

# 60 DAY RAPID REVISION (RARE) SERIES

UPSC/IAS Prelims 2022

**Daily Test Compilation**

**Week 5 & 6**

**Environment**

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**Q.1) Consider the following statements:**

1. Methanogens are bacteria that produce methane by growing aerobically on cellulosic material.
2. Biogas is a mixture of gases predominantly containing methane.
3. Methanogens play an important role in the nutrition of cattle.

**Which of the statements given above is/are correct?**

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

**Q.1) Solution (c)****Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Incorrect</b>	<b>Correct</b>	<b>Correct</b>
Methanogens are microbes that produce methane by growing anaerobically (not aerobically) on cellulosic material.	Biogas is a mixture of gases predominantly containing methane. It is produced by the microbial activity and may be used as fuel.	Methanogens like Methanobacterium are present in the rumen of (a part of stomach) of cattle. A lot of cellulosic material present in the food of cattle is also present in the rumen. In rumen, these microbes help in the breakdown of cellulose and play an important role in the nutrition of cattle.

**Q.2) Consider the following statements regarding bioremediation techniques:**

1. Bio-venting involves the release of substantial quantities of microorganisms to carry out a specific remediation task in a given contaminated environment.
2. Bioaugmentation involves supplying of air and nutrients through wells to contaminated soil to stimulate the growth of microorganisms.

**Which of the above statements is/are correct?**

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

**Q.2) Solution (d)****Statement Analysis:**

Statement 1	Statement 2
<b>Incorrect</b>	<b>Incorrect</b>
Bio-venting involves supplying of air and nutrients through wells to contaminated soil to stimulate the growth of microorganisms.	Bioaugmentation involves the release of substantial quantities of microorganisms to carry out a specific remediation task in a given contaminated environment.

**Q.3) Consider the following statement about the Oil spills:**

1. Oil spills at sea decreases the Dissolved Oxygen (DOs) in the water and cause harm to the organisms.
2. Oil spills at sea decreases the Chemical oxygen demand (COD) in the water and cause harm to the organisms.
3. Using bioremediation techniques, TERI has developed a mixture of bacteria called 'oilzapper' which degrades the pollutants of oil-contaminated sites.

**Which of the above statement/s is/are correct?**

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

**Q.3) Solution (c)****Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Correct</b>	<b>Incorrect</b>	<b>Correct</b>
Oil spills at sea decreases the Dissolved Oxygen (DOs) in the water and cause harm to the organisms.	Oil spills at sea increase the Chemical oxygen demand (COD) in the water and cause harm to the organisms.	Using bioremediation techniques, TERI has developed a mixture of bacteria called 'oilzapper' which degrades the pollutants of oil-contaminated sites.

**Q.4) Consider the following statements regarding Coalition of Epidemic Preparedness for Innovation (CEPI):**

1. It is a WHO subsidiary.

2. It is a foundation that takes donations to finance independent research projects to develop vaccines against emerging infectious diseases (EID).
3. It is focused on the WHO's 'blueprint priority diseases'.

**Which of the above statements is/are correct?**

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

**Q.4) Solution (b)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Incorrect</b>	<b>Correct</b>	<b>Correct</b>
CEPI is neither a WHO subsidiary nor a UN body.	The CEPI is a foundation that takes donations to finance independent research projects to develop vaccines against emerging infectious diseases (EID).	It is focused on the WHO's 'blueprint priority diseases'.

**Q.5) Which of the following statements is/are correct regarding National Mission for Electric Mobility?**

1. NEMMP aims to achieve national fuel security by promoting hybrid and electric vehicles in the country.
2. The government would provide fiscal and monetary incentives for this industry.
3. The National Council for Electric Mobility (NCEM) is chaired by the Minister for Heavy Industries & Public Enterprises.

**Select the correct answer using the codes given below:**

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

**Q.5) Solution (d)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Correct</b>	<b>Correct</b>	<b>Correct</b>

NEMMP aims to achieve national fuel security by promoting hybrid and electric vehicles in the country.	The government would provide fiscal and monetary incentives for this industry.	The National Council for Electric Mobility (NCEM) is chaired by the Minister for Heavy Industries & Public Enterprises.
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**Q.6) Forest fires are uncontrolled fires that burn surface vegetation. Which of the following are the impact(s) of the forest fire?**

1. It replenishes carbon sinks.
2. There is loss of valuable timber resources.
3. It leads to the ozone layer depletion.

**Select the correct answer using the code given below.**

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

**Q.6) Solution (a)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Incorrect</b>	<b>Correct</b>	<b>Correct</b>
Forest fire causes depletion of carbon sinks.	Forest fire causes loss of valuable timber resources.	Forest fire leads to the depletion of ozone layer.

**Notes:**

Forest fires are uncontrolled fires that burn surface vegetation.

Forest fires cause following adverse impacts:

- Loss of valuable timber resources.
- Depletion of carbon sinks.
- Degradation of water catchment areas resulting in loss of water.
- Loss of biodiversity and extinction of plants and animals.
- Loss of wildlife habitat and depletion of wildlife.
- Loss of natural regeneration and reduction in forest cover and production.
- Global warming resulting in rising temperature.
- Loss of carbon sink resource and an increase in the percentage of CO<sub>2</sub> in the atmosphere.
- Change in the microclimate of the area making it unhealthy living conditions.

- Soil erosion affecting the productivity of soils and production.
- Ozone layer depletion.
- Health problems leading to diseases.
- Indirect effects on agricultural production leading to loss of livelihood.

**Q.7) Which of the following organisations/policies provide guidelines for the resettlement and rehabilitation of displaced persons due to anthropogenic or natural disasters in India?**

1. United Nations Relief and Rehabilitation Administration.
2. National Policy on Resettlement and Rehabilitation -2003.
3. World Commission on Dams.

**Select the correct answer using the code given below:**

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

**Q.7) Solution (d)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Correct</b>	<b>Correct</b>	<b>Correct</b>
United Nations Relief and Rehabilitation Administration -1943.	National Policy on Resettlement and Rehabilitation -2003.	3. World Commission on Dams -2000.

**Q.8) Which of the following is/are the possible reason/s of habitat destruction and deterioration?**

1. Agriculture expansion
2. Livestock pressure
3. Human conflicts and wars

**Select the correct answer using the code given below:**

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

**Q.8) Solution (a)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
Clearing of forest areas for agricultural expansion causes destruction and deterioration of habitats.	Clearing of forest areas because of livestock pressure causes destruction and deterioration of habitats.	Critical natural habitat and its associated biodiversity are diminished in wars around the world.

**Q.9) Pantanal Wetlands, world's largest tropical wetland, has been in news due to its forest fires. It is located in**

- a) North America
- b) South America
- c) Africa
- d) Australia

**Q.9) Solution (b)**

**Explanation:****Pantanal Wetlands:**

- The number of forest fires in the Pantanal wetland, the world's largest tropical wetlands, has tripled in 2020 compared to previous years, according to Brazil's national space agency.
- Pantanal Wetlands have located in South America Region. The wetlands are located across Brazil, Paraguay, and Bolivia and are one of the most biodiverse areas in the world.
- It is the world's largest tropical wetland. Wetlands like it are the Earth's most effective carbon sinks, which absorb and store more carbon than they release. Thus, they play a key role in mitigating climate change.
- At roughly 200,000 square kilometers, the Pantanal comprises about 3% of the globe's wetlands and plays a key role in the carbon cycle.
- When these carbon-rich ecosystems burn, vast amounts of heat-trapping gases are released back into the atmosphere, contributing to the greenhouse effect.

**Q.10) Heatwaves occurring in the ocean are known as Marine Heatwaves (MHWs). Which of the following statements are correct regarding the Marine Heatwaves?**

1. They occur when sea surface temperatures rise and stay above the expected seasonal temperatures for at least five days in a row.
2. They can occur both in summers and winters.
3. They can be strengthened by the warm ocean currents.

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

**Q.10) Solution (d)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Correct</b>	<b>Correct</b>	<b>Correct</b>
It is said to occur when sea surface temperatures in part of the ocean rise and stay above the expected seasonal temperatures for at least five days in a row.	They can occur both in summers and winters.	They can be strengthened by the warm ocean currents.

**Q.11) With reference to recently launched Green-Term Ahead Market (GTAM) in electricity, consider the following statements:**

1. It is a platform for trading of electricity generated from renewable energy.
2. It has been developed jointly by International Atomic Energy Agency and India.

**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

**Q.11) Solution (a)**

**Statement Analysis:**

Statement 1	Statement 2
<b>Correct</b>	<b>Correct</b>
It is a platform for short-term trading of electricity generated from renewable energy.	Union Power Minister of India has recently launched Green Term Ahead Market (GTAM) in electricity.

**Q.12) With reference to the recently launched Climate Smart Cities Assessment Framework (CSCAF) 2.0, consider the following statements:**

1. It has been launched by NITI Aayog.
2. It intends to inculcate a climate-sensitive approach to urban planning and development in India.

**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

**Q.12) Solution (b)**

**Statement Analysis:**

Statement 1	Statement 2
<b>Incorrect</b>	<b>Correct</b>
Ministry of Housing & Urban Affairs has launched the Climate Smart Cities Assessment Framework (CSCAF) 2.0.	It intends to inculcate a climate-sensitive approach to urban planning and development in India.

**Q.13) Consider the following statements with reference to Energy Conservation Building Code:**

1. It has been launched by Energy Efficiency Services Limited
2. It is applicable to both private residential as well as commercial buildings.

**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

**Q.13) Solution (d)**

**Statement Analysis:**

Statement 1	Statement 2
<b>Incorrect</b>	<b>Incorrect</b>
Bureau of Energy Efficiency had launched the Energy Conservation Building Code (ECBC) 2007 to establish minimum energy performance standards for buildings in India.	Buildings intended for private residential purposes only are not covered by the Code.

**Q.14) Consider the following statements with reference to small-hydro energy projects in India:**

1. Hydropower plants of 200 MW or below capacity are classified as small hydropower projects.
2. Karnataka leads in the production of energy from small-hydro power plants.

**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

**Q.14) Solution (b)**

**Statement Analysis:**

Statement 1	Statement 2
<b>Incorrect</b>	<b>Correct</b>
In India, hydropower plants of 25 MW or below capacity are classified as small hydro, which have further been classified into micro (100kW or below), mini (101kW-2MW) and small hydro (2-25MW) segments.	Karnataka leads in the production of energy from small-hydro power plants. Karnataka is the first state in the country to set up a professionally managed corporation to plan, construct operate and maintain power generation projects.

**Q.15) With reference to the International Renewable Energy Agency (IRENA), consider the following statements:**

1. It is a multi-stakeholder organization encouraging academia and corporates in the field of renewable energy.
2. It facilitates technology transfer to provide clean, sustainable energy for the world's growing population.
3. India is a founding member of IRENA.

**Which of the statements given above is/are correct?**

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

**Q.15) Solution (b)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Incorrect</b>	<b>Correct</b>	<b>Correct</b>
The International Renewable Energy Agency is an intergovernmental organisation.	It is mandated to facilitate cooperation, advance knowledge, and promote the adoption and sustainable use of renewable energy, for the world's growing population.	India is one of the Founding Members of the International Renewable Energy Agency (IRENA).

**Q.16) With reference to 'Solar City', consider the following statements:**

1. They are cities that aim at ten per cent reduction in projected demand of conventional energy.
2. It includes only metro cities having a population above 10 million.

**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

**Q.16) Solution (a)**

**Statement Analysis:**

Statement 1	Statement 2
<b>Correct</b>	<b>Incorrect</b>
The Solar City aims at a minimum of 10% reduction in projected demand of conventional energy at the end of five years, through a combination of enhancing supply from renewable energy sources in the city and energy efficiency measures.	The cities may have a population between 0.50 lakh to 50 lakh, however, relaxation could be considered for special category States including the North-Eastern States and hilly States, Islands and Union Territories.

**Q.17) Which of the following are the causes of the Forest fire?**

1. Lightning
2. Volcanic eruption
3. Sparks from wheels of trains
4. Clearing of uncultivated land
5. Fires caused by recreational and tourist activities

**Select the correct answer using the code given below:**

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

**Q.17) Solution (d)****Statement Analysis:**

Statement 1	Statement 2	Statement 3	Statement 4	Statement 5
Correct	Correct	Correct	Correct	Correct
Lightning	Volcanic eruption	Sparks from wheels of trains	Clearing of uncultivated land	Fires caused by recreational and tourist activities

**Q.18) Consider the following statements-**

1. Green Rating for Integrated Habitat Assessment (GRIHA) is a national rating system for green buildings in India.
2. It was conceived by Bureau of Indian Standard and developed with Ministry of New and Renewable Energy.
3. It is mandatory to get GRIHA for all the commercial establishments in metropolitan cities.

**Which of the statements given above is/are correct?**

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

**Q.18) Solution (c)****Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
Green Rating for Integrated Habitat Assessment (GRIHA) is a national rating system for green buildings in India.	It was conceived by TERI and developed with Ministry of new and Renewable Energy.	It is not mandatory to get GRIHA rating for any of the establishments in India.

**Q.19) Which of the following are criteria for Heat Waves as given by Indian Meteorological Department (IMD)?**

1. Heat Wave need not be considered till the maximum temperature of a station reaches at least 40°C for Plains.
2. When the actual maximum temperature remains 45°C or more irrespective of normal maximum temperature, heat waves should be declared.
3. Heat Wave need not be considered till the maximum temperature of a station reaches at least 35°C for Hilly regions.

**Which of the statements given above is/are correct?**

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

**Q.19) Solution (a)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Correct</b>	<b>Correct</b>	<b>Incorrect</b>
Heat Wave need not be considered till the maximum temperature of a station reaches at least 40°C for Plains.	2. When the actual maximum temperature remains 45°C or more irrespective of normal maximum temperature, heat waves should be declared.	Heat Wave need not be considered till the maximum temperature of a station reaches at least 30°C for Hilly regions.

**Q.20) Consider the following statements regarding Bioremediation:**

1. Bioaugmentation is an Ex-situ bioremediation technique to enhance degradation process.
2. Bioreactor is an In-situ bioremediation technique to process the contaminated solid material.
3. The process of bioremediation can be monitored indirectly by measuring the Oxidation Reduction Potential or redox.

**Which of the above statements is/ are correct?**

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

**Q.20) Solution (c)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Incorrect</b>	<b>Incorrect</b>	<b>Correct</b>
Bioaugmentation is an In-situ bioremediation technique in which microorganisms are imported to a contaminated site to enhance degradation process.	Bioreactors is an Ex-situ bioremediation technique which involves the processing of contaminated solid material (soil, sediment, sludge) or water through an engineered containment system.	The process of bioremediation can be monitored indirectly by measuring the Oxidation Reduction Potential or redox.

**Q.21) Consider the following pairs-**

1. National Park - Only activities permitted by the chief wildlife warden are allowed.
2. Wildlife Sanctuary - Grazing by livestock and collection of firewood is allowed.
3. Biosphere reserve - Flora and fauna as well as human communities are granted protection.

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

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

**Q.21) Solution (d)****Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Correct</b>	<b>Correct</b>	<b>Correct</b>
National parks are given a greater degree of protection, with human activity greatly restricted. Only certain areas can be visited and only activities permitted by the chief wildlife warden of the state are allowed in the park.	In the wildlife Sanctuaries, people living there are allowed to do certain activities such as grazing by their livestock, collecting medicinal plants, firewood, etc.	Biosphere reserves are the areas meant for conservation of biodiversity. The biosphere reserves help to maintain the biodiversity and culture of that area. Protection is granted not only to the flora and fauna of the protected region, but also to the human communities who inhabit these regions.

**Q.22) With respect to International Union for Conservation of Nature’s Red List of Threatened Species, consider the following statements:**

1. It provides the most comprehensive information source on the global extinction risk status of animal, fungus and plant species.
2. The IUCN Green Status of Species complements the Red List by providing a tool for assessing the recovery of species’ populations and measuring their conservation success.
3. A species is fully recovered if it is present in all parts of its range, even those that are no longer occupied but were occupied prior to major human impacts/disruption.

**Which of the above statement/s is/are correct?**

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

**Q.22) Solution (d)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Correct</b>	<b>Correct</b>	<b>Correct</b>
The IUCN Red List of Threatened Species is the global standard for assessing the risk of extinction that individual species of animal, fungus, and plant faces.	The IUCN Green Status of Species complements the Red List by providing a tool for assessing the recovery of species’ populations and measuring their conservation success. In 2020, Green Status of Species assessments became an optional part of Red List assessments.	A species is fully recovered if it is present in all parts of its range, even those that are no longer occupied but were occupied prior to major human impacts/disruption.

**Q.23) Consider the following statements regarding seed banks:**

1. Seeds are stored under low temperatures that keep seeds dormant till they are needed for replanting.
2. Seed banks does not prevent the loss of Argo-biodiversity.
3. Seeds that are stored in seed banks can be made easily available to scientists and researchers who wish to study these seeds especially if such research could lead to improvement of crop production.

**Which of the above statement/s is/are correct?**

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

**Q.23) Solution (c)****Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Correct</b>	<b>Incorrect</b>	<b>Correct</b>
Seeds are stored under low temperatures that keep seeds dormant till they are needed for replanting.	Seed banks do prevent the loss of Argo-biodiversity.	Seeds that are stored in seed banks can be made easily available to scientists and researchers who wish to study these seeds especially if such research could lead to improvement of crop production.

**Q.24) Consider the following statements regarding Hangul:**

1. It is the state animal of Himachal Pradesh.
2. It is restricted to the Dachigam National Park.
3. IUCN status is Endangered.

**Which of the following statement is/are correct?**

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

**Q.24) Solution (b)****Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Incorrect</b>	<b>Correct</b>	<b>Incorrect</b>
The Kashmir stag also called Hangul is a subspecies of Central Asian Red Deer native to northern India. It is the state animal of Jammu & Kashmir.	It is restricted to the Dachigam National Park.	The Kashmir stag IUCN status is Critically Endangered.

**Q.25) Consider the following statements regarding Olive Ridley Turtles:**

1. They are found in warm and tropical waters Pacific Ocean only.
2. The coast of Andhra Pradesh in India is the largest mass nesting site for the Olive ridley.
3. They are best known for their unique mass nesting called Arribada.

**Which of the following statement is/are correct?**

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

**Q.25) Solution (c)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Incorrect</b>	<b>Incorrect</b>	<b>Correct</b>
They are found in warm waters of the Pacific, Atlantic and Indian oceans.	The coast of Odisha in India is the largest mass nesting site for the Olive-ridley.	They are best known for their unique mass nesting called Arribada.

**Q.26) Consider the following statements:**

1. The Biosphere Reserve is a part of the World Network of Biosphere Reserves under the UNESCO MAB program.
2. It encompasses three protected areas including the Gangau Sanctuary.
3. The major ethnic groups here are Gond, Khairuas, and Yadavas.
4. The region is the most sacrosanct pilgrimage for the followers of the Pranami sect world over.

**Which of the following biosphere reserves is being described above?**

- a) Panchmarhi Biosphere Reserve
- b) Simlipal Biosphere Reserve
- c) Achanakamar-Amarkantak Biosphere Reserve
- d) Panna Biosphere Reserve

**Q.26) Solution (d)**

**Explanation:**

**Biosphere reserve of India under the UNESCO MAB program:**

1. Nilgiri (First one to be included)
2. Gulf of Mannar

3. Sunderban
4. Nanda Devi
5. Nokrek
6. Pachmarhi
7. Similipal
8. Achanakmar – Amarkantak
9. Great Nicobar
10. Agasthyamala
11. Khangchendzonga (2018) and
12. Panna(2020).

**Panna Biosphere Reserve-**

- Twelve of the eighteen biosphere reserves are a part of the World Network of Biosphere Reserves, based on the UNESCO Man and the Biosphere (MAB) Programme list. Panna BR is the latest addition in 2020.
- The BR includes, 3 Protected Areas i.e., Panna National Park, Gangau & Ken-Gharial sanctuaries.
- The major ethnic groups here are Gond, Khairuas, and Yadavas.
- The region is the most sacrosanct pilgrimage for the followers of the Pranami sect world over.

**Q.27) If the population of any species has been reduced by more than 90% over the last 10 years and its population size is less than 50 mature individuals, it will be categorized as:**

- a) Endangered (EN)
- b) Vulnerable (VU)
- c) Critically Endangered (CR)
- d) Extinct (EX)

**Q.27) Solution (c)**

**Explanation:**

**Critically Endangered Category:**

A species is categorized as Critically Endangered when it meets any of the following criteria:

1. Reduction in the population of more than 90% over the last 10 years.
2. The population size is less than 50 mature individuals.
3. Quantitative analysis showing the probability of extinction in the wild in at least 50% in their 10 years.

**Q.28) Which of the following Biosphere Reserves is *incorrectly* matched with the state in which it is located?**

- Dehang- Dibang - Arunachal Pradesh
- Pachmarhi - Odisha
- Panna - Madhya Pradesh
- Nokrek – Meghalaya

**Q.28) Solution (b)**

**Statement Analysis:**

a)	b)	c)	d)
<b>Correct</b>	<b>Incorrect</b>	<b>Correct</b>	<b>Correct</b>
Dehang-Dibang - Arunachal Pradesh	Panchmarhi - Madhya Pradesh	Panna - Madhya Pradesh	Nokrek - Meghalaya

**Q.29) Consider the following statements:**

- This national park is being popularized as the Tiger reserve.
- Hard Ground Barasingha is found exclusively in this National Park.
- This national park is best known for its evergreen Sal forests.

**Choose the National Park that has the above key features:**

- Jim Corbett Tiger Reserve
- Kanha National Park
- Nagarhole National Park
- Gugamal National Park

**Q.29) Solution (b)**

**Explanation:**

**Kanha National Park-**

- Kanha National Park is nestled in the Maikal range of Satpuras in Madhya Pradesh, the heart of India that forms the central Indian highlands.
- Spreading across two revenue districts the Mandala and the Kalaghat, Kanha National Park was declared a reserve forest in 1879 and revalued as a wildlife sanctuary in 1933. Its position was further upgraded to a national park in 1955.
- The Kanha National Park is the ideal home for wide ranges of wild creatures; right from the mighty tigers to the most populated Barasingha and the countless species of plants, birds, reptiles and insects.

- This reserve has fascinated many travelers around the corners of the world with its well-developed infrastructure specially meant for them. The best location here to enjoy the most is the Bammi Dadar, also known as the Sunset Point.

**Q.30) This biosphere reserve of India is located at the southernmost end of the Western Ghats. It consists mostly of tropical forests. Three Wildlife Sanctuaries, Shendurney, Peppara and Neyyar, are located in this reserve. The reserve is home to Kani tribe of Tamil Nadu and Kerala.**

**Which of the following biosphere reserve has these characteristics?**

- Nilgiri
- Agasthyamala
- Gulf of Mannar
- Silent valley

**Q.30) Solution (b)**

**Explanation:**

**Agasthyamala Biosphere Reserve-**

- The Agasthyamala Biosphere Reserve is located in the southernmost end of the Western Ghats.
- Western Ghats and incorporates peaks towering 1,868 m above sea level. Consisting mostly of tropical forest, the site is home to 2,254 species of higher plants including about 400 that are endemic. It is also a unique genetic reservoir of cultivated plants, in particular cardamom, jamune, nutmeg, pepper and plantain. Three wildlife sanctuaries, Shendurney, Peppara and Neyyar, are located in the site, as well as the Kalakad Mundanthurai Tiger reserve.
- The reserve is home to Kani tribes from both Tamil Nadu and Kerala, which number in total approximately 30,000 inhabitants. The community uses a wide variety of biological resources for sustenance but is rarely involved in their commercialization.

**Q.31) With reference to 'Zoological Survey of India', consider the following statements:**

1. It was established to promote survey, exploration and research in the field of wildlife of India.
2. It conducts Tiger Census every four years.

**Which of the statements given above is/are correct?**

- 1 only
- 2 only

- c) Both 1 and 2
- d) Neither 1 nor 2

**Q.31) Solution (a)****Statement Analysis:**

Statement 1	Statement 2
<b>Correct</b>	<b>Incorrect</b>
The Zoological Survey of India (ZSI) was established on 1st July, 1916 to promote survey, exploration and research leading to the advancement in our knowledge of various aspects of exceptionally rich wildlife of the erstwhile 'British Indian Empire'.	The All India Tiger Estimation done quadrennially is steered by the National Tiger Conservation Authority with technical backstopping from the Wildlife Institute of India and implemented by State Forest Departments and partners.

**Q.32) With respect to the 'National Board for Wildlife (NBWL)', consider the following statements:**

1. It was established in 1952 as an advisory body.
2. The Minister of Environment, Forest & Climate Change is the Chairman of this Body.
3. No alternation of boundaries in national parks and wildlife sanctuaries can be done without the approval of the NBWL.

**Which of the statement given above is/are correct?**

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

**Q.32) Solution (c)****Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Incorrect</b>	<b>Incorrect</b>	<b>Correct</b>
As per the amendment to the Wildlife (Protection) Act, 1972 in 2002, a provision was incorporated for the constitution of the National Board for Wildlife, replacing the Indian Board for Wildlife.	The NBWL is chaired by the Hon'ble Prime Minister.	No alternation of boundaries in national parks and wildlife sanctuaries can be done without the approval of the NBWL.

**Q.33) Consider the following statements with respect to in-situ conservation:**

1. It includes conservation of only terrestrial animals and plants.
2. Biosphere reserves, wildlife sanctuaries are part of in-situ conservation.

**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

**Q.33) Solution (b)**

**Statement Analysis:**

Statement 1	Statement 2
<b>Incorrect</b>	<b>Correct</b>
The in-situ approach includes the protection of a typical ecosystem through a network of protected areas on land or sea.	The biosphere reserves, national parks and wildlife sanctuaries are part of in-situ conservation.

**Q.34) Which of the following is/are the advantages of captive breeding of animal species?**

1. Increase the populations of rare and endangered species.
2. Develop desired characteristics or traits.
3. Protection of their natural habitat.

**Select the correct answer using the code given below:**

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

**Q.34) Solution (b)**

**Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Correct</b>	<b>Correct</b>	<b>Incorrect</b>
It helps to increase the populations of rare and endangered species of animals and to save these animals from extinction.		This technique helps us to raise the population of wild animals up to the desired level. This technique is useful in

		developing desired characters or traits in organisms.
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**Q.35) Consider the following animal conservation projects of India:**

1. Project Crocodile
2. Project Tiger
3. Project Snow-Leopard
4. Project Elephant

**Arrange the above projects in chronological order as and when they were started by the Government?**

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

**Q.35) Solution (b)**

**Statement Analysis:**

<b>2</b>	<b>1</b>	<b>4</b>	<b>3</b>
<b>Project Tiger</b>	<b>Project Crocodile</b>	<b>Project Elephant</b>	<b>Project Snow-Leopard</b>
1972	1975	1992	2009

**Q.36) With reference to Nokrek Biosphere Reserve, consider the following statements:**

1. Nokrek is the highest peak of the Garo hills.
2. It has been recognized under the Man and Biosphere Reserve program of UNESCO.
3. Brahmaputra river flows through it.
4. Citrus indica or wild orange is found at this place.

**Which of the statements given above are correct?**

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

**Q.36) Solution (d)**

**Statement Analysis:**

<b>Statement 1</b>	<b>Statement 2</b>	<b>Statement 3</b>	<b>Statement 4</b>
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Correct	Correct	Incorrect	Correct
Nokrek is the highest peak of the Garo hills.	It has been recognized under the Man and Biosphere Reserve program of UNESCO.	The Ganol, Dareng and Simsang rivers flows through it.	Citrus indica or wild orange is found at this place.

**Q.37) Arrange the following national parks and wildlife sanctuary from North to South?**

1. Point Calimere Wildlife and Bird Sanctuary
2. Bhitarkanika National Park
3. Coringa Wildlife Sanctuary
4. Pichavaram Bird Sanctuary

**Select the correct answer using the code given below:**

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

**Q.37) Solution (b)**

**Statement Analysis:**

2	3	4	1
<b>Bhitarkanika National Park</b>	<b>Coringa Wildlife Sanctuary</b>	<b>Pichavaram Bird Sanctuary</b>	<b>Point Calimere Wildlife and Bird Sanctuary</b>
Odisha	Andhra Pradesh	Tamil Nadu	Tamil Nadu along the Palk Strait.

**Q.38) Recently, a bioluminescent species of mushroom ‘Roridomyces phyllostachydis’ was found in India. In this context, consider the following statements regarding bioluminescence:**

1. Bioluminescence is the production and emission of light by a living organism through enzymes.
2. In nature bioluminescence is found in both aquatic and terrestrial environments.

**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

**Q.38) Solution (c)****Statement Analysis:**

Statement 1	Statement 2
<b>Correct</b>	<b>Correct</b>
Bioluminescence is the production and emission of light by a living organism through enzymes.	In nature bioluminescence is found in both aquatic and terrestrial environments.

**Q.39) Consider the following pairs:**

States/UT	State Animal
1. West Bengal	Bengal Tiger
2. Uttarakhand	Musk Deer
3. Delhi	Fishing Cat

**Which of the pairs given above is/are correct?**

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

**Q.39) Solution (b)****Statement Analysis:**

Statement 1	Statement 2	Statement 3
<b>Incorrect</b>	<b>Correct</b>	<b>Incorrect</b>
West Bengal – Fishing Cat	Uttarakhand – Musk Deer	Delhi - Nilgai

**Q.40) Consider the following statements regarding Important Bird Areas (IBAs):**

- 1. They are declared by Birdlife International.
- 2. Forty percent of India's IBAs fall outside the Protected area network.

**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

**Q.40) Solution (c)**

**Statement Analysis:**

<b>Statement 1</b>	<b>Statement 2</b>
<b>Correct</b>	<b>Correct</b>
Important Bird Areas (IBA) are declared by Birdlife International.	Forty percent of India's IBAs fall outside the Protected area network and thus form an important tool for landscape-level conservation planning.