


Test Name : Test 5 - Ecology And Environment  
Difficulty Level : Medium  
Test Type : Free


Total Questions : 100  
Total Marks : 200.00  
Duration : 120.00 mins


**Instruction :****Please read the instructions carefully**

1. The total duration of examination is 120 minutes.
2. Right Answer carries 2 marks and 1/3rd is negative marking in case of the wrong answer.
3. The clock will be set at the server. The countdown timer in the top right corner of the screen will display the remaining time available for you to complete the examination. When the timer reaches zero, the examination will end by itself. You will not be required to end or submit your examination.
4. The test contains 100 questions. Each item is given in the language of your preference (Hindi or English)
5. A test can be given only once
6. In case you feel there is more than one correct response, mark the response, which you consider the best.
7. All questions carry equal marks i.e. 2 marks each question
8. You can always go back and change your answer before submitting the test. However, this is not possible in the actual UPSC preliminary exam.
9. Irrespective of how many answers you have marked, the test will automatically close in 2 hours and you will get your score based on the responses marked till then
10. There are 4 alternatives for each question. For each wrong answer given, one-third of the marks assigned to that question will be deducted as penalty
11. The Question Palette displayed on the right side of the screen will show the status of each question using one of the following symbols:

 **You have not visited the question yet.**

 **You have not answered the question.**

 **You have answered the question.**

 **You have NOT answered the question, but have marked the question for review.**

 **You have answered the question, but marked it for review.**

- Q.1 What is lithosphere made up of?
- A. water
  - B. lava
  - C. rock
  - D. gas
- Q.2 What holds the atmosphere of the earth
- A. electromagnetic force
  - B. tidal force of the moon
  - C. gravitational force
  - D. space vacuum
- Q.3 What is an ecosystem?
- A. All the interacting organisms that live in an environment and the abiotic parts of the environment that affect the organisms
  - B. A person who observes and studies the interactions between the biotic and abiotic parts of the environment
  - C. The relationship among the biotic parts of the environment
  - D. The relationship between all the abiotic elements of a pond
- Q.4 When populations share their environment and interact with populations of other species, it is called a
- A. Biome
  - B. Ecoprovince
  - C. Community
  - D. Ecotone
- Q.5 What are the main mineral constituents of continental mass?
- A. silica and aluminium
  - B. silica and magnesium
  - C. silica and nickel
  - D. silica and iron
- Q.6 How are igneous rocks formed?
- A. gasification of magma
  - B. cooling and solidification of magma

- C. burial of magma under rock layers
- D. breaking down of magma into small fragments

Q.7 Basalt is an example of

- A. intrusive igneous rock
- B. extrusive igneous rock
- C. sedimentary rock
- D. metamorphic rock

Q.8 What is the rock cycle

- A. transformation of rock into smaller particles
- B. transformation of rock into gas
- C. transformation of rock from one kind to another
- D. transformation of rock back into magma

Q.9 Which of these rocks contain fossils

- A. igneous
- B. metamorphic
- C. sedimentary
- D. None of the above

Q.10 The space where an organism lives and the role an organism plays within its ecosystem is referred to as a

- A. Sampling
- B. Community
- C. Population
- D. Niche

Q.11 A food web is more realistic than a food chain for showing the feeding relationships in ecosystems because

- A. It compares the number of consumers to the number of micro-organisms in an ecosystem
- B. Food chains use only a small sampling of organisms.
- C. A food web explains why there are more producers than consumers.
- D. Producers are usually eaten by many different consumers and most consumers are eaten by more than one predator

Q.12 Albedo is a measure of the percentage of light that is

- A. Absorbed by an object.
- B. Transmitted through the atmosphere.
- C. Converted into sugar by photosynthesis.
- D. Reflected by an object

Q.13 Which of these is an exogenic force?

- A. earthquake
- B. volcano
- C. landslide
- D. river

Q.14 When does a river usually form meanders

- A. when it merges with the sea
- B. when it merges with larger water form
- C. when the river enters a plain
- D. when a river approaches a desert or drier area

Q.15 Which is not an erosional feature of sea waves?

- A. Cliff
- B. Beach
- C. Sea cave
- D. none of the above

Q.16 The depositional feature of a glacier is:

- A. Flood plain
- B. Beach
- C. Moraine
- D. none of the above

Q.17 Mushroom rocks are found in:

- A. Deserts
- B. River valleys
- C. Glaciers
- D. none of the above

- Q.18 In which layer of atmosphere does weather phenomena occur?
- A. stratosphere
  - B. ionosphere
  - C. thermosphere
  - D. troposphere
- Q.19 Which layer of atmosphere is used by aeroplanes and why?
- A. ionosphere; it can be used for communication
  - B. troposphere; it provides the right pressure for the human body
  - C. troposphere; it provides the air with the right constituents and proportions
  - D. stratosphere; the turbulence is minimal here
- Q.20 Why does the temperature of earth decrease from the equator to the poles
- A. rotation of the earth
  - B. revolution of the earth
  - C. nature of insolation
  - D. shape of the earth
- Q.21 Which country does the Mekong River not flow through?
- A. Laos
  - B. Malaysia
  - C. Cambodia
  - D. Thailand
- Q.22 Which country is not part of the island of Borneo?
- A. Brunei
  - B. Indonesia
  - C. Malaysia
  - D. Singapore
- Q.23 Which country does not share a border with Laos?
- A. Malaysia
  - B. Vietnam
  - C. China
  - D. Cambodia

- Q.24 The Malacca Strait is off the western coast of which country?
- A. Malaysia
  - B. Brunei
  - C. Indonesia
  - D. Thailand
- Q.25 Which tides help in navigation and why?
- A. High tides; by raising the water level close to the shores
  - B. Low tides; by lowering the water level close to the shores
  - C. Neap tides; by pulling the ocean water in diagonally opposite directions
  - D. All tides help through the rise and fall movement
- Q.26 Which of these is not a warm ocean current?
- A. Labrador current
  - B. North Equatorial current
  - C. Agulhas current
  - D. Gulf Stream current
- Q.27 Generally the warm ocean currents originate near
- A. Poles
  - B. Equator
  - C. None of these
  - D. Tropical Latitudes
- Q.28 Why do tropical deciduous forests shed their leaves?
- A. It is a seasonal change
  - B. shedding in dry season helps conserve water
  - C. To serve as humus for the young plants
  - D. None of the above
- Q.29 Which of these are commonly found along the eastern margin of the continents?
- A. tropical deciduous
  - B. temperate evergreen
  - C. temperate deciduous
  - D. tropical evergreen

Q.30 Why is Mediterranean climate suitable for growing a number of fruits especially citrus?

1. It doesn't have extreme climate
2. It receives a lot of sunshine which is important for citrus fruits
3. These fruits have thick skins which are adapted to the climate
4. None of the above

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

Q.31 One important variety of coniferous forest is:

- A. Rosewood
- B. Pine
- C. Teak
- D. Sal

Q.32 Steppe grassland is found in

- A. South Africa
- B. Australia
- C. Russia
- D. South Asia

Q.33 What is Maloca?

- A. A steeply slanting roof
- B. Another name for slash and burn agriculture
- C. staple food in the amazon basin
- D. Amazonian grassland

Q.34 Drakensberg Mountains bound the

- A. Prairies
- B. Velds
- C. Pampas
- D. none of the above

Q.35 Which of the following are correct about Madhyamik and Uchchatar Shiksha Kosh (MUSK)

1. It is a single corpus fund and non-lapsable

2. It will be maintained by Union Home Ministry
  3. It will be maintained in the Public Account of India
  4. The funds arising from MUSK will be utilised for schemes in education sector, which will be available for benefit of students of secondary and higher education.
- A. All of the above  
B. 1 and 3 only  
C. 1, 3 and 4 only  
D. 4 only

Q.36 August 19 is observed as World Honey Bee Day. Consider the following statements and choose the correct one(s)

1. Honey is a Minor Forest Produce
  2. Honeybees are one of the important inputs for sustainable development of agriculture / horticulture
- A. 1 only  
B. 2 only  
C. Both 1 and 2  
D. Neither 1 nor 2

Q.37 Ex vivo uterine environment therapy has been seen in news recently. What is it related to?

- A. Infants  
B. Tropical Forests  
C. Pollution Control  
D. Underwater Life

Q.38 Consider the following about Navika Sagar Parikrama. Choose the correct statement(s)

1. The expedition aims to showcase 'Nari Shakti' on the world platform
  2. The voyage also aims to show case the 'Make in India' initiative
  3. The crew would monitor and report marine pollution on the high seas.
- A. 1 and 2 only  
B. 2 and 3 only  
C. 1 and 3 only  
D. All of the above

Q.39 Pangong lake is jointly controlled by

- A. India and Nepal  
B. India and Bhutan



- C. India and China
- D. India, Nepal and Bangladesh

Q.40 Consider the following about New Development Bank. Choose the incorrect statement(s)

- 1. China holds the highest share of capital invested
  - 2. It is also called BRICS Bank
  - 3. The first regional office of the bank will be in New Delhi
- A. 1 and 2 only
  - B. 2 and 3 only
  - C. 1 and 3 only
  - D. All of the above

Q.41 Betterment Levy is imposed on?

- A. Luxury Goods
- B. Land
- C. Speciality Hospital Services
- D. Cargo Services

Q.42 Value Capture Financing is seen in the news recently. What is it related to?

- A. Public infrastructure financing
- B. Non-Performing Asset restructuring
- C. Educational loan waivers
- D. Forex reserves management

Q.43 Consider the following about the New Metro Rail Policy approved by the cabinet. Choose the correct statement(s)

- 1. Private participation is highly restricted keeping in mind the probable repercussions
  - 2. Timely revision of fares of all Metro Rail projects will be done by the Centre on the recommendation of Delhi Metrorail Corporation
- A. 1 only
  - B. 2 only
  - C. Both 1 and 2
  - D. Neither 1 nor 2

Q.44 Consider the following statements. Choose the incorrect statement(s)

- 1. In a Net Cost Contract, private operator is paid a fixed sum for the duration of the contract.

Operator to bear the O&M risk while the owner bears the revenue risk.

2. In a Gross Cost Contract, the operator collects the complete revenue generated for the services provided. If revenue generation is below the O&M cost, the owner may agree to compensate.

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 and 2

Q.45 Consider the following statements. Choose the correct statement(s)

- 1. Viability Gap Funding has a welfare element attached to it
- 2. It is only available for wholly public operated projects

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

Q.46 Consider the following about cess. Choose the correct statement(s)

- 1. The cess proceeds are a part of the Consolidated Fund of India
- 2. The proceeds should be shared between Centre and States mandatorily

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

Q.47 Consider the following statements. Choose the correct statement(s)

- 1. A Memorandum of Understanding establishes a legally binding agreement
- 2. A contract similar to a MOU also establishes a legally binding agreement and is governed by the Indian Contract Act.

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

Q.48 Recently the Cabinet had approved a MOU with Sweden on Intellectual Property Rights.

Consider the following statements. Choose the correct statement(s)

- 1. Educational institutions are kept out of the ambit of the MOU

2. Protection of traditional knowledge is considered
- A. 1 only
  - B. 2 only
  - C. Both 1 and 2
  - D. Neither 1 nor 2

Q.49 The North Koel reservoir irrigation project was stalled from early 90s over submergence of which of the following wildlife conservation sites?

- A. Palamau Tiger Reserve
- B. Valmiki National Park
- C. Gautam Budha Wildlife Sanctuary
- D. Bhimbandh Wildlife Sanctuary

Q.50 Consider the following statements about Long Term Irrigation Fund (LTIF). Choose the correct statement(s)

- 1. The fund is created in NABARD
  - 2. The source of money will be from budgetary allocations alone
  - 3. The fund will fast track the implementation of incomplete major and medium irrigation projects.
- A. 1 only
  - B. 2 and 3 only
  - C. 1 and 3 only
  - D. 3 only

Q.51 Recently Cabinet approved the closure of a Public Sector Undertaking in Andaman and Nicobar Islands. What is the name of the PSU?

- A. Andaman & Nicobar Islands Forest & National Seeds Corporation Ltd.
- B. Hindustan Salts Ltd.
- C. The Jute Corporation of India Ltd.
- D. Andaman & Nicobar Islands Forest and Plantation Development Corporation Ltd.

Q.52 Consider the following about Green India Mission. Choose the correct statement(s)

- 1. It is one of the constituents of National Action Plan on Climate Change
  - 2. It encourages the participation of local communities in conservation process
- A. 1 only
  - B. 2 only
  - C. Both 1 and 2

D. Neither 1 nor 2

Q.53 Consider the following statements about Global Environment Facility. Choose the correct statement(s)

1. It was established during the 1992 Rio Summit
2. It does not deal with the private sector owing to conflict of interests

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

Q.54 The GEF is a financial mechanism for which of the following conventions?

1. The Minamata Convention on Mercury
2. The United Nations Convention to Combat Desertification (UNCCD)
3. The United Nations Framework Convention on Climate Change (UNFCCC)

- A. 1 and 2 only
- B. 3 only
- C. 2 and 3 only
- D. All of the above

Q.55 India has recently signed a grant agreement from the Global Environment Facility (GEF) for Ecosystem Service Improvement Project. Consider the following statements in this regard. Choose the correct statement(s)

1. The project will be entirely financed by the World Bank out of its GEF Trust Fund
2. One of the objectives is to improve the livelihoods of forest dependent communities in Central Indian Highlands

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

Q.56 'Alinafor' spacecraft will be sent to the moon by a private entity for which of the following reasons?

- A. To collect samples for university based research
- B. To explore the scope of mineral extractions from the moon
- C. To establish 4G connectivity on the moon
- D. To clear out waste accumulated on the surface of the moon

- Q.57 Consider the following about Helium. Choose the correct statement(s)
1. It was an element that had been discovered in space instead of on Earth
  2. It is used in very deep scuba diving equipment and MRI scanners
- A. 1 only  
B. 2 only  
C. Both 1 and 2  
D. Neither 1 nor 2
- Q.58 Consider the following statements about the Global Retirement Index 2017. Choose the incorrect statement(s)
1. It is published by World Economic Forum
  2. It only considers the countries belonging to the OECD
- A. 1 only  
B. 2 only  
C. Both 1 and 2  
D. Neither 1 nor 2
- Q.59 Two new species of earthworms were found in India recently. In which part of the country were they found?
- A. Western Ghats  
B. Eastern Ghats  
C. Andaman and Nicobar Islands  
D. The Great Indian Desert
- Q.60 Consider the following statements about Apache AH-64E helicopters. Choose the correct statement(s)
1. The helicopters are being procured by the Indian Airforce
  2. They are stealth choppers
  3. India is procuring these choppers from the US
- A. 1 and 2 only  
B. 2 and 3 only  
C. 1 and 3 only  
D. All of the above
- Q.61 Consider the following about Elephant census of India
1. The Northeastern region recorded the maximum number of elephants in the country
  2. Compared to the 2012 census, the number has decreased

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

Q.62 Single-Photon Emission Computed Tomography (SPECT) has been seen in the news recently. What is it related to?

- A. Archeological excavations
- B. Food processing
- C. Tumour detection
- D. Plant growth

Q.63 Recently, an ancient tree species (*Cycas pschannae*) belonging to the Jurassic period was found in which of the following places?

- A. Meghalaya
- B. Manipur
- C. West Bengal
- D. Lakshadweep Islands

Q.64 Consider the following statements about a development in a vaccine for Zika. Choose the correct statement(s)

- 1. Proteins extracted from Tobacco plant have been tested to fight against the disease.
- 2. Few side effects and is not cross reactive with other types of mosquito born diseases

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

Q.65 Consider the following statements about Zika virus. Choose the incorrect statement(s)

- 1. It may also lead to Guillain-Barre syndrome which is a rapidly developing neurological condition that causes weakness of the arms and legs and can progress to life-threatening respiratory failure
- 2. World Health Organisation (WHO) had declared the disease as epidemic and global health emergency but later revoked it after the outbreak was brought under control.

- A. 1 only
- B. 2 only
- C. Both 1 and 2

D. Neither 1 nor 2

Q.66 Recently, the Government of Odisha launched SheMeansBusiness scheme to train women entrepreneurs along with which of the following entity?

- A. UNESCO
- B. World Bank
- C. Facebook
- D. UNICEF

Q.67 The world's first partition museum was inaugurated in India recently. Where is this located?

- A. New Delhi
- B. Mumbai
- C. Kolkatta
- D. Amritsar

Q.68 \_\_\_\_\_ is a self-regulating and self-sustaining structural and functional unit of the biosphere

- A. Community
- B. Population
- C. Ecosystem
- D. Environment

Q.69 Arrange the following according to the increasing order of magnitude:

- 1. Population
- 2. Biome
- 3. Community
- 4. Organism

Options:

- A. 1234
- B. 4132
- C. 4123
- D. 4312

Q.70 Consider the following statements:

- 1. Abiotic components are the non-living components that affect the distribution, number, metabolism and behaviour of organisms in an ecosystem.
- 2. Heterotrophic are those organisms that consume the food produced by the producers.

Choose the correct options:

- A. Only statement 1 is correct
- B. Only statement 2 is correct
- C. Both the statements are correct
- D. Both are incorrect

Q.71 Which of the following is **not** an artificial ecosystem:

- A. Pond
- B. Park
- C. Garden
- D. Cities

Q.72 There are three major types of forests, classed according to latitude. Which of the following is **not** one of them?

- A. Tropical Forests
- B. Temperate Forests
- C. Boreal or Taiga Forests
- D. Montane forests

Q.73 Zebras, giraffes, cheetah and rhinoceros in Africa, bison in North America, kangaroos in Australia are all common inhabitants of:

- A. Forest ecosystem
- B. Desert ecosystem
- C. Marine ecosystem
- D. Grassland ecosystem

Q.74 Most of the animals living in the deserts are nocturnal. This means that they-

- A. Cannot hear any form of sound
- B. Are active only at night
- C. Possess excellent water retaining techniques
- D. None of the above

Q.75 Consider the following:

1. Lakes, marshes and swamps are examples of lotic ecosystems
2. Lentic ecosystems are that of standing water or also called pond ecosystems

Choose the correct options:



- A. Only statement 1 is correct
- B. Only statement 2 is correct
- C. Both the statements are correct
- D. Both are incorrect

Q.76 The topmost zone near the shore of a lake or pond is the \_\_\_\_ zone:

- A. Surface zone
- B. Littoral zone
- C. Buffer zone
- D. None of the above

Q.77 consider the following:

1. They constitute a variety of fauna including worms, oysters, crabs and waterfowl.
2. They have special ability to maintain salt and water balance in the presence of changing environment.
3. They also have special adaptations to tidal and wave action.

The above statements are the description of-

- A. Oceans
- B. Rivers
- C. Coasts
- D. Estuaries

Q.78 . match the following:

1. Carbon a) The basic constituents of life that drives all life processes
2. Nitrogen b) Structural component of proteins and nucleic acids
3. Calcium c) Structural component of bone; regulator of cell permeability
4. Iron d) Structural component of haemoglobin and many enzymes.

Options:

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

Q.79 Which of the following concentrations of gases in the atmosphere is not fixed?

- A. Oxygen
- B. Nitrogen
- C. Carbon dioxide

D. Water vapour

Q.80 Instead of ingesting food, they release enzymes into the dead organic matter and then absorb some of the degraded product. These organisms are known as:

- A. Autotrophs
- B. Phagotrophs
- C. Saprotrophs
- D. Heterotrophs

Q.81 lichens are an example of:

- A. Mutualism
- B. Commensalism
- C. Ammensalism
- D. Competition

Q.82 commensalism refers to:

- A. When both species are mutually benefited.
- B. The association of different species in which only one of the organisms is benefited, but the other organism is not benefited, or adversely affected
- C. The relationship where is benefitted by the direct utilization of another
- D. Where each species is adversely affected by the presence of another in terms of food, shelter, space, light etc.

Q.83 Grasses --- grasshopper ---- frog --- snake --- hawk. This is an example of:

- A. Marsh community
- B. Forest community
- C. Grassland ecosystem
- D. Agro ecosystem

Q.84 Aquatic insects --- small fishes --- large fishes. This is an example of:

- A. Marsh community
- B. Estuaries
- C. Pond ecosystem
- D. Marine ecosystem

- Q.85 Green plants --- butterfly --- dragonfly ---frog ---snake --- hawk. This is an example of:
- A. Marsh community
  - B. Forest ecosystem
  - C. Pond ecosystem
  - D. Grassland ecosystem
- Q.86 Pyramid of \_\_\_\_ is the one in which the total dry weight, colour value or other measure of living material are depicted-
- A. Energy
  - B. Number
  - C. Biomass
  - D. None of the above
- Q.87 The major reservoir of carbon is the:
- A. Biosphere
  - B. Atmosphere
  - C. Oceans
  - D. Lithosphere
- Q.88 Phosphorous Cycle is an example of-
- A. Igneous cycle
  - B. Metamorphic cycle
  - C. Sedimentary cycle
  - D. None of the above
- Q.89 Inter cropping involves growing:
- A. Different crops simultaneously within the same area of land
  - B. Same crops simultaneously within different land areas
  - C. Either a or b
  - D. Neither a nor b
- Q.90 The in-situ conservation means:
- A. conservation of wildlife in its natural habitat
  - B. conservation of wildlife in national parks
  - C. conservation of wildlife in Biospheres
  - D. conservation of wildlife in zoos

Q.91 A national park is an area which is strictly reserved for the betterment of the wildlife and where human activities like forestry, grazing or cultivation are not permitted Wildlife sanctuaries

- A. Bird sanctuaries
- B. Biosphere reserves
- C. Wildlife sanctuaries
- D. None of the above

Q.92 Many projects are being carried out in India to prevent the extinction of some endangered wild animal species. Which among the following is **not** one of them?

- A. Project Hangul
- B. Project Tiger
- C. Gir Lion Project
- D. Project Elephant

Q.93 consider the following statements:

1. It takes into consideration the entire ecosystem.
2. Its boundaries are marked by legislation.
3. Tourism generally not allowed.

The above statements describe:

- A. National Park
- B. Wildlife Sanctuary
- C. Biosphere Reserve
- D. None of the above

Q.94 Consider the following statements:

1. Renewable resources are those that have the capacity to replenish
2. Non-Renewable resources are those that can never be renewed

- A. Choose the correct options:
- B. Only statement 1 is correct
- C. Only statement 2 is correct
- D. Both the statements are correct Both are incorrect

Q.95 majority of earth's water apart from Oceans is present as-

- A. Lakes
- B. Ice caps

- C. Rivers
- D. Water vapour

Q.96 The trees using carbon dioxide from respiration and release oxygen during photosynthesis is a

- A. Productive function
- B. Protective function
- C. Regulatory function
- D. Accessory function

Q.97 which of the following places together form the union territory of Puducherry?

- 1. Mahe
- 2. Karaikal
- 3. Yanam
- 4. Udupi

Options:

- A. 123
- B. 234
- C. 1234
- D. 134

Q.98 which of the following is not located in the western coast of India?

- A. Coramandel coast
- B. Pulicat Lake
- C. Rameshwaram
- D. Ernakulam

Q.99 which among the following states have their capital cities located on the coast?

- A. Karnataka
- B. Andhra Pradesh
- C. Kerala
- D. None of the above

Q.100 The Cauvery River Basin extends over the states of:

- A. Only Karnataka
- B. Only Karnataka and Tamil Nadu
- C. Karnataka, Tamil Nadu and Kerala



D. Karnataka, Tamil Nadu, Kerala and Goa