

Q1. Which of the following add nutrients in the Ecosystem:

1. Rainfall
2. Runoff water
3. Dustfall
4. Denitrification

Codes:

- a. 1 and 2
- b. 1 and 3
- c. 2 and 4
- d. 1,2 and 4

Q2. Match the following

Group1

1. Western Ghats Development Progm
2. Rashtriya Krishi Vikas Yojana
3. Agricultural Universities

Group2

- a. Agricultural research
- b. Integrated Watershed Approach
- c. Agricultural growth

- A. 1-a,2-b,3-c B)1-b,2-c,3-a C)1-c,2-a,3-b D)1-c,2-b,3-a

Q3. What is 'cloud seeding'?

- A. Creation of artificial clouds to reflect solar radiations to reduce global warming
- B. A method to promote **rainfall** by inducing nucleation
- C. It is an artificial method to increase humidity in upper atmosphere to create rain clouds
- D. The way in which different types of clouds are formed in atmosphere

Q4. The Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES) is

- A. Result of efforts of countries in Africa and Asia, in the aftermath of the 2004 Indian Ocean tsunami

B. is an international and intergovernmental institution registered with the United Nations

C. provides earthquake alert and tsunami watch services to countries along the Indian Ocean and South China Sea regions

D. All of the above

Q5. Select correct statements about Bt cotton from below

1. Bt cotton has resistance against bollworm

2. Bt cotton plant is patented in India

A. Only 1 B) only 2 C)1,2 D) None

Q6. Select correct statements about Irrawaddy dolphins from below

1. They can be found in rivers, lakes and seas

2. They are critically endangered species as per IUCN red data book

A. Only 1 B) only 2 C)1,2 D) None

Q7. What is the difference between Irrawaddy dolphins and Gangetic dolphins?

A. They are two subspecies of freshwater dolphins

B. Both are oceanic dolphins; but with different habitats

C. Irrawaddy dolphins is a oceanic dolphin; but Gangetic dolphin is a freshwater dolphin

D. None of the above

Q8. Match the below

Group1

1. Mosses

2. Lichenes

3. fungi

A. 1-a,2-b,3-c B)1-b,2-c,3-a C)1-c,2-a,3-b D)1-c,2-b,3-a

Group2

a. Composite organism

b. Yeast

c. plant

Q9.Regarding National green tribunal

- A. It follows natural justice
- B. It acts only according to enacted environmental laws
- C. It acts arbitrarily based on the case
- D. None

Q10: Which of the below are top two biodiversity hotspots in India

- 1. Deccan plateau
 - 2. Easter Himalayas
 - 3. Central highlands
 - 4. Western ghats
- A. 1,2 B)1,3 C) 2,4 D) 1,4

Q11.which of the below correct about mangroves

- 1. They produces pneumatophores to overcome respiration problem in the anaerobic soil conditions.
 - 2. Seeds germinate in the tree itself
 - 3. Evergreen land plants
- A. 1,2 B)2,3 C)1,3 D)all

Q12.what are the disadvantages of Ganesh idols made up of plaster of paris with bright paints and dyes?

- 1. Heavy metals seep into groundwater
 - 2. H₂O will be converted into D₂O
- A. Only1 B) only2 C) both 1&2 D)None

Q13.Choose correct statements about honey bee farming

- 1. Honey is used to treat sore throat and cold
 - 2. It also acts as a pollinator
 - 3. In three divisions of bees, females infertiles are the workers and males are drones
- A. 1,2 B) 2,3 C) 1,3 D)1,2&3

Q14. Kashmir saffron is mainly used as a

1. Cooking oil for food items
 2. Coloring and flavour ingredient in food items
- A. Only 1 B) only 2 C) both 1&2 D) none

Q15. which are correct about National Electric Mobility Mission Plan

- A. To reduce pollution by actively encouraging electric vehicles
- B. Government aims to provide fiscal and monetary incentives to kick start this nascent technology
- C. To achieve 100% electric mobility by 2020
- D. B&C

Q16. How elephant census is done

1. By Pugmark technique
 2. Indirect dung count method
- A. Only 1 B) only 2 C) Both 1&2 D) None

Q17: Which of the below correct about increasing order of elephant population

- A. Karnataka < Assam < Kerala
- B. Assam < Karnataka < Kerala
- C. Kerala < Assam < Karnataka
- D. Kerala < Karnataka < Assam

Q18: What is the objective of Ecosystems Service Improvement Project

- A. To improve forest cover in India
- B. To safeguard flora and fauna in the notified parks and sanctuaries
- C. To improve livelihood of forest inhabitants along with its ecosystem
- D. This is to rejuvenate polluted rivers with the help of world bank

Q19. Choose **incorrect** statement about Global Environment Facility (GEF) Trust Fund

1. It is under purview of both world bank and IMF
 2. This fund is available only to government and registered NGO projects
 3. This is funded partly by world bank and partly by raising bonds in the international markets
- A. 1,2 B)1,3 C)2,3 D)1,2,3

Q20. Assertion A: Cloudbursts are common in Himalayan region

Reason R: The region is snow covered and provides sufficient humidity for formation of clouds

- A. Both A&R are correct and R is correct explanation
- B. Both are correct but R is not correct explanation
- C. A is correct, R is wrong
- D. A is wrong, R is right

Q21. Spiti valley of himalayas in the news because

- A. It is a place where Chinese and Indian militaries are in standoff
- B. It is having rare fossils of giant scorpion
- C. It is the famous valley for rearing pashmina sheeps
- D. All

Q22. What is Xenotransplantation

1. It is organ transplantation between different animal species
 2. It is organ transplantation between different animal of same species
- A. Only 1 B) only 2 C) both 1&2 D) none

Q23. Consider the following statements:

1. India's estimated forest cover is about 22% of the country's area.
2. Madhya Pradesh has the largest forest cover .

Select the correct answer using the code given below:

- a) 1 only
- b) 2 Only
- c) Both 1&2

d) Neither 1&2

Q24. which of the following provisions are correct from below?

- 1) 17 States / Union Territories have imposed complete ban on and use of plastic carry bags.
- 2) The use of plastic for packaging gutkha, tobacco and pan masala is also prohibited as per PWMR Rules 2016
- 3) The use of carry bags made from conventional plastic with thickness more than 50 micron is prohibited.
- 4) The rules mandate only producers to work out modalities for waste collection system.

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

Q25. Match the following

- | | |
|----------------|---------------|
| 1) Similipal | a) Assam |
| 2) Nokrek, | b) Uttrakhand |
| 3) Nanda Devi, | c) Meghalaya |
| 4) Manas, | d) Odissa |

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

Q26. Which of the below contributed to reduction in groundwater levels

1. Unregulated borewell
2. Free current for irrigation bore well
3. Canal irrigation to water deficit areas
4. Water intensive crops like rice

- A. 1,2,3
- B. 2,3,4
- C. 1,2,4
- D. 1,2,3&4

Q27. Which of the below are used as new construction materials

1. Fly Ash in place of concretes and cements
2. Processed waste plastic
3. Encapsulated cigarette butts

- A. 1,2
- B. 2,3
- C. 1,3
- D. 1,2,3

Q28. Match the below

Group A

- a) Species richness
- b) Alpha diversity
- c) Beta diversity
- d) Gamma diversity

Group B

- 1) overall diversity for different ecosystems.
- 2) Comparison of diversity between ecosystems.
- 3) diversity Within the particular area.
- 4) number of different species represented in community.

Select the correct answer using the code given below:

- A. a-1,b-2,c-3,d-4.
- B. a-2,b-1,c-3,d-4.
- C. a-4,b-1,c-2,d-3.
- D. a-4,b-3,c-2,d-1.

Q29. Which of the below are correct about living fossils *Cycas*

- A) It is a bacterium mainly found in Andaman & Nicobar Islands
- B) Is a plant found in Lakshadweep
- C) Population of these trees is increasing yearly
- D) None of the above

Q30. Assertion A: A Global warming is an average increase in temperature of the atmosphere near earth's surface and troposphere .

Reason R: This is caused due to carbon dioxide (CO₂) and other greenhouse gases accumulation in the atmosphere.

- A. Both A&R are correct and R is correct explanation
- B. Both are correct but R is not correct explanation
- C. A is correct R is wrong
- D. A is wrong, R is right

Q31. What are the effects of global warming

- 1. Crop pattern will be affected
 - 2. Food habits of pollution will be affected
 - 3. Large displacement of people will happen
- A. 1&2. B) 2&3 C) 1&3. D) 1,2&3

Q32. Choose the correct statements, regarding India's forest cover

- A. Overall forest cover increased over the period 2011-2015
- B. In terms of absolute terms, Tamil Nadu added more forest followed by West Bengal
- C. Forest cover increased in maximum number of states(excluding UT)
- D. All of the above

Q33. What is the main aim of the Geo-engineering

- A. To harness the untapped natural resources
- B. To extract the energy resources
- C. Counteracting the climate change by intervening Earth's natural system
- D. To build underground structures to withstand earthquakes

Q34. What is the effect of Cirrus cloud thinning?

- A. Cool down the Earth temperature
- B. Increases the rainfall
- C. Both
- D. None

Q35. What are the side effects of stratospheric sulphate aerosol increase method?

1. affects the tropospheric circulation
 2. Ozone depletion
 3. Stratosphere warming
- A. 1&3 B) 1&2 C) only 2 D) 1,2&3

Q36. The recently collapsed 'Larsen C' in Antarctica is

- A. Land ice
- B. Sea ice
- C. floating extension of land-based ice
- D. Iceberg

Q37. Explosion of firecrackers

1. Worsens the air pollution of Delhi NCR
 2. Causes toxic chemical pollution
 3. Can cause accidents
- A) 1&3 B) 1&2 C) only 1 D) 1,2&3

Q38. The effect of aerosols in atmosphere include,

1. Increases global warming
 2. Reduces the land surface temperature
 3. Alters the rainfall pattern
- A) 1&3 B) 1&2 C) 2&3 D) 1,2&3