



Daily Current Affairs Prelims Quiz 15-04-2025 (Online Prelims Test)

1) Which of the following statements accurately describe Signet Ring Cell Carcinoma (SRCC)?

1. It is a rare and highly lethal form of colon cancer.
2. It most frequently occurs in the Respiratory tract.
3. It is the most common subtype of colon cancer worldwide.

How many of the statements given above are correct?

- a. Only one
- b. Only two
- c. All three
- d. None of the above

Answer : a

Signet Ring Cell Carcinoma (SRCC)

- It is a ***rare form of colon cancer (CRC)*** and is considered one of the deadliest subtypes of the disease.
- Colon cancer, also known as colorectal cancer, is a type of cancer that originates in the large intestine (colon) or rectum.
- It gets its name from the signet ring-like appearance (a finger ring with a flat top) of its cancer cells under a microscope.
- It most commonly develops in the ***gastrointestinal tract***, particularly the stomach, but can also occur in the colon and other organs. It spreads quickly.
- **Symptoms** - Indigestion, Abdominal pain, Nausea and vomiting, Diarrhea, Bloody stools, Fatigue, Joint pain, Pallor (paleness, fast heartbeat and trouble breathing).

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2) Consider the following statements regarding the velvet worm species

1. It belongs to the phylum Onychophora and is one of the oldest living fossils globally.
2. It was first documented in Siang Valley in December 1911.

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

Answer : c

Velvet worm species

- **First discovered in** - December 1911 in Siang Valley.
 - After that there have been no documented records of it from India.
- The molecular analysis of *T. williamsoni* revealed that South Asian onychophorans diverged from them
 - Neotropical counterparts, those found in Central and South America, as well as
 - Southern Mexico and the Caribbean approximately 237 million years ago.
- A group of scientists has announced the rediscovery of a long-forgotten species of velvet worms (phylum Onychophora), which are among the oldest living fossils on the planet, after a gap of 111 years.
- It is an ***ancient velvet worm species*** (phylum Onychophora), one of the oldest living fossils in the world.

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3) Consider the following statements regarding sea lions:

1. Sea lions belong to the Pinniped group, characterized as fin-footed aquatic mammals.
2. Their distribution includes the Pacific Ocean, Bering Sea, and Falkland Islands in the southern Atlantic Ocean.

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

Answer : c

Sea Lions

- **Sea lions** - They are ***large marine mammals*** belonging to the clad *Pinnipeds*.
- **Pinnipeds** are a group of aquatics, fin-footed mammals that include seals, sea lions, and walruses.
- **Scientific name** - *Otariinae*, means "little ear" in Greek, refers to their small external ear flaps.
- **Species of sea lion**
 - Australian sea lion
 - Galapagos sea lion
 - New Zealand sea lion
 - Steller sea lion
 - South American sea lion
 - Californian sea lion
- **Distribution** - Pacific Ocean, Bering Sea to southern South America, Falkland Islands in the southern Atlantic Ocean, and others living around Australia and New Zealand.

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4) Consider the following statements regarding the Beijing Declaration and Platform for Action (BPfA)

1. It is an international agenda focused on achieving gender equality.
2. It was adopted at the 4th World Conference on Women in 1995, marking the 50th year of the UN's founding.

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

Answer : c

Beijing Declaration and Platform for Action (BPfA)

- It is a landmark international agenda outlining an action plan for gender equality.
- **Adoption** – It was adopted in 1995 at the 4th World conference on women (also 50th year of UN foundation).
- **12 Critical areas** – The declaration focuses on 12 critical areas of concern to advance gender equality globally.

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5) The term Cu-Phen recently seen in news is related to,

- a. A new type of leather tanning chemical
- b. Nano-sized particles mimicking natural enzymes
- c. A synthetic polymer for textile industries
- d. A biofertilizer for sustainable agriculture

Answer : b

Cu-Phen

- Indian scientists at CSIR-Central Leather Research Institute (CLRI), Chennai have recently developed specialized Nano-sized particles called Cu-Phen that mimic the function of natural enzymes in our bodies.
- **Enzymes** – Are nature's catalysts, essential biological molecules that speed up chemical reactions vital for life.
- **Artificial enzymes** – Also known as nanozymes, which mimic the natural functions of enzymes using nanomaterials.
- These nanozymes hold immense potential in fields ranging from medicine to energy.

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