

By. Er. Dharmendra Sir

7974073108, 9584873492

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6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

EXAM - PAPER (CBSE/NCERT)

PRACTICE SET -4

SESSION -2024-25

CLASS - 10th

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Time : 3:00 hrs Exam paper -4 (Science) mm:

Q.1. Choose and write the correct Alternative:



the above reaction is an example of a :

- (a) Combination reaction (b) Double displacement Rx
(c) Decomposition reaction (d) Displacement reaction

(ii) Which one of the following types of medicines is used for treating indigestion?

- (a) Antibiotic (b) Analgesic
(c) Antacid (d) Antiseptic

(iii) Which of the following methods is suitable for preventing an iron frying pan from rusting?

- (a) Applying grease (b) Applying paint
(c) Coating of zinc (d) Coating of chromium

(iv) Butanone is a four carbon compound with the functional group:

- (a) Carboxylic acid (b) Aldehyde
(c) Ketone (d) Alcohol.

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(v) The breakdown of pyruvate to give Carbon dioxide, water and energy, this reaction takes place in :

- (a) cytoplasm (b) mitochondria
(c) chloroplast (d) Nucleus.

(vi) The gap between two neurons is called :

- (a) dendrite (b) synapse
(c) Axon (d) Impulse.

Q. 2. Fill in the blanks :-

- (i) The disposal of the waste we generate is causing serious problems.
(ii) The least distance of distinct vision for a young adult with normal vision is about
(iii) Scattering of light cause the colour of sky.
(iv) The SI unit of electric power is
(v) The potential difference is measured by means of an instrument called
(vi) At the time of short circuit, the current in the circuit

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Q.3. Write True/False :

- (i) Two magnetic field lines intersect each other.
- (ii) Chlorofluorocarbons is used as fire extinguisher.
- (iii) Substances that are broken down by biological processes are said to be non-biodegradable.
- (iv) Full form of DNA is Deoxyribose Nucleic acid.
- (v) Hydra can be cut into many pieces and each piece grows into a complete organism. This is known as regeneration.
- (vi) Energy is observed in exothermic chemical reaction.

Q.4. Match the column :

- | | |
|-----------------------------|---------------------------|
| (i) marble | (a) liquid non-metal |
| (ii) vinegar | (b) C_6H_6 |
| (iii) Bromine | (c) $CaCO_3$ |
| (iv) Benzene | (d) Acetic acid |
| (v) Pair of sex chromosomes | (e) Regulates blood sugar |
| (vi) Insulin | (f) XY |
| | (h) XX |

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Q.5. Write the answers in one word / sentence.

- (i) What is the blood pressure?
- (ii) Write the name of plant hormones which help in the growth of the stem.
- (iii) Who worked out the main rules of such inheritance?
- (iv) Danger signal light are red in colour, why?
- (v) Write the commercial unit of electrical energy.
- (vi) Write the full form of MRI.

Q.6. Why should curd and sour substance not be kept in brass and copper vessels?

or

When does acid rain occur? Write reason and its effects.

Q.7. Which types of acid found in following natural source? (i) Lemon (ii) Ant sting.

or

Write any two uses of Baking soda.

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Q. 8 Draw the electron dot structure of methane

or

Draw the electron dot structure of ethane

Q. 9. What is denatured alcohol? write.

or

How to use alcohol as a fuel? write.

Q. 10. Define life processes.

or

Write the chemical reaction of photosynthesis.

Q. 11. Why is vegetative propagation practised for growing some types of plants? write reason.

or

Write definition of tissue culture technique.

Q. 12. How does the Embryo get nourishment inside the mother's body? write.

or

What is menstruation and how many days usually lasts in menstruation? write.

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Q.13. How is the sex of the child determined in human beings? (Draw only ~~one~~ linear diagram;

OR

Draw the linear diagram of first generation or F_1 progeny of inheritance

Q.14. Write laws of reflection of light

OR

Define the following :

(i) Centre of curvature (ii) Focal length.

Q.15. The refractive index of diamond is 2.42. What is the meaning of this statement?

OR

Define 1 Dioptre of power of a lens.

Q.16. Why does the sky appear dark instead of blue to an astronaut? Write reason.

OR

Write reason why the planets do not twinkle

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Q. 17. Draw the symbols of following components used in circuit diagram :

- (i) An electric cell (ii) Rheostat

or

on what factors does the resistance of a conductor depend ? (Write any two factors).

Q. 18. Give an example of a metal which :

- (i) Is a liquid at room temperature.
(ii) Can be easily cut with a knife.
(iii) Is the best conductor of heat.

or

Define the following terms :

- (i) mineral (ii) ore (iii) Gangue.

Q. 19. Draw the structure of neuron and write any two names of organelles of any cell.

or

Draw the structure of reflex arc and write any two names of part.

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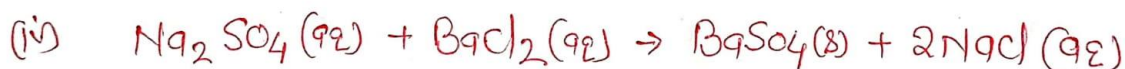
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Q.20. Write the right hand thumb (maxwell's corkscrew) rule with ray diagram.

or

Write the Fleming's left hand rule with ray diagram.

Q.21. Write the types of following chemical reactions:



or

(i) When sodium sulphate reacts with barium chloride, what is the name of this type of reaction and write its chemical reaction.

(ii) Which type of product produce, when calcium oxide reacts with water? Write its chemical reactions.

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Q.22. Draw labelled diagram of Excretory system in human beings.

or

Draw labelled diagram of open and closed stomatal pore.

Q.23. A convex mirror used for rear-view on an automobile has radius of curvature of 3.00m. If a bus is located at 5.00m from the mirror, find the position, nature and size of the image.

or

An object 4.0 cm in size is placed at 25.0 cm in front of a concave mirror of focal length 15.0 cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image? Find the nature and the size of the image.

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