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

Answer: (a) 1, 2 and 3 only

36. Members of which of the following phyla are commonly known as sea walnuts? (IB ACIO 20 th February 2021 shift 1)

- a) Arthropoda
- b) Ctenophora
- c) Mollusca
- d) Platyhelminthes

Answer: (b) Ctenophora

37. What can be the effects of ozone depletion on human health?

- a) Sunburn
- b) Cataract
- c) Skin cancer
- d) Aging of the skin

Select the correct answer using the options given below. (IB ACIO 20 th February 2021 shift 1)

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

Answer: (a) 1, 2, 3 and 4

38. Which among the following is the lightest gas? (IB ACIO 20 th February 2021 shift 1)

- a) Neon
- b) Carbon dioxide

- c) Oxygen
- d) Hydrogen

Answer: (d) Hydrogen

39. Consider the following statements regarding the Principle of Centrifugation.
1. As per the principle, the lighter particles are forced to the bottom and the denser particles stay at the top when spun rapidly.
 2. This principle is applied in diagnostic laboratories for blood and urine tests.
 3. This principle is applied in dairies and in homes to separate butter from cream.

Which of the statements given above is/are correct? (IB ACIO 20 th February 2021 shift 1)

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

Answer: (c) 2 and 3

40. Gully erosion is primarily due to:

1. water
2. wind
3. shifting agriculture

Select the correct answer using the codes given below. (IB ACIO 20 th February 2021 shift 2)

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

Answer: (c) 1 only

41. Which among the following is the heaviest gas? (IB ACIO 20 th February 2021 shift 2)

- a) Radon
- b) Hydrogen
- c) Helium
- d) Argon

Answer: (a) Radon

42. Which of the following sentence is/are correct about crop rotation?

1. Crop rotation helps return nutrients to the soil without synthetic inputs.
 2. Crop rotation is the practice of planting different crops sequentially on the same plot of land to improve soil health.
 3. Crop rotation deteriorates the soil structure as same nutrients are used time and time again. (IB ACIO 20 th February 2021 shift 2)
- a) 1 and 3
 - b) 3 Only
 - c) 1 Only
 - d) 1 and 2

Answer: (d) 1 and 2

43. How does air pollution affect living organisms?

1. Sulphur dioxide irritates the respiratory tissues.
2. Nitrogen oxides, especially NO₂, can irritate the lungs.
3. Suspended particles in the air aggravate our respiratory tract, leading to bronchitis and asthma.
4. Many volatile organic compounds and toxic particulates can cause mutations, reproductive problems or cancer.

Select the correct answer using the codes given below. (IB ACIO 20 th February 2021 shift 2)

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

Answer: (d) 1, 2, 3 and 4

44. Which of the following statements defines 'chromatography'?

1. It is the process of separation of components of a mixture.
2. It is used to separate colours in a dye.
3. It is used to separate a mixture of oil and water.

Select the correct answer using the codes given below. (IB ACIO 20 th February 2021 shift 2)

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

Answer: (c) 1 and 2

45. The crystallisation technique is better than the simple evaporation technique and:

1. 'crystallisation' is a process that separates a pure solid in the form of its crystals from a solution.
2. it is applied for purification of salt that we get from sea water.
3. it is applied for separation of crystals of alum from impure samples.

Select the correct answer using the code given below. (IB ACIO 20 th February 2021 shift 2)

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

Answer: (a) 1, 2 and 3

46. What does the term 'carbon count' mean?

1. A measure of the amount of carbon dioxide you produce through your lifestyle every day.
2. A measure of the amount of carbon present on Earth.
3. A measure of the amount of carbon and carbon dioxide on Earth.

Select the correct answer using the code given below: (IB ACIO 20 th February 2021 shift 3)

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

Answer: (b) 1 only

47. Among the following statements which is/are correct.

- 1. Plants convert energy from sunlight into food stored as carbohydrate's.
 - 2. Plants have chlorophyll.
 - 3. Plant cells do not have cell wall.
 - 4. Non-vascular plants grow very tall. (IB ACIO 20 th February 2021 shift 3)
- a) 1, 2 and 4
 - b) 1, 2, 3 and 4
 - c) 1, 2 and 3
 - d) 1 and 2

Answer: (c) 1, 2 and 3

48. The best example of the extinction of species due to man's intervention is: (IB ACIO 2017)

- a) Kiwi
- b) Dodo
- c) Przewalski's Horse
- d) Bustard

Answer: (B) Dodo

49. In 'Internet' term WWW, the 4th W stands for: (IB ACIO 2017)

- a) Web
- b) Worm
- c) Wreck
- d) None of the above

Answer: (B) Worm

50. IPv6 addresses have a size of: (IB ACIO 2017)

- a) 64 bits
- b) 128 bits
- c) 256 bits
- d) 512 bits

Answer: (B) 128 bits

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