

Que-1 With reference to Fast radio burst (FRB), consider the following statements

- 1- Fast radio bursts are extremely bright radio pulses from distant galaxies.
- 2- They last for only a few milliseconds.
- 3- Decaying stars form Fast Radio Bursts and produce so much energy in so little time.

Which of the following given above is/are correct

- | | |
|-----------------|-----------------|
| a) 1 and 2 only | b) 2 only |
| c) 1, 2 and 3 | d) 2 and 3 only |
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Que-2 With reference to International Atomic Energy Agency (IAEA), consider the following statements

- 1- It is an international organization that seeks to promote the peaceful use of nuclear energy, and to inhibit its use for any military purpose, including nuclear weapons.
- 2- Based in Geneva..
- 3- Established independently of the United Nations through its own international treaty, the IAEA Statute.

Which of the following given above is/are correct

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|-----------------|-----------------|
| a) 1 and 2 only | b) 1 and 3 only |
| c) 1, 2 and 3 | d) 3 only |
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Que-3 Consider the following statements about A rhino reintroduction programme under the Indian Rhino Vision 2020

- 1- It was started in 2020.
- 2- This entailed the translocation of rhinos from Kaziranga National Park and Pobitora Wildlife Sanctuary besides orphans hand-reared at the Centre for Wildlife Rehabilitation and Conservation at Kaziranga.

Which of the following given above is/are correct

- | | |
|-----------------|--------------------|
| a) 1 only | b) 2 only |
| c) Both 1 and 2 | d) Neither 1 nor 2 |
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Que-4 With reference to World Investment Report, recently released by United Nations Conference on Trade and Development (UNCTAD), consider the following statements

- 1- India jumped one notch up to attain the seventh position among top recipients of foreign direct investment (FDI) in calendar year 2021.
- 2- FDI in China grew 21% and in Southeast Asia by 44% but South Asia went the other way, falling 26% as flows to India shrank to \$45 billion.
- 3- The top recipient of FDI was the US followed by China and Russia.

Which of the following given above is/are correct

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

Que-5 The Prime Minister had recently inaugurated the headquarters of the Indian National Space Promotion and Authorisation Centre (IN-SPACe) at

- a) Pune
b) Bengaluru
c) New Delhi
d) Ahmedabad

Que-6 What is Amyloidosis?

- 1- Amyloidosis is a rare disease that occurs when an abnormal protein, called amyloid, builds up in one's organs, affecting their shape and functioning.
- 2- Amyloid deposits can build up in the heart, brain, kidneys, spleen and other parts of the body, leading to life-threatening conditions like organ failure.
- 3- Amyloidosis can only be a secondary to a different health condition.

Which of the following given above is/are correct

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

Que-7 With reference to Greenfield project, consider the following statements

- 1- A Greenfield project is one which is not constrained by prior work.
- 2- It is constructing on unused land where there is no need to remodel or demolish an existing structure.
- 3- Those facilities which are modified/upgraded are called brownfield projects.

Which of the following given above is/are correct

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

Que-8 Consider the following statements about Hypogonadism

- 1- It is a condition caused by the deficiency of the male sex hormone, testosterone.
- 2- Testosterone replacement therapy is the standard treatment for hypogonadism, which can cause sexual dysfunction, weakening of bones and muscles, and reduced quality of life.
- 3- Hypogonadism, commonly referred to by the symptom "low testosterone" or "Low T," can also decrease other hormones secreted by the gonads.

Which of the following given above is/are correct

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

ANSWER

1- (a)

- FRBs are bright flashes of light that appear for a few milliseconds and then vanish. Since the first FRB was discovered in 2007, 140 more were discovered until June 2021.

2- (b)

- The IAEA was established as an autonomous organization on 29 July 1957. Though established independently of the United Nations through its own international treaty, the IAEA Statute, the IAEA reports to both the United Nations General Assembly and Security Council.
- Based in Vienna, Austria.

3- (b)

- It was started in 2006.

4- (a)

- India jumped one notch up to attain the seventh position among top recipients of foreign direct investment (FDI) in calendar year 2021 even as flows shrank to \$45 billion from \$64 billion in 2020.

- Outward FDI from South Asia, mainly from India, rose 43% to \$16 billion.
- Flows to India declined to \$45 billion. However, a flurry of new international project finance deals were announced in the country: 108 projects, compared with 20 projects on average for the last 10 years. The largest number of projects (23) was in renewables. Large projects include the construction in India of a steel and cement plant for \$13.5 billion by Arcelormittal Nippon Steel (Japan) and the construction of a new car manufacturing facility by Suzuki Motor (Japan) for \$2.4 billion.
- The top 10 economies for FDI inflows in 2021 were the US, China, Hong Kong, Singapore, Canada, Brazil, India, South Africa, Russia and Mexico but among them only India witnessed a decline in inflows.

5- (d)

- PM inaugurates headquarters of IN-SPACe at Bopal, Ahmedabad.
- The establishment of IN-SPACe was announced in June 2020. It is an autonomous and single window nodal agency in the Department of Space for the promotion, encouragement and regulation of space activities of both government and private entities. It

also facilitates the usage of ISRO facilities by private entities.

hormones secreted by the gonads including progesterone, DHEA, anti-Müllerian hormone, activin, and inhibin.

6- (a)

- Amyloid isn't normally found in the body, but can be formed from several different types of proteins. Some varieties of amyloidosis occur in association with other diseases. These types may improve with treatment of the underlying disease. Some varieties of amyloidosis may lead to life-threatening organ failure.
- Amyloidosis may be secondary to a different health condition or can develop as a primary condition as well. Sometimes, it is due to a mutation in a gene, but usually, the cause of amyloidosis remains unknown.
- Light-chain (AL) amyloidosis is the most common type in developed countries which can affect the kidneys, spleen, heart, and other organs. People with conditions such as multiple myeloma or a bone marrow illness are more likely to have AL amyloidosis.

7- (c)

8- (c)

- Hypogonadism, commonly referred to by the symptom "low testosterone" or "Low T," can also decrease other