



Prelims Practice Questions 19-09-2018

1. Consider the following statements about Cyclotrons

1. They are useful devices to predict cyclones especially in tropical countries
2. Cyclone- 30 is the biggest cyclotron which was inaugurated recently in India

Which of the statement(s) is/ are true?

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

Answer : b

- Cyclotrons are used to produce radioisotopes for diagnostic and therapeutic use for cancer care.
- Cyclone-30 facility is at Variable Energy Cyclotron Centre (VECC), Kolkata, a Department of Atomic Energy (DAE) unit
- This facility will provide for affordable radio isotopes and related radiopharmaceuticals for the entire country especially for Eastern India
- It also have export potential for Germanium-68/Gallium-68 generator for in-situ production of Gallium-68 and Palladium-103 isotopes, used for breast cancer diagnosis and prostate cancer treatment, respectively.

2. Consider the following statements with respect to Defence sector in India

1. Akash is a medium range surface- air missile that is indigenously developed in India
2. The Defence Acquisition Council is the apex body which approves the procurement of any Defence Equipment

Which of the statement(s) is/ are true?

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

Answer : c

Pursuing the goal of indigenisation and self-reliance, the DAC recently approved the procurement of two Regiments of Akash Missile Systems under '**Buy (Indian)**' category from Bharat Dynamics Limited (BDL)

3. Consider the following statements about e-Sahaj

1. It is an online portal developed for grant of Security Clearance in sensitive sectors

2. Ministry of External Affairs is the nodal ministry for granting Security Clearance before the issue of any kind of licence, permission, contract etc, to companies/ bidders/ individuals by the administrative Ministry.

Which of the statement(s) is/ are true?

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

Answer : a

- Ministry of Home Affairs is the nodal Ministry for security clearances in certain sensitive sectors before issue of licence/permit, permission, contract etc, to companies/ bidders/individuals by the administrative Ministry.
- The objective of national security clearance is to evaluate potential security threats, including economic threats, and provide risk assessment before clearing investment and project proposals in key sectors.

4. Consider the following statements about Zonal Councils

- 1. It is a Constitutional body
- 2. There are at present five Zonal Councils
- 3. Each Zonal Council has a Standing Committee consisting of Chief Secretaries of the member States of their respective Zonal Councils.

Which of the given statement(s) is/ are true?

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



Answer : b

- A zonal council is not a constitutional body. The five Zonal Councils were set up by The States Re-organisation Act, 1956, for central, norther, easter, western and southern zones.
- The North-eastern states have a seperate council called the North Eastern Council set up under the North Eastern Council Act, 1972
- Union Home Minister is the chairman of the Zonal Councils.
- Each Zonal Council has a Standing Committee consisting of Chief Secretaries of the member States of their respective Zonal Councils.

5. Consider the following statements about International Astronomical Union

- 1. It is an inter-governmental body with an aim to foster Astronomical Research
- 2. The IAU serves as the internationally recognized authority for assigning designations to celestial bodies and surface features on them

Which of the statement(s) is/ are true?

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

Answer : b

It is not an inter-governmental body. Its members are professional astronomers from across the world.

Functions of IAU

- definition of fundamental astronomical and physical constants
- unambiguous astronomical nomenclature
- promotion of educational activities in astronomy
- informal discussions on the possibilities for future international large-scale facilities

Furthermore, the IAU serves as the internationally recognized authority for assigning designations to celestial bodies and surface features on them.

6. Consider the following pairs

Term	Definition
1. Oort Cloud	- Giant spherical shell surrounding the Sun, planets, and Kuiper Belt Objects
2. Kuiper Belt	- A region containing icy bodies beyond Neptune
3. Asteroids	- Minor planets found in Kuiper Belt

Which of the pair(s) is/are correctly matched?

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

Answer : a



Asteroids are located in between the orbits of Mars and Jupiter.

7. Consider the following statements about Goalkeepers Data Report 2018

1. It was released by the United Nations, in regards with its goal of reducing poverty.
2. It identifies sub-Saharan Africa as the place where more than 80% of world's extremely poor are to live by 2050
3. According to the report, the percentage of people who live in extreme poverty has drastically come down in South Asia

Which of the statement(s) is/are true?

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

Answer : c

The Report was given by Bill and Melinda Gates Foundation, mainly to track the annual progress of the United Nations' Sustainable Development Goals (SDGs) laid down in 2015.

In South Asia, people living below the extreme poverty line has come down from 45% in 1990 to just 1% today, while in sub-Saharan Africa it has merely declined from 59% to

22% in this period.

This has shifted “the geography of poverty” to sub-Saharan Africa, which should now be the focus of the “third wave of poverty reduction” until 2050.

8. Consider the following statements about Arbitration and Conciliation

1. Conciliation calls for appointment of an independent 'third party' whose final decision is binding on both the parties
2. There is no power to enforce a decision in an Arbitration process

Which of the statement(s) is/ are true?

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

Answer : d

Arbitration is a dispute settlement process in which an impartial third party is appointed to study the dispute and hear both the parties to arrive at a decision which is binding on both the parties.

Conciliation is a method of resolving a dispute, wherein an independent person helps the parties to arrive at negotiated settlement. However, a conciliator do not have the power to enforce his/her decision.

9. The 'Prescription for Poverty' report is released by

- a. Oxfam
- b. G 20
- c. World Economic Forum
- d. World Trade Organisation

Answer : a

It is an Oxfam report.

It says '**The world's biggest pharmaceutical companies appear to be dodging an estimated \$3.8 billion in tax per year across 16 countries**'

10. Consider the following statements about Mudumalai Tiger Reserve

1. It is located on the tri-junction of the states of Kerala, Karnataka, and Tamil Nadu
2. It is part of the Nilgiri Biosphere Reserve
3. It is home to tall grasses called as 'Elephant Grass'

Which of the statement(s) is/ are true?

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only

d. 1, 2 and 3

Answer : d

