

TARGET PRELIMS- 2019

TEST- 19

1. Which of the following is/are true regarding the National Pharmaceutical Pricing Authority (NPPA)?

1. It is an independent Regulator for pricing of drugs and to ensure availability and accessibility of medicines at affordable prices.
2. It is under the Ministry of Chemicals & Fertilizers.

Select the correct statements using given code below:

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

2. Match the following statements regarding Geographical Indication (GI)

GI product		Geographical Location
1. Nilambur Teak	:	Tamil Nadu
2. Beed Custard Apple	:	Jammu & Kashmir
3. Kandhamal Haldi	:	Odisha

Select the correct statements using given code below:

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

3. Consider the following statements with regard to Genetically Modified (GM) crops in India:

1. BT cotton is the only GM crop permitted for commercial cultivation
2. BT Mustard, if allowed for commercial production, may reduce the country dependence on edible oil imports.

Select the correct statement(s) using the code given below:

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

4. 'Initial Coin Offering' sometimes seen in the news is related to:

- (a) Crypto Currencies
- (b) Special Drawing Rights (SDR)
- (c) Reserve Bank of India
- (d) New Development Bank

5. Regular intake of fresh fruits and vegetables is recommended in the diet since they are a good source of antioxidants. How do antioxidants help a person maintain health and promote longevity?

- (a) They activate the enzymes necessary for vitamin synthesis in the body and help prevent vitamin deficiency
- (b) They prevent excessive oxidation of carbohydrates, fats and proteins in the body and help avoid unnecessary wastage of energy
- (c) They neutralize the free radicals produced in the body during metabolism
- (d) They activate certain genes in the cells of the body and help delay the ageing process

6. Consider the following statements with respect to “SAMADHAN Portal”:

- 1. It is a dedicated web portal for conciliation, arbitration and adjudication of the industrial disputes.
- 2. It was launched by the Ministry of Labour and Employment.

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

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

7. Microbial fuel cells are considered a source of sustainable energy. Why?

- 1. They use living organisms as catalysts to generate electricity from certain substrates.
- 2. They use a variety of inorganic materials as substrates.
- 3. They can be installed in waste water treatment plants to cleanse water and produce electricity.

Which of the statements given above is/are correct?

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

8. The aim of the programme 'PMGDISHA' is:

- (a) To provide Digital education to the rural children in the age group of 7 - 14 years through select government schools.
- (b) To make 6 Crore rural households digitally literate by March 2019.
- (c) A programme for empowerment of rural destitute women by providing them source of livelihood.
- (d) To provide for financial assistance to the SC/ST non agricultural entrepreneurs from the 2500 select Gram Panchayats.

9. Which of the following statements is/are *incorrect* about Sunspot cycle?

1. The average time of a sunspot cycle is eleven years.
2. Sunspots are darker, magnetically weaker, hotter areas on the surface of the sun.
3. They affect the electronics driven satellite controls and communication systems.

Select the correct answer using the code given below:

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

10. Which of the following is/are correct with regards to MAARS Infantry Robot (Modular Advanced Armed Robotic System)?

1. They are drone like killer – robots
2. They can attack but only on human command

Select the correct answer using the code given below:

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

11. HySIS (Hyperspectral Imaging Satellite) is being developed by

- a) NASA
- b) European Space Agency
- c) The China National Space Administration
- d) ISRO

12. Consider the below statements:

1. Electron, proton and photon are part of matter particles.
2. Neutron and neutrino on the other hand, is a quantum, or tiny bundle, of the electromagnetic field.
3. One fundamental difference between matter particles and field quanta is that while one can squeeze in as many field quanta into a small volume, one cannot do so with matter.

Which of the statements given above is/are correct?

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

13. What is “Virtual Private Network”?

- (a) It is a private computer network of an organization where the remote users can transmit encrypted information through the server of the organization.
- (b) It is a computer network across a public internet that provides users access to

their organization's network while maintaining the security of the information transmitted.

(c) It is a computer network in which users can access a shared pool of computing resources through a service provider

(d) None of the statements (a), (b) and (c) given above is a correct description of Virtual Private Network.

14. Fission reactors can be divided roughly into two classes, depending on the energy of the neutrons that sustain the fission chain reaction: thermal reactors and fast neutron reactors. Consider the following statements.

1. Thermal reactors (the most common type of nuclear reactor) use slowed or thermal neutrons to keep up the fission of their fuel.

2. Fast neutron reactors use fast neutrons to cause fission in their fuel.

3. Breeder reactors operate with thermal neutrons.

Which of the above statements is/are correct?

(a) 1 and 2 only

(b) 2 and 3 only

(c) 3 only

(d) All the above

15. In recent times, there is a rise in the exploration works of the shale gas. Which of the following statements are correct regarding 'Shale Gas'?

1. It is predominantly Methane trapped in Shale rock formations.

2. The source of formation of shale gas is somewhere else and it travels through the permeable shale rocks and gets trapped in the pores.

3. Hydraulic Fracturing is the technique used for extraction of Shale gas.

Which of the above statements are correct?

(a) 1 and 2

(b) 2 and 3

(c) 1 and 3

(d) All of the above

16. Consider the below statements about neutrinos and identify the incorrect statement:

(a) Neutrino is a tiny elementary particle, but it is not part of the atom.

(b) Neutrino has a very tiny mass, no charge and spin half.

(c) Natural neutrinos are harmful as they generate radiation and can cause diseases.

(d) Neutrinos come from the sun (solar neutrinos) and other stars, cosmic rays that come from beyond the solar system, and from the Big Bang from which our Universe originated.

17. With reference to 'stem cells', frequently in the news, which of the following Statements is/are correct?

1. Stem cells can be derived from mammals only.

2. Stem cells can be used for screening new drugs.
3. Stem cells can be used for medical therapies.

Select the correct answer using the codes given below:

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

18. Which of the following programme initiated by Ministry of Science & Technology that addresses various issues related with women scientists in our country?

- (a) Pt. Deen Dayal Upadhyay Vigyan Gram Sankul Pariyojana
- (b) Biotech KISAN
- (c) INSPIRE/MANAK
- (d) KIRAN

19. At present, scientists can determine the arrangement or relative positions of genes of DNA sequences on a chromosome. How does this knowledge benefit us?

1. It is possible to know the pedigree of livestock.
2. It is possible to understand the causes of human diseases.
3. It is possible to develop disease-resistant animal breeds.

Which of the statements given above is/are correct?

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

20. Recently the term “Nova-Crafter” is sometimes seen in the news. The term is related to which of the following?

- (a) NASA’s research project to study the changes of Star in supernova stage
- (b) A newly developed Biomimetic robot for pollination
- (c) An artificial intelligent electric car for emissions reduction
- (d) The code name for ‘Flying car’ project

21. Recently Reserve Bank of India (RBI) launched Ombudsman Scheme for Digital Transactions (OSDT). Consider the following statements with respect to OSDT:

1. It is a complaint redressal mechanism relating to digital transactions conducted through banking and mobile wallets.
2. He is appointed by the Reserve Bank of India for a period not exceeding 3 years at a time.
3. Rs 20 lakh is the maximum compensation the digital payments ombudsman can award.

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

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

22. Consider the following statements with respect to ‘Impacting Research, Innovation and Technology (IMPRINT)’ initiative:

1. IMPRINT aims to address engineering challenges in 10 technology domains relevant to India through an inclusive and sustainable mode.
2. It will be jointly funded and steered by Ministry of Human Resource Development and Department of Science and Technology.

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

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

23. Consider the following about Scorpene-class submarines and identify the *incorrect* statement:

- (a) The submarines are built with the French technology at the Mazagaon Dock Ltd in Mumbai.
- (b) The Scorpene-class submarines are a class of diesel-electric attack submarines jointly developed by the French Direction des Constructions Navales (DCN) and the Spanish company Navantia, and now by DCNS.
- (c) All the six submarines under this class will be equipped with the Air Independent Propulsion (AIP) system, which will enable them to stay underwater for longer duration.
- (d) None of the above

24. Consider the following pairs.

Phenomenon	Description
1. Blue moon	Occurs when the full moon is at the closest point of its orbit to the Earth, which is also called the perigee.
2. Blood moon	The moon turns into red color during the height of the eclipse as some light does reach it even though the moon is in the shadow of the Earth.
3. Super moon	When two full moons appear in the same calendar month, the second is termed a super moon



Which of the above pairs is/are matched correctly?

- (a) 1 and 3 only
- (b) 2 only
- (c) 2 and 3 only
- (d) All the above

25. Regarding the National Solar Mission, which of the following statement(s) is/are *incorrect*?

1. It targets to achieve the generation of 20000 MW of solar power by 2019 and 100,000MW by 2022.
2. It is a fully centralized scheme and is implemented under the aegis of International Solar Alliance.
3. “Scale-Up of access to clean energy scheme for rural productive uses” is implemented as a part of this scheme.

Select the correct answer using the code given below:

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