

By. Er. Dharmendra Sir

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DPM CLASSES

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

EXAM - PAPER (CBSE/NCERT)

PRACTICE SET -3

SESSION -2024-25

CLASS - 10th

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

Q. 1. Choose and write the correct alternative:

(i) What type of reaction is the reaction of calcium oxide with water?

- (a) Endothermic reaction (b) Exothermic reaction
(c) Neutralization reaction (d) Redox reaction.

(ii) Which property is not exhibited by metals?

- (a) Electrical conductivity (b) Ductility
(c) Brittleness (d) malleability.

(iii) The process of respiration is -

- (a) oxidation (b) Reduction
(c) Excretion (d) Adsorption.

(iv) Which reproduction method occurs in Amoeba?

- (a) budding (b) Oospores
(c) Binary fission (d) multiple fission

(v) The focal length of the plane mirror is -

- (a) +1 cm (b) -1 cm
(c) 2 cm (d) Infinity.

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(vi) The unit of resistance is called -

- (a) Volt (b) Watt
(c) ohm (d) Ampere

(vii) A device used to convert electrical energy into mechanical energy -

- (a) Ammeter (b) Generator
(c) Motor (d) Galvanometer

(viii) There is human in ecosystem -

- (a) producer (b) Vegetarian
(c) Carnivorous (d) Omnivorous.

Q.2. Fill in the blanks -

- (i) acid is present in vinegar.
(ii) A homogeneous mixture of two or more than two metals is called an
(iii) Testosterone hormone is secreted by
(iv) The pollen grains of one flower are transformed to another flower then this process is called

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(v) The Chromosomes are responsible for the male child.

(vi) We can see objects in the presence of

(vii) The deviation of a ray of colour is maximum by the prism.

Q. 3. match the columns :

- | | |
|-----------------------------|----------------------|
| (i) Strong acid | (4) water transport |
| (ii) metal | (b) pituitary |
| (iii) xylem | (c) light ray |
| (iv) master gland | (d) volt |
| (v) female hormone | (e) HCl |
| (vi) mendel | (f) Estrogen |
| (vii) straight line path | (g) Good conductor |
| (viii) potential difference | (h) Laws of genetics |
| | (i) ohm's |

Q. 4. Write the answer in one sentence each:

(i) The reaction in which there is an exchange of ions between the reactants are called ?

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- (ii) Which part of the brain is specialised for thinking, hearing, smelling, seeing etc?
- (iii) From where does the embryo get nutrition?
- (iv) What will be the power of a lens whose focal length is 1 meter?
- (v) What is the reason that the danger signal or signal light is red in colour?
- (vi) How many watts are there in one horse power?
- (vii) The most important device for protection against damage due to short circuit or overloading is?

~~(viii)~~

Q.5. What is corrosion? describe with example.
or

Write the following word equation to balanced chemical equation.



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Q.6. Explain the meaning of malleability and ductility ?
or

Name two metals which are found in nature in the free state.

Q.7. Write only one example of each saturated and unsaturated Carbon Compounds.

or

Write only one example of each functional group aldehyde and Carboxylic acid.

Q.8 Write only the chemical equation of photosynthesis process
or

What is heterotrophic nutrition ? Give an example

Q.9. Define -the regeneration
or

which is called vegetative propagation

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Q.10. What is the total number of chromosomes in human? What is the difference between female and male chromosomes?

or

How do Mendel's experiments show that traits are inherited independently?

Q.11. What is a biconvex lens called?

or

Write any two applications of concave mirror.

Q.12. What happens when a light ray enters denser medium to rarer medium?

or

Incident ray makes an angle of incidence of 30° on a plane mirror, then what will be the value of the angle of reflection?

Q.13. Define electric current. What is its S.I. unit.

or

Which two metal wires are used for transmission of electricity?

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Q.14. Define the Electromagnetic induction.
or

When does short circuit occurs in an electric circuit ?

Q.15 Why don't two magnetic field lines intersect each other or

What is the device that converts mechanical energy into electrical energy called ? It is based on which phenomenon ?

Q.16. Write only names of various trophic level living organisms of food chain in any one ecosystem.
or

Which is called omnivorous animals ?

Q.17. What is precipitation reaction called ? Write an example ?
or

Why do fill the bag of potato chips with nitrogen gas ? Explain ?

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Q. 18. Write any three functions of human brain ?
or

Write the name of any three Endocrine glands found in human and also write its secreting hormone name ?

Q. 19. What is called the colour dispersion ? Explain with diagram. or

Why does the colour of the clear sky appear blue ?

Q. 20. How does tooth decay occur due to pH change. How to prevent this ?

or

Write two uses of each of the following :

(i) Baking soda (ii) Bleaching powder

(iii) Plaster of Paris (iv) Washing Soda.

Q. 21. Write the name, formula, and structural formula of any four members of alkane homologous series.

or

Define alkene and alkyne and give one example of each.

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Q.22. Draw a neat and clean labelled diagram of human digestive system.

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Draw a neat and clean labelled diagram of human heart.

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