



### **Daily Current Affairs Prelims Quiz 16-04-2022 - (Online Prelims Test)**

1) The term Poison Pill recently in news is associated with which of the following statements?

- a. A defense strategy used by a target firm to prevent a potential hostile takeover by an acquiring company.
- b. It is a discrete probability distribution that expresses the probability of a given number of events occurring in a fixed interval of time.
- c. Pill used against poisonous substances.
- d. None of the above.

Answer : a

#### **Poison Pill**

- The term poison pill refers to a defense strategy used by a target firm to prevent or discourage a potential hostile takeover by an acquiring company.
- Potential targets use this tactic in order to make them look less attractive to the potential acquirer.
- Although they're not always the first—and best—way to defend a company, poison pills are generally very effective.
- Poison pills allow existing shareholders the right to purchase additional shares at a discount, effectively diluting the ownership interest of a new, hostile party.

2) Consider the following statements regarding respiratory airway secretory cells (RASCs):

1. It is a type of cell that resides within the human lungs and plays key role in human lung diseases.
2. They have stem-cell-like properties enabling them to regenerate other cells that are essential for the normal functioning of alveoli.

Which of the above statement(s) is/are correct?

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

Answer : c

#### **Respiratory airway secretory cells (RASCs)**

- It is a new type of cell that resides deep within human lungs and may play a key role in human lung diseases.
- The cells line tiny airway branches, deep in the lungs, near the alveoli structures where oxygen is exchanged for carbon dioxide.
- The scientists showed that RASCs have stem-cell-like properties enabling them to regenerate other cells that are essential for the normal functioning of alveoli.
- They also found evidence that cigarette smoking and the common smoking-related ailment

called chronic obstructive pulmonary disease (COPD) can disrupt the regenerative functions of RASCs.

3) Consider the following statements regarding the Bernardinelli-Berstein comet:

1. It is the largest comet ever discovered and is travelling towards the earth.
2. The comet originates from the Oort cloud, a distant region of the solar system.

Which of the above statement(s) is/are correct?

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

Answer : b

### **Bernardinelli-Bernstein Comet**

- National Aeronautics and Space Administration's (NASA) Hubble Space Telescope has confirmed that the huge Bernardinelli-Bernstein comet is indeed the largest icy comet nucleus ever seen by astronomers.
- This comet has an estimated diameter of almost 129 kilometres.
- The nucleus is around 50 times larger than that of most known comets, and its mass is estimated to be around 500 trillion tonnes.
- The Bernardinelli-Berstein comet has been travelling towards the sun for over a million years and it is believed to have originated in the Oort Cloud, a distant region of the solar system that is predicted to be the source of most comets.
- The Bernardinelli-Berstein comet follows a 3-million-year-long elliptical orbit and has an estimated temperature of minus 348 degrees Fahrenheit - warm enough to sublimate carbon monoxide from the surface to produce the dusty coma.

4) Identify the countries bordering the Republic of Congo:

1. Rwanda
2. Burundi
3. Kenya
4. Sudan
5. South Sudan

Choose the correct option.

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

Answer : c

### **Democratic Republic of Congo**



5) Consider the following statements:

1. This climate region is dominated by Maritime Tropical air masses.
2. The temperature is uniform throughout the year and there is no winter.
3. The double rainfall peaks coincides with the equinoxes and there is no month without rain.

Identify the climate type.

- a. Equatorial Climate
- b. Tropical Wet Dry Climate
- c. Monsoon Climate
- d. Temperate Grassland Climate

Answer : a

### Equatorial Climate

- It is dominated by Maritime Tropical air masses.
- The temperature is uniform throughout the year.
- There is no winter and cloudiness and heavy precipitation moderate the daily temperature.
- The diurnal range of temperature is small, and so is the annual range.
- There is no month without rain and the monthly average is above 6 cm most of the times.
- The double rainfall peaks coinciding with the equinoxes are a characteristic feature of equatorial climates not found in any other type of climate.