

TARGET PRELIMS- 2019

TEST- 18

**1. Which of the following is/are true regarding Active Pharmaceutical Ingredients (APIs)?**

1. APIs are the ingredients used in the drugs which give therapeutic effect to the drugs.
2. India imports 60 percent of its API requirements from other nations, mostly from china.
3. Katoch committee was constituted to look into the APIS and suggest recommendations for local manufacturing of APIs.

**Select the correct answer using the code given below:**

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

**2. Which of the following statements is/are incorrect regarding fixed dose combinations (FDC) Drugs?**

- (a) These are drugs having two or more active ingredients in a single dosage.
- (b) Department of Pharmaceuticals recently banned some FDCs as they have no therapeutic advantage.
- (c) The ban was imposed on the recommendations of Kokate committee.
- (d) Drugs and cosmetics Act 1940 provides powers to impose ban on drugs that are unsafe and not having therapeutic advantage.

**3. Consider the following statements about Hepatitis – A disease:**

1. It is an air – borne viral disease and is fatal to humans who are not vaccinated.
2. Loss of appetite, diarrhea and jaundice are the common symptoms seen in the persons affected.
3. National Viral Hepatitis control programme aims to achieve the country wide elimination of Hepatitis – A by 2030.

**Select the correct answer using the code given below:**

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

**4. Fruits stored in a cold chamber exhibit longer storage life because**

- (a) Exposure to sunlight is prevented
- (b) Concentration of carbon dioxide in the environment is increased
- (c) Rate of respiration is decreased
- (d) There is an increase in humidity

**5. Consider the following statements regarding Medical devices Industry (MDI) in India:**

1. It comes under the Department for promotion of Industry and Internal trade.
2. National Medical devices promotion council was created to promote MDI.

3. Some medical devices are categorized as drugs by the National pharmaceutical pricing authority (NPPA).

**Select the correct answer using the code given below:**

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

**6. Consider the following statement regarding Oxytocin:**

- 1. It is produced in the ovaries of a female.
- 2. Oxytocin is prescribed for obstetric and gynecological problems and helps in childbirth.

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

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) None of the above

**7. The surface of a lake is frozen in severe winter, but the water at its bottom is still liquid. What is the reason?**

- (a) Ice is a bad conductor of heat.
- (b) Since the surface of the lake is at the same temperature as the air, no heat is lost.
- (c) The density of water is maximum at 4°C.
- (d) None of the statements (a), (b) and (c) given above is correct

**8. Recently ISRO has decided to transfer its lithium ion (Li ion) cell technology to Indian industries to accelerate development of indigenous electric vehicle (EV) industry. In this context, consider the following statements:**

- 1. The much greater energy density is the chief advantage of a lithium ion battery.
- 2. The rate of self-discharge of Li ion battery is much lower than that of other rechargeable cells.
- 3. The cheaper cost of Li ion battery technology is the great booster to indigenous electric vehicle (EV) industry.

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

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

**9. Which one of the following is the process involved in photosynthesis?**

- (a) Potential energy is released to form free energy.
- (b) Free energy is converted into potential energy and stored.
- (c) Food is oxidized to release carbon dioxide and water.
- (d) Oxygen is taken, and carbon dioxide and water vapour are given out.

**10. Recently government launched a scheme to address the ‘Rare diseases’ in India. Which of the following statements is/are correct about the ‘Rare diseases’?**

1. It is a disease that affects a small percentage of population.
2. Most of the rare diseases are communicable in nature.
3. Sickle cell anaemia and thalassemia are categorized as rare diseases in India.
4. A national policy on orphan drugs is needed to address these diseases.

**Select the correct answer using the codes given below:**

- (a) 1, 2 and 4 only
- (b) 3 and 4 only
- (c) 1, 3 and 4 only
- (d) 1, 2 and 3 only

**11. With regard to UNNATI Programme, consider the following statements:**

1. It is a capacity building programme on Nano satellite development
2. It is an Initiative by Ministry of Science & Technology.

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

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

**12. Which among the following statements are correct about Uranium?**

1. Uranium is placed in the lanthanide group of Mendeleev’s Periodic Table.
2. Thorium generally is not usually fissile and is converted to Uranium for using as nuclear fuel.
3. India has abundance of Thorium when compared to Uranium.

**Select the correct statements using the code given below:**

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

**13. The term “Kessler Syndrome”, sometimes seen in the news is associated with which of the following?**

- (a) Outbreak of Monkey fever
- (b) Space debris collision
- (c) Anti biotic resistant bacteria found on Space station
- (d) New disease that reduces wheat growth

**14. Consider the following statements with respect to Project ‘MeghRaj’:**

1. This is a National cloud service launched by Government of India in order to accelerate delivery of e-services in the country.
2. The project is designed, hosted and maintained by Ministry 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

**15. In addition to fingerprint scanning, which of the following can be used in the biometric identification of a person ?**

1. Iris scanning
2. Retinal scanning
3. Voice recognition

**Select the correct answer using the code given below.**

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

**16. The terms “Jatan and “Darshak” recently seen in news, what are they about?**

- (a) They are schemes of the ministry of tourism to promote tourism and provide safe travel to shrines and holy places located in the Himalayan regions.
- (b) They are two festivals of Manipur celebrated in the month of January/ February to worship sun God.
- (c) They are softwares/applications aimed at making a digitally imprint of all the objects preserved in museums.
- (d) Applications developed by the ministry of social justice, which provide information about the various initiatives taken by all departments for the benefit of disabled.

**17. Which of the following statements is/are correct regarding vegetative propagation of plants ?**

1. Vegetative propagation produces clonal population.
2. Vegetative propagation helps in eliminating the virus.
3. Vegetative propagation can be practiced most of the year.

**Select the correct answer using the code given below.**

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

**18. The known forces of nature can be divided into four classes, viz., gravity, electromagnetism, weak nuclear force and strong nuclear force. With reference to them, which one of the following statements is not correct?**

- (a) Gravity is the strongest of the four
- (b) Electromagnetism acts only on particles with an electric charge
- (c) Weak nuclear force causes radioactivity
- (d) Strong nuclear force holds protons and neutrons inside the nucleus of an atom

**19. Rainbow is produced when sunlight falls on drops of rain. Which of the following physical phenomena are responsible for this?**

1. Dispersion

- 2. Refraction
- 3. Internal reflection

Select the correct answer using the codes given below:

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

**20. Many transplanted seedlings do not grow because**

- (a) The new soil does not contain favourable minerals
- (b) Most of the root hairs grip the new soil too hard
- (c) Most of the root hairs are lost during transplantation
- (d) Leaves get damaged during transplantation

**21. Which of the following statements is/are correct about viruses?**

- 1. They lack enzymes necessary for the generation of energy
- 2. Viruses can be cultured in any synthetic medium.
- 3. They are transmitted from one organism to another by biological vectors only

Select the correct answer using the codes given below.

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

**22. Ball bearings are used in bicycles, cars, etc., because**

- (a) The actual area of contact between the wheel and axle is increased
- (b) The effective area of contact between the wheel and axle is increased
- (c) The effective area of contact between the wheel and axle is reduced
- (d) None of the above statements is correct

**23. Which of the following diseases can be transmitted from one person to another through tattooing?**

- 1. Chikungunya
- 2. Hepatitis B
- 3. HIV-AIDS

Select the correct answer using the codes given below:

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

**24. Which of the following statements *incorrect* regarding National Biopharma Mission?**

- (a) To concentrate on development of specific products such as vaccines, medical devices, biotherapeutics and diagnostics etc.
- (b) It is implemented by Biotechnology Industry Research Assistance Council (BIRAC), a PSU of Department of Biotechnology.
- (c) The mission is launched by Union Ministry of Science & Technology.
- (d) All the statements are correct.



**25. Consider the following minerals:**

1. Calcium
2. Iron
3. Sodium

**Which of the minerals given above is/are required by human body for the contraction of muscles?**

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