

CSE PRELIMES 2020
TEST - X (GEN. SCIENCE)

1. With reference to Nuclear Energy generation, consider the following statements
1. Hydrogen isotopes joining together to create helium is called as Nuclear fission.
 2. The nuclear fission reactions are the source of energy in the sun and other stars.
 3. Hydrogen bomb is based on the thermonuclear fusion reaction.
- Which of the statements given above is/are CORRECT?
- a) 2 only b) 1 and 2 only
c) 2 and 3 only d) 3 only

Answer: (c)

2. Which of the following statements are INCORRECT?
1. When wood is burnt in the limited supply of oxygen, then water and volatile material present in it get moved and charcoal is left behind as the residue.
 2. Charcoal burns without flames is comparatively smokeless and has a higher heat generation efficiency.

Select the correct answer using the codes given below:

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

Answer: (d)

3. Which of the gases are generated in Bio gas plant?
1. Methane gas
 2. Carbon dioxide
 3. Hydrogen
 4. Hydrogen sulphide

Select the correct answer using the codes given below:

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

Answer: (d)

4. Which of the following devices are based on Joule's heating?

1. Iron 2. Electric oven
3. Electric kettle

Select the CORRECT answer using the codes given below:

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

Answer: (d)

5. Which of the following phenomenon is/are due to Scattering of Light?

1. Tyndal Effect
2. Blue color to sky
3. Color of sun at sun-rise and sun set

Select the CORRECT answer using the code given below:

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

Answer: (d)

6. Consider the following statements with reference to Eye,

1. Light enters the eye with thin membrane called cornea.
2. Size of the pupil is controlled by Iris.
3. Inverted image is formed on the retina of eye.

Which of the statements given above is/are CORRECT?

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

Answer: (c)

7. Which of the following uses the convex mirrors?

- a) Torches
b) Rear view mirror
c) Vehicle headlights
d) Dentists using mirrors to see large images of the teeth of patients.

Answer: (b)

8. Which of the following statements given is/are CORRECT?

1. Solar cells are based on the Principle of Conversion of Photo-voltaic effect to Electric energy.
2. Wave energy involves conversion of potential energy to Electric energy.

Select the CORRECT answer using the codes give below:

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

Answer: (a)

Explanation: Wave energy involves conversion of Kinetic energy to electric energy.

9. Which of the following steps are accomplished in the photosynthesis process?

1. Absorption of light energy by chlorophyll
2. Conversion of light energy to chemical energy and splitting of water molecules into hydrogen and oxygen
3. Oxidization of carbon dioxide to carbohydrates.

Select the CORRECT answer using codes given below:

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

Answer: (a)

Explanation: Reduction of carbon dioxide to carbohydrates.

10. The digestion of Glucose in human cells with lack of oxygen would result into

- a) Ethanol and carbon dioxide and energy
- b) Lactic Acid and energy
- c) Carbon dioxide and water and energy
- d) None of the option is correct

Answer: (b)

11. India recently submitted report titled "Making India 5G ready". with reference to it how 5G differ from 4G.?

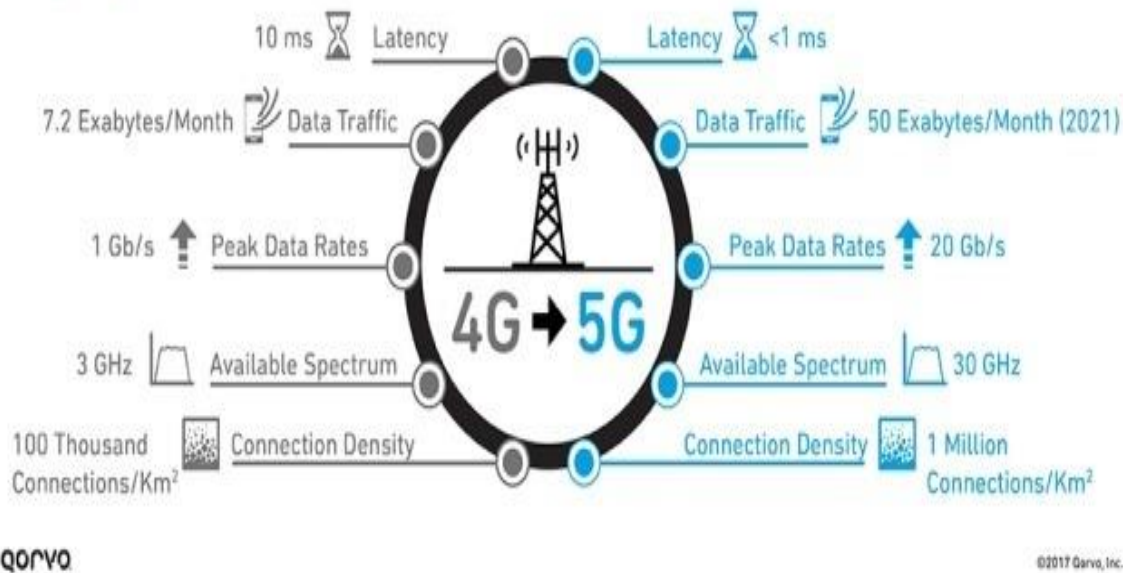
- 1) Available spectrum for 5G is 30Ghz compare to 3Ghz of 4G.
- 2) 5G is a wireless communication technology using radio waves in compare to 4G broadband cellular technology.

Select the correct answer by using code given below;

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

Answer: (c)

Comparing 4G and 5G



...Learn with Logic...

It is a wireless communication technology using radio waves or radio frequency energy to transmit and receive data.

12. Which among the following is asexual production in plants?

1. Regeneration 2. Budding
3. Fragmentation 4. Fission

Select the CORRECT answer using the codes given below:

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

Answer: (d)

13. With reference to color of sky and sun, consider the following statements
1. Light from the sun near the horizon passes through thicker layers of air and larger distance in the earth's atmosphere before reaching our eyes. Hence sky looks blue.
 2. Light from the Sun would travel relatively shorter distance in evening time. Hence, the sky looks reddish color.

Which of the statements given above is/are CORRECT?

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

Answer: (d)

Explanation: Statements have been switched.

14. Which of the following phenomenon are due to Atmospheric Refraction?
1. Twinkling of stars
 2. Advance sunrise and delayed sunset

Select the CORRECT answer using codes given below:

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

Answer: (c)

15. Which among the following is NOT an adaptation method used by Desert species?

- a) To stay in burrows
b) Absent of leaves
c) Stem covered with thick waxy layer
d) Animals breathe in air through nostrils located on their upper part of Head

Answer: (d)

16. Which of the following material is used in the Black and white Photography?

- a) Silver Bromide Only
b) Silver Chloride Only
c) Both a and b
d) None of the above

Answer: (c)

17. Consider the following statements

1. Litmus solution is extracted from a plant species called Lichen.
2. The Litmus color in the neutral solution is Red.

Which of the statements given above is/are CORRECT?

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

Answer: (a)

Explanation: The color of Litmus in neutral solution is purple.

18. Lowering the atmospheric pressure on a liquid

- a) Increases the boiling point of the liquid
- b) Lowers the boiling point of the liquid
- c) Does not affect the boiling point of the liquid
- d) Increases the time required for it to boil

Answer: (b)

19. Consider the following statements

1. Light is an electromagnetic wave and can travel through vacuum
2. Sound waves can travel through vacuum

Which of the statements given above is/are CORRECT?

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

Answer: (a)

20. Match of the following (Diseases caused due to lack of vitamins)

- | I | II |
|--------------|-------------------------|
| A. Vitamin A | 1. Rickets |
| B. Vitamin B | 2. Beriberi |
| C. Vitamin C | 3. Loss of Night vision |
| D. Vitamin D | 4. Scurvy |

Select the CORRECT answer using the code given below

- | | | | | |
|----|----------|----------|----------|----------|
| | A | B | C | D |
| a) | 3 | 2 | 4 | 1 |
| b) | 3 | 2 | 1 | 4 |
| c) | 4 | 2 | 3 | 1 |
| d) | 4 | 2 | 1 | 3 |

Answer: (a)

21. Which one of the following polymers is made of protein?

- | | |
|-----------|-----------|
| a) Rubber | b) Cotton |
| c) Wool | d) Jute |

Answer: (c)

22. Which one of the following elements is present in the green pigment of leaves?

- | | |
|--------------|-----------|
| a) Magnesium | b) Iron |
| c) Calcium | d) Copper |

Answer: (a)

23. With reference to the evolution of living organism, which one of the following sequences are correct?

- | | | | |
|--------------|---------------|-------------|----------|
| 1) Fishes | 2) Amphibians | 3) Reptiles | 4) Birds |
| 5) Mammals. | | | |
| a) 1-2-3-4-5 | b) 3-4-1-5-2 | | |
| c) 2-4-5-1-3 | d) 1-3-4-2-5 | | |

Answer: (a)

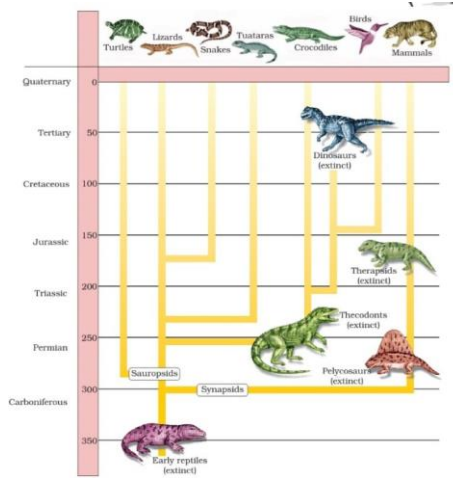


Figure 7.10 Representative evolutionary history of vertebrates through geological period

24. Common salt acts as a raw material for chemical like
- a) Bleaching Powder
 - b) Sodium Hydroxide
 - c) Both a and b
 - d) Neither a nor b

Answer: (c)

25. Which among the following is most reactive element?
- a) Calcium
 - b) Potassium
 - c) Zinc
 - d) Hydrogen

Answer: (b)

GS MOCK TESTS 2020

GS MAINS & ESSAY

**WITH ONE-TO-ONE MENTORING
AND COMPREHENSIVE
MODEL ANSWER**

TOTAL 8 TESTS (EACH)

- **ESSAY STARTS FROM 7TH FEB.**
- **GS MAINS STARTS FROM 9TH FEB.**
- **DISCUSSION VIDEO ONLY FOR ESSAY**

ETHICS TEST SERIES : 7TH FEB.