

IASbaba's Daily Prelims Test [Day 53]

Topics- S&T, Environment and Current Affairs

1. Consider the following statements regarding newly launched 'Vanbandhu Kalyan Yojana'

1. It covers all tribal people and all areas with tribal population across the country
2. It focuses on improving the quality of education of Tribal people
3. One of the main objectives is to address the infrastructural gap with focus on quality

Select the correct answer using codes

1. 1, 2 and 3
2. 2 and 3
3. 1 and 2
4. Only 1

Solution- 1

VKY a strategic process. It aims at creating enabling environment for need based and outcome oriented holistic development of the tribal people. This process envisages to ensure that all the intended benefits of goods and services under various programmes/schemes of Central as well as State Governments actually reach the target groups by convergence of resources through appropriate institutional mechanism.

Scope: It covers all tribal people and all areas with tribal population across the country.

Objectives

1. Improving the quality of life in tribal areas
2. Improving the quality of education
3. Qualitative and sustainable employment for tribal families
4. Bridging infrastructure gaps with focus on quality
5. Protection of tribal culture and heritage

2. The Living Planet Report is the world's leading, science-based analysis on the health of our planet and the impact of human activity. It is released by

1. United Nation Environment Program (UNEP)
2. WWF
3. UNESCO
4. IUCN

Solution- 2

3. Match the following military exercises of India

- | | |
|---------------------|----------------|
| 1. Yudh Abhyas | India-USA |
| 2. Nomadic Elephant | India-Mongolia |
| 3. EKUVERIN | India-UK |
| 4. Exercise Malabar | India-USA |

Select the correct match

1. 1, 2, 3 and 4
2. 2 and 3
3. 1 and 2
4. 1, 2 and 4

Solution- 4

EKUVERIN- India- Maldives

INDIA AND U.S

Malabar: It is Naval exercise takes place in India and U.S. alternatively

Yudh Abhyas: It is Army exercise takes place in India alternatively

Red flag: It is Air Force exercise takes place in only in Nevada Desert of U.S.

Cope: Its Army exercise in U.S

INDIA FRANCE: - VARUNA: Joint exercise in Air Force

INDIA AND U.K. - GARUDA: Air Force

INDIA AND MALDIVES- EKUVERIN: IN all forms but mostly in Army

INDIA AND MANGOLIA- NOMADIC ELEPHANT: Mostly in Army

INDIA AND CHINA- HAND IN HAND: In all forms

INDIA AND SRI LANKA- SLINEX: Joint exercise in Navy

INDIA AND SOUTH EAST ASIA (ESPECIALLY SINGAPORE)- SIMBEX: Joint exercise in Navy

INDIA AND THAILAND- Maitree: focus being on counter-insurgency operations in urban and rural terrain

INDIA and RUSSIA- INDRA 2012 --- anti terrorism activity

4. Two pieces of conductor of same material and of equal length are connected in series with a cell. One of the two pieces has cross-sectional area double that of the other. Which one of the following statements is correct in this regard?

1. The thinner one will have strong current passing through it
2. The thicker one will have strong current pass through it
3. Both will have equal current but thinner one will have more heat
4. Both will have equal current but thicker one will have more heat

Answer- 3

5. Which one among the following is a strong smelling agent added to LPG cylinder to help in the detection of gas leakage?

1. Thioethanol
2. Ethanol
3. Acetone
4. Methanol

Answer- 1

6. Gravitational force shares a common feature with electromagnetic force. In both cases, the force is

1. Between massive and neutral objects
2. A short range
3. A long range
4. Between charged object

Answer- 3

7. Arrange the following hills of southern India from north to south

1. Nilgiri
2. Cardamom
3. Nallamala
4. Anaimalai

Select the correct answer using the code given below

1. 3-1-4-2
2. 2-3-4-1
3. 3-2-4-1
4. 1-2-3-4

Answer-1

8. Three important rivers of the Indian subcontinent have their source near the Manasarovar Lake in the Great Himalayas. Which among the following are the rivers?

1. Indus, Sutlej and Beas
2. Brahmaputra, Yamuna and Indus
3. Indus, Sutlej and Brahmaputra
4. Sutlej, Jhelum and Yamuna

Answer- 3

9. Match the following correctly

List I (Island)

1. Continental island
2. Coral island
3. Volcanic island
4. Mountains island islands

List II (Location)

- Mauritius
- Medagascar
- Andaman-Nicobar
- Maldives

Match the correct answer

1. 1, 2 and 4
2. 2 and 4
3. 1 and 2
4. None

Answer- 4

Mountains island islands- Andaman and Nicobar

Coral island- Maldives

10. An association between roots of higher plants and fungi is called

1. Fern
2. Lichens
3. Mycorrhizae
4. Blue Green Algae

Answer- 3

11. Consider the following

1. Plants of this group are diploid.
2. They are well adapted to extreme conditions.
3. They grow bearing sporophylls in compact structures called cones.

The group in reference is

1. Monocots
2. Dicots
3. Pteridophytes
4. Gymnosperms

Answer- 4

12. Which one of the following sets of animals share a four chambered heart?

1. Amphibian, Reptiles, Birds
2. Crocodiles, Birds, Mammals
3. Crocodiles, Lizards, Turtles
4. Lizards, Mammals, Birds

Answer- 2

13. Protein is an important substance found in every cell in the human body. It has many functions including

1. Repair and maintenance of body tissue
2. Major source of energy
3. Creation of hormones
4. Formation of antibodies
5. Transportation and storage of molecules in the body

Select the correct answer using code

1. 1, 2 and 5
2. 2 and 5
3. 1, 2, 3 and 4
4. 1, 2, 3, 4 and 5

Answer- 4

14. Match the element with its associated functions/roles and choose the correct option among given below

- | | |
|---------------|---|
| 1. Boron | i. splitting of H ₂ O to liberate O ₂ during photosynthesis |
| 2. Manganese | ii. needed for synthesis of auxins |
| 3. Molybdenum | iii. component of nitrogenase |
| 4. Zinc | iv. Pollen germination |
| 5. Iron | v. component of ferredoxin |

Chose the correct code

1. 1-iv, 2-i, 3-iii, 4-ii and 5-v
2. 1-iii, 2-iv, 3-i, 4-v and 5-ii
3. 1-iv, 2-ii, 3-iv, 4-iii and 5-i
4. 1-iv, 2-iii, 3-i, 4-ii and 5-v

Answer- 1

15. Consider the following

1. Space Technology
2. Telemetry
3. Magnetic levitation
4. Blood Banking
5. Surgery
6. X-Ray

Cryogenics find application in which of the above?

1. 1, 2, 3 and 5
2. 1, 3, 4, and 6
3. 1, 4, 5 and 6
4. 1, 3, 4 and 5

Answer- 4

Telemetry and X-ray – No cryogenic application here