

## GS Test 17 (1st May 2022)

**86. Which of the following statements are correct with reference to the application of Nanotechnology in pollution control and combating climate change?**

1. NanoCO<sub>2</sub> harvesters can convert carbon dioxide into products like alcohol.
2. Magnetic nanomaterials can be used to separate arsenic, lead and mercury from water.
3. Iron oxide nanoparticles can be used inside a digester to treat biowaste.

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

**87. With reference to Waste Water Treatment Technology, consider the following statements:**

1. Electrocoagulation technique uses reverse osmosis method to treat wastewater.
2. Electroflotation technique uses electrical charge to treat oily wastewater.

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

**88. With reference to Plasma Arc Gasification (PAG) Technology, which of the following statements is not correct?**

- A. It enables conversion of waste by combustion to usable products.
- B. It converts inorganic waste into an inert vitrified glass.
- C. Syngas is a by-product of this process.
- D. The residual ash produced in the process can be used for preparation of recycled bricks.

**89. Which of the following statements is/are correct about the working of a microwave oven?**

1. Foods that are high in water content are cooked more quickly.
2. Microwaves cannot pass through glass and ceramic containers.
3. Nutritional value of food cooked in a microwave oven is less than that of conventional cooking.

Select the correct answer using the code given below.

- A. 1 only      B. 2 only      C. 1 and 2 only      D. 2 and 3 only

**90. With reference to Neutron Stars, consider the following statements:**

1. They are the last remains of the collapse of a massive star.
2. Rotating neutron stars are called Magnetars which produce powerful beams of light.
3. Binary stars are two stars orbiting a common centre of mass.

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

**91. With reference to X-Rays, consider the following statements:**

1. It has lower energy than visible light.
2. In radiography, bones look white as calcium in bones reflects most of the x-rays.
3. Fluoroscopy uses x-rays to obtain real-time images of movement within the body.

Which of the statements given above is/are correct?

- A. 1 and 2 only      B. 2 only      C. 3 only      D. 2 and 3 only

**92. With reference to Gluten, consider the following statements:**

1. Gluten is a protein naturally found in some grains including wheat, barley and rye.
2. Celiac disease is a genetic disorder associated with the ingestion of gluten.

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

**93. Consider the following statements:**

1. Both Cobalt and Lithium are used in the production of Lithium-ion batteries.
2. No lithium resources have been found in India yet.
3. Democratic Republic of Congo (DRC) has the highest reserves of Cobalt ore in the world.

Which of the statements given above are correct?

- A. 1 and 2 only      B. 2 and 3 only      C. 1 and 3 only      D. 1, 2 and 3

**94. Consider the following statements:**

1. Hot deserts are formed mainly due to the effect of off-shore trade winds.
2. Desert vegetations have xerophytic adaptations.
3. 'Hard pans' are a feature of hot desert regions formed due to intense evaporation.

Which of the statements given above are correct?

- A. 1 and 2 only      B. 2 and 3 only      C. 1 and 3 only      D. 1, 2 and 3

**95. Consider the following pairs:**

Sl.No.	Ocean Bottom Relief		Description
1.	Mid Oceanic Ridges	:	Two chains of mountain separated by depression
2.	Seamounts	:	Mountains with flat top
3.	Submarine Canyons	:	Deep valleys cutting across continental shelves and slopes
4.	Guyots	:	A seamount with pointed top

Which of the pairs given above are correctly matched?

- A. 1 and 3 only      B. 1, 2 and 3 only      C. 1, 2 and 4 only      D. 3 and 4 only