

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 -2

SESSION -2024-25

CLASS - 10th

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Time : 3:00 hrs Exam paper - 2, (Science) mm:

Q.1. Choose and write the correct alternative:

(i) What happens when dilute hydrochloric acid is added to iron filings?

- (a) Hydrogen gas and iron chloride are produced.
- (b) Chlorine gas and iron hydroxide are produced.
- (c) No reaction takes place.
- (d) Iron salt and water are produced.

Q.2. (i) The most reactive metal is -

- (a) Na (b) Au (c) Ag (d) Cu

(ii) A sexual reproduction through small buds takes place in -

- (a) Amoeba (b) yeast
- (c) Plasmodium (d) Leishmania.

(iii) Which of the following is not a part of female reproductive system in human being?

- (a) Ovary (b) Uterus
- (c) Vas deferens (d) Fallopian tube.

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(v) S.I. unit of power of lens is -

- (a) meter
- (b) centimeter
- (c) Dioptre
- (d) millimeter

(vi) The human eye forms the image of an object at its -

- (a) cornea
- (b) Iris
- (c) pupil
- (d) Retina

(vii) The change in focal length of an eye lens is caused by the action of the -

- (a) pupil
- (b) Retina
- (c) ciliary muscles
- (d) Iris

(viii) Fossil fuel is -

- (a) coal and petroleum
- (b) wood
- (c) paper
- (d) plastic.

Q.2. Fill in the blanks:

- (i) Newlands gave the law of
- (ii) Fishes have only chambers in their heart.

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- (iii) Green plants makes their own
- (iv) Aerobic respiration occurs in the presence of
- (v) actions are controlled by the medulla.
- (vi) The fusion of male gamete and female gamete is called
- (vii) The SI unit of electric current is
- (viii) In the flow of energy is unidirectional.

Q.3. Match the columns:

- | | |
|----------------------------------|-------------------|
| (i) Formula of Common salt | (a) Oersted |
| (ii) Non metal iodine | (b) NaCl |
| (iii) Alloy | (c) Reflex action |
| (iv) Blinking of eyelids | (d) Iron |
| (v) Reproduction in Hydra | (e) Lustrous |
| (vi) Genetic material | (f) Budding |
| (vii) The unit of magnetic field | (g) DNA |
| (viii) magnetic material | (h) gold |
| | (i) Bronze |

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

- (i) Write the pH value of acidic solution.
- (ii) What is the homogeneous mixture of two or more metals?
- (iii) What is the gap between two nerve cells called?
- (iv) How many days are the period of menstruation?
- (v) Write the names of father of genetics.
- (vi) Write the lens formula.
- (vii) What does an electric circuit mean?
- (viii) How many poles does a magnet have?

Q.5. Why do we apply paint on iron articles?

or

Why is respiration considered an Exothermic reaction?

Q.6. Write two ways of prevention of corrosion

or

Write two differences between metals and non-metals.

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Q. 7. Define the atomic size.

or

Write two limitations of Newland's law of octaves.

Q. 8. What would be the consequences of deficiency of haemoglobin in our body?

or

What is autotrophic nutrition?

Q. 9. Why is reproduction essential?

or

Define the unisexual flower.

Q. 10. Why did Mendel choose the pea plant for his experiments? Write any two reasons.

or

What is heredity?

Q. 11. Write the laws of reflection of light.

or

Define the magnification.

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Q.12. On what factors does the resistance of a conductor depend? Write any two factors.
or

How much work is done in moving a charge of 2 C across two points having a potential difference 12 V?

Q.13. Draw any two symbols of the components used in electric circuit.

or
Why is the tungsten used almost exclusively for filaments of electric lamps?

Q.14. Give any two ways in which non-biodegradable substances could affect the environment.
or

What is ecosystem?

Q.15. Define the combination reaction and decomposition reaction.
or

Why should a magnesium ribbon be cleaned before burning in air?

6.

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Q.16 Draw a labelled diagram of the human eye.

or

Draw a labelled diagram of dispersion of white light by the glass prism.

Q.17. Write any three properties of magnetic field line

or

What is Right-hand thumb rule? Write.

Q.18. What are the advantages of using a solar cooker? (Any four)

or

What are the qualities of an ideal source of energy?

Q.19. Write any four differences between acid and base.

or

Write any four uses of plaster of Paris.

Q.20. Write the differences between soap and detergent (Any four)

or

Draw the electron dot structure of methane (CH_4) and ethane (C_2H_6)

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Q.21. Write the differences between xylem and phloem (any four)

or

Write the differences between blood and lymph.

Q.22. (a) Write any two uses of concave mirrors.

(b) Find the focal length of a concave mirror whose radius of curvature is 32 cm.

or

(a) What is converging lens?

(b) The radius of curvature of a spherical mirror is 20 cm. What will be its focal length?

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