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## **Previous Year Paper**

**Science - 2014**



## Multiple Choice Questions

1. Aqueous solution of  $\text{SO}_2$  is

- A. acidic
- B. basic
- C. neutral
- D. amphoteric

[Answer](#)

2. Other than the nucleus which cellular organelle contains DNA?

- A. Ribosome
- B. Golgi complex
- C. Mitochondria
- D. Lysosome

[Answer](#)

3. Person taking rich diet of ascorbic acid will not suffer from

- A. Rickets
- B. Pellagra
- C. Scurvy
- D. Beri-beri

[Answer](#)

4. Which is the vestigial organ in a man?

- A. Pinna muscles
- B. Pinna
- C. Ileum
- D. Teeth

[Answer](#)

5. Which one of the following are acoelomate animals?

- A. Echinoderms
- B. Annelids
- C. Arthropods
- D. Platyhelminthes

[Answer](#)

6. Which of the following is not a protein?

- A. Heparin

D. Albumin

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Answer

7. Which type of centrum is found in the vertebra of mammals?

- A. Amphiplatan
- B. Heterocoelous
- C. Procoelous
- D. Amphicoelous

Answer

8. In the absence of light, what will increase?

- A. Water uptake
- B. Elongation of internodes
- C. Uptake of mineral salts
- D. Extension of leaf lamina

Answer

9. The enzyme responsible for reduction of molecular nitrogen to ammonia in leguminous plant is

- A. Nitrite reductase
- B. Nitrate reductase
- C. Nitrogenous
- D. All of the above

Answer

10. A plant forms spores, have vascular system, but does not form flower and seed can be placed under

- A. Algae
- B. Bryophyta
- C. Pteridophyta
- D. Gymnosperm

Answer

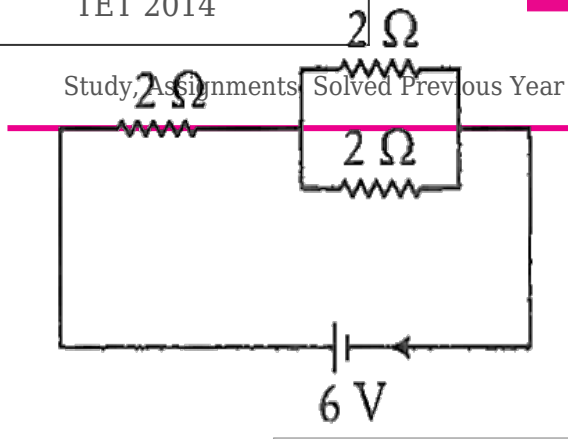
11. The image produced by a concave lens is always

- A. real
- B. virtual
- C. inverted
- D. enlarged

Answer

12. The current  $i$  flowing through the cell in the given circuit is (internal resistance of cell is zero)

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- A. 1 A
- B.  $3/2$  A
- C. 2 A
- D. 3 A

Answer

13. If somehow the distance between the Sun and the Earth is doubled, the gravitational force between them will become

- A. double
- B. half
- C. four times
- D. one-fourth

Answer

14. If the magnitude of vector  $\vec{A}$  is 10 cm and the direction is North, then what is the magnitude and direction of the vector  $-2\vec{A}$ ?

- A. 20 cm East
- B. 20 cm West
- C. 20 cm North
- D. 20 cm South

Answer

15. An electric charge  $q$  moves with a constant velocity  $v$  parallel to the lines of force of a uniform magnetic field  $B$ . Force on charge is

- A.  $qvB$
- B.  $qv/8$
- C. Zero
- D.  $Bv/q$

Answer

16. The pH value of any solution that converts red litmus to blue in color will be

- A. 1
- B. 4

Answer

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17. Which type of hybridization occurs in  $\text{ClF}_3$ ?

- A.  $\text{sp}^3$
- B.  $\text{sp}^2$
- C.  $\text{sp}^2\text{d}$
- D.  $\text{sp}^3\text{d}$

Answer

18. Marsh gas is

- A. Methane
- B. Ethane
- C. Propane
- D. Butane

Answer

19. Rusting of iron is

- A. Reduction reaction
- B. Oxidation reaction
- C. Redox reaction
- D. Displacement reaction

Answer

20. Petroleum is refined by

- A. simple distillation
- B. fractional distillation
- C. steam distillation
- D. vacuum distillation

Answer

21. Which one of the following is known as Bayer's Reagent?

- A. Dilute alkaline solution of potassium permanganate
- B. Concentrate acidic solution of potassium permanganate
- C. Acidic solution of potassium permanganate
- D. Neutral solution of potassium permanganate

Answer

22. Most appropriate formative task to assess the student's understanding of data analysis is

- A. Role play
- B. Crossword
- C. Survey-based project
- D. Quiz

Answer

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23. The projections which are used to show opaque figures and pages of books are called
- A. Epidiascope
  - B. Telescope
  - C. Bioscope
  - D. Radioscope
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Answer

24. Which of the following is not an activity-based teaching method?
- A. Demonstration Method
  - B. Observation Method
  - C. Heuristic Method
  - D. Lecture Method

Answer

25. Do we use to perform which of the following to test a hypothesis?
- A. Experiment
  - B. Examination
  - C. Evaluation
  - D. Result

Answer

26. 'Inquiry method' is also known as
- A. Problem-solving Method
  - B. Collection Method
  - C. Heuristic Method
  - D. Classification Method

Answer

27. While teaching "Flower of Brassica campestris", which of the following would be the best-suited method?
- A. Observation Method
  - B. Lecture Method
  - C. Field Trip Method
  - D. Discussion Method

Answer

28. The vertical component of Earth's magnetic field is zero at
- A. magnetic poles
  - B. geographic poles
  - C. everywhere
  - D. magnetic equator

Answer

29. Which is the formula of potash alum?
- A.  $(\text{NH}_4)_2\text{SO}_4 \cdot \text{Fe}(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$

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C.  $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ 

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D.  $K_2SO_4 \cdot Cr_2(SO_4)_3 \cdot 24H_2O$ 

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[Answer](#)