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DPM CLASSES

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

EXAM - PAPER (CBSE/NCERT)

PRACTICE SET -1

SESSION -2024-25

CLASS - 10th

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Add: Block -B, Near Glory Villa, 60 feet Road (Nearest land mark Scindia Statue), Shatabdipuram, Gwalior

Time : 3:00 hrs. Exam paper - 1 (Science) mm:

Q.1. Fill in the blanks :- ----- 1×5 = 5

(a) Horizontal rows are known as .....
(b) Removal of wastes from the body is called .....
(c) We have more similarities with ..... in Evolutionary terms.
(d) SI unit of electric potential is .....
(e) The disposal of the wastes is a serious ..... problem.

Q.2. match the column : ..... 1×5 = 5

(a) Vinegar	(i) 2.3 cm
(b) Female	(ii) 1985
(c) Sex chromosome	(iii) 1987
(d) eye ball	(iv) Acetic acid
(e) Ganga action plan	(v) Estrogen
	(vi) Testosterone
	(vii) Sex determination

Q.3. Choose the correct alternate : ..... 1X5 = 5

(a) metal exists in liquid state is -

(i) mercury (ii) sodium

(iii) Aluminium (iv) zinc

(b) The xylem in plants are responsible for -

(i) transport of oxygen (ii) transport of food

(iii) transport of water (iv) transport of acids

(c) Name of master gland is :-

(i) adrenal gland (ii) pituitary gland

(iii) insulin (iv) thyroid gland

(d) The unit of power of lens is -

(i) meter (ii) centimeter

(iii) dioptre (iv) kilometer

(e) The least distance vision for a young adult with normal vision is about -

(i) 25 cm (ii) 25 m

(iii) 2.5 cm (iv) 2.5 m

Q.4. Write the answer in one word / or sentence: ..... 1×5=5

(a) Write the names of equation in which there is an exchange of ions between the reactants.

(b) Write the pH value of pure water.

(c) Write the name of respiration that takes place in absence of air (oxygen)

(d) Write the unit of electric charge.

(e) Write the name of carbon, which are used in refrigeration and fire extinguishers.

Q.5. Why should a magnesium ribbon be cleaned before burning in air. 2

or

Define exothermic chemical reaction

Q.6. Write the mendeleev's periodic law. 2

or

Write Dobereiner's traids law

Q.7. Define the 'Self pollination' ? ..... (2)
or
Why is reproduction essential ?

Q.8 Define the heredity.
or
How is the sex of a child determined in human beings

Q.9. Define the focal length of a spherical mirror.
or
Define the magnification

Q.10. Define Corrosion and write two ways to Prevent the Corrosion
or
A Solution of a Substance 'X' is used for White Washing
(a) Name the Substence 'X' and write its formula.
(b) Write the reaction of the Substance with water.

Q. 11. Draw a labelled diagram of refraction of light through a prism.

or

Draw a ray diagram of scattering of light in colloidal solution.

Q. 12. Define the electric fuse.

or

Define the galvanometer.

Q. 13. Write the principal of an electric motor.

or

Write the names of three sources of direct current.

Q. 14. Draw a labelled diagram of Solar Cooker.

or

Draw a labelled diagram of Bio-gas plant.

Q.15. Why should we store plaster of paris in moisture proof container ? Write its equation.

or

Write the chemical name, formula and two uses of bleaching powder.

Q.16. Write the names, formula and structural formula of first four hydrocarbon.

or

Define hydrogenation and write its industrial applications

Q.17. What is the role of saliva in the digestion of food ?

or

From where do plants get each of the ~~four~~ raw material required for photosynthesis ?

Q.18 Draw a labelled diagram of Human Brain.

or

Draw a labelled diagram of neuron.

Q. 19. Write the four factors affecting the resistance of a conductor.

or

Draw any four symbols of the components used in electric circuit.

Q. 20. Write any five physical properties of metals.

or

(a) Write the names of two metals which are the good conductors of heat.
(b) Define the sonorous, mineral and gangue.

Q. 21. Why is vegetative propagation practised for growing some type of plants ?

or

How does the embryo get nourishment inside the mother's body ?

Q. 22. (a) Define the power of lens (b) Find the power of a concave lens of focal length 2 cm

or

(a) Define the radius of curvature of the spherical mirror. (b) The radius of curvature of spherical mirror is 20 cm. Find its focal length.

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