
Student Name:

Student ID

Read the instructions carefully

1. **Must write your name and ID in the indicated space over question paper and answer sheet**
2. **Mark your answers legibly in the space given in the indicated box at the end.**
3. **No overwriting is allowed.**
4. **Use only pen to tick (section 1 and 2)/write (section 3) in the respective boxes**
5. **There is negative marking (0.25) for MCQs and MSQs (with more than one answers).**
6. **Marks will not be awarded unless all the correct answers are chosen for the MSQs.**

Section 1

Multiple choice Questions (MCQs) 24 X 0.5 = 12M (Negative marking (0.25) for MCQs)

1. The popular magazine published by the Centre for Science and Environment:
 - a. Down to Earth
 - b. Me and my earth
 - c. Indian Forester
 - d. The times of biodiversity
2. Mandate of Zoological Survey of India was:
 - a. Study of endogenous species in India
 - b. Systematic survey of fauna in India
 - c. Study of biodiversity in India
 - d. Study of birds in India
3. The majority of the available fresh water on the earth comes from
 - a. Lakes
 - b. Rivers
 - c. Ground water
 - d. Icecaps and Glaciers
4. Which of these are not considered as criteria air pollutants?
 - a. Ozone
 - b. Lead
 - c. Carbon monoxide
 - d. Mercury
5. Minamata is caused by
 - a. As
 - b. Cd
 - c. Pb
 - d. None of them

6. The term BOD stands for
 - a. Biochemical oxygen demand
 - b. Benthic oxygen demand
 - c. Bacterial oxygen demand
 - d. Bacterial oxygen decomposition
7. Which of the following particle cannot pass through human skin?
 - a. α (alpha)
 - b. β (beta)
 - c. γ (gamma)
 - d. None of the above
8. Which of the following is the full form of ESA?
 - a. Ecological System Assessment
 - b. Ecologically Sensitive Area
 - c. Ecological Sound Area
 - d. Ecologically Sensed Area
9. Extinction of some species occurs due to changes in land use and seriously affects the ecosystem. Such species are called?
 - a. Endangered species
 - b. Keystone species
 - c. Common species
 - d. Rare species
10. In ecological succession, the intermediate developmental phase is known as
 - a. Ecesis
 - b. Climax
 - c. Serel
 - d. Nudation
11. Plants convert energy from the sunlight into _____ for their growth.
 - a. Inorganic substance
 - b. Chemical particle
 - c. Organic matter
 - d. Energy component
12. _____ break down dead organic material into smaller particles and finally into simpler substances that are used by plants as nutrition.
 - a. Primary consumers
 - b. Carnivores
 - c. Producers
 - d. Detrivores
13. Morphine is derived from?
 - a. Velvet bean
 - b. Opium poppy
 - c. Pineapple
 - d. Mint
14. Which of the following is a water bird sanctuary known for the Siberian Crane?
 - a. Kanha
 - b. Ranthambore
 - c. Gir Sanctuary
 - d. Keoladeo National Park

15. _____ among the following is the hotspot of biodiversity in India.
- Gangetic plain
 - Sunderbans
 - Eastern ghats
 - Western ghats
16. Forest core zone and National Parks are classified under _____ category/ies of protected areas under _____ respectively
- I and II
 - I only
 - II and III
 - II only
17. The _____ is the only home of the wild ass in India.
- Gir
 - Little Rann of Kutch
 - Ladakh
 - Thar
18. Which of the following includes the soil component in Earth's Resources?
- Geosphere
 - Lithosphere
 - Mesosphere
 - Stratosphere
19. Which is **not** a secondary pollutant
- Methane
 - ozone
 - Sulphur trioxide
 - Nitrogen dioxide
20. Which plant-based food production is largest contributor of greenhouse gas?
- Rice
 - Wheat
 - Sugarcane
 - Phytoplankton
21. Which of the following is not a threat to biodiversity?
- Habitat loss
 - Poaching of wildlife
 - Man-wildlife conflict
 - Declaration of bioreserves
22. Vector borne disease spread depends on
- Water purity
 - Rainfall pattern
 - Polluted air
 - Health of the host
23. How many national parks are there in India?
- 59
 - 69
 - 79
 - 89
24. Beej Bachao Andolan is
- An initiative of villagers in Tehri district for ex situ conservation
 - A movement pioneered by the farmers of West Bengal
 - A government initiative for seed bank generation
 - A movement started under the leadership of Medha Patekar

Section 2

Multiple select questions (MSQs) (1 X 18 = 18M)

There is negative marking (0.25). Marks will not be awarded unless all the correct answers are chosen for the MSQs.

1. The direct effect(s) of deforestation include
 - a) Soil erosion
 - b) Flood
 - c) Global warming
 - d) Noise pollution
2. Which of the following is/are both greenhouse gas(es) and ozone depleting substance(s)?
 - a) CFC-11
 - b) CO₂
 - c) SO₂
 - d) N₂O
3. Which of the following element(s) may cause radioactive pollution:
 - a) Carbon-14
 - b) Carbon-12
 - c) Radium-226
 - d) Urenium-238
4. Which of followings are examples of aerosols where the dispersed phase is liquid, and the dispersing medium is a gas?
 - a) Fume
 - b) Fog
 - c) Mist
 - d) Smoke
5. Which of the following factors leads to Eutrophication?
 - a) Excessive use of fertilizers
 - b) Enhancement of self-purification capacity
 - c) Using alternatives (non-nitrogenous and non-phosphorus) to inorganic fertilizers and pesticides.
 - d) Discharge of waste water into water bodies
6. Sustainable Utilization means
 - a) The growth that satisfies current demands without jeopardising future generations' ability to fulfil their own needs.
 - b) Ensuring the proper utilizations and management of resources.
 - c) Proper and efficient use of renewable and non-renewable natural sources
 - d) Excessive use of natural product for the benefit of the entire biological community in an ecosystem.
7. Factors that threaten to reduce biodiversity
 - a) Bioinvasion
 - b) Overexploitation
 - c) Excessive elimination of pests
 - d) Food web
8. Which one(s) from the below list are **not** related to *in situ* conservation
 - a) Marine National Park in Gujarat
 - b) National bureau of plant genetic resources (NBPGR)
 - c) Beej Bachao Andolan
 - d) Bhagabatpur Crocodile Project, Sundarban

9. Which is **not** true for 'Bhed Bhagao Andolan'
 - a) Involvement of local community of Kutch, Gujrat for the initiatives related to conservation and regeneration
 - b) started after the threat over biodiversity in Kailadevi Wildlife Sanctuary
 - c) regulate excessive pastoralism and subsistence agriculture
 - d) started under the leadership of Sunder Lal Bahuguna
10. Which of the following are drawbacks of Hydro-electric power?
 - a) Large area of land is required
 - b) Water flows from height to ground level
 - c) Water present in the reservoir is wasted
 - d) Silting of the reservoirs
11. Which of the following practices come under Integrated Crop Management?
 - a) Maintaining proper stocks of pesticides and fertilizers during the growing season
 - b) Using alternatives to inorganic fertilizers and pesticides
 - c) Using only drip irrigation for farming practices
 - d) Growing multiple varieties of crops
12. The Chennai flood during December 2015 killing more than 500 and destroying infrastructure worth Rs 500 crore was due to
 - a) a drain (small river) called Mithi, was clogged and marred by encroachments
 - b) encroachments of the wetlands like Pallikaranai lake
 - c) excessive rainfall
 - d) improper sewage treatment connected to Cooum, Adyar
13. Major components of "smog" are
 - a) Stratospheric ozone
 - b) Ground level ozone
 - c) Volatile organic compound
 - d) CO₂
14. Water hyacinth is related to
 - a) Bioinvasion
 - b) Eutrophication
 - c) Habitat loss
 - d) Indigenous plant of India majorly found in waterbodies of kerala
15. Places where Coral reefs are found in India
 - a) Wetlands of Assam
 - b) Andaman and Nicobar Islands
 - c) Sunderban Delta
 - d) Shallow areas near gulf of Kutch
16. Which is a non-Governmental institute that deals with environmental protection and conservation?
 - a) BNHS
 - b) BSI
 - c) ZSI
 - d) WWF-I
17. SP Godrej was one of India's greatest supporter of:
 - a) Conserving sacred groves
 - b) Study of mammals, birds, and insects
 - c) Wildlife conservation
 - d) Nature awareness program

18. Choose the correct statement (s) with regards to the reintroduction of Cheetah in India after being extinct for 70 years.

- a) Cheetah was introduced in the Ranthambore National Park, Madhya Pradesh
- b) Cheetah was introduced in the Kuno National Park, Madhya Pradesh
- c) Cheetahs were relocated from Namibia
- d) Cheetahs were relocated from Iran

Section 3

Fill in the blanks (1 x 20 = 20 M)

1. In air pollution, SPM stands for _____.
2. _____ considers the number of different taxonomic categories of the species present in a geographic region.
3. _____ organism that feeds on nonliving organic matter.
4. The chemicals known to be major contributors of the acid deposition are _____ and _____.
5. The particulate matter which can penetrate alveolus in lungs is _____ and the one which can pass through the lungs is _____.
6. The entire natural resources could be categorized to _____ and _____.
7. Slash-and-burn is basically a _____ method used to create a field called _____.
8. Globally accepted national 'hot spots' are in the forests of the _____ and the _____.
9. A _____ effect or chain reaction is the cumulative effect produced when one event sets off a chain of similar events.
10. _____ a man-made situation that worsens the effects of drought.
11. _____ is the most abundant element in the Lithosphere.
12. The pigmy hog, smallest wild boar in the world found in _____ Sanctuary.
13. Extinction of Dodo was due to _____.
14. The AQI (Air Quality Index), India ranges from _____ (least concern) to _____ (greatest concern).
15. _____ are a population or group of population with sharing characteristics and capable of breeding within the population.
16. _____ is the collection of organisms of a particular species, living in a given geographic area, or space.
17. Population size is controlled through the addition effect by _____ and _____, and through reduction of individuals by _____ and _____.
18. _____ is the maximum rate at which a population could increase when birth rate is maximal and death rate is minimal.
19. The book 'Fall of a Sparrow' written by _____.
20. The atmosphere, hydrosphere and lithosphere are all connected through the _____.

Birla Institute of Technology and Science, Pilani – Hyderabad Campus

Semester I, 2022-23

BITS F225: ENVIRONMENTAL STUDIES

Mid Semester Examination (Open Book)

Date: 03.11.2022 Marks: 50 Duration: 90 Min

(B)

Student Name:

Student ID:

Q. No.	Section 1			
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Q. No.	Section 1			
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	DO NOT write anything in this box			
	Section 1			
	Correct Answer		Wrong Answer	
	0.5M X		0.25M X	
Marks	Obtained	=	Deducted	
Final Marks				

Q. No.	Section 2			
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Q. No.	Section 2			
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	DO NOT write anything in this box			
	Correct Answer		Wrong Answer	
	1 M X _____		0.25M X _____	
Marks	Obtained	=	Deducted	
Final Marks				

Q. No.	Section 3
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	DO NOT write anything in this box	
	Correct Answer 1M X _____	
Marks	Obtained	
Final Marks		