General Instructions: 18



- A. All questions are compulsory. Study. Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.
- B. The **Question Paper** comprises of **Two** Sections, **A and B**. You are to attempt both the sections.
- C. All questions of **Section-A** and **Section-B** are to be attempted separately.
- D. There is an internal choice in **three questions** of **three marks** each and **two question** of **five** marks.
- E. Question number 1 to 2 in Section-A are one mark question. These are to be answered in one word or in one sentence.
- F. Question numbers **3 to 5** in **Section-A** are **two marks** questions. These are to be answered in about **30 words** each.
- G. Question numbers 6 to 15 in Section-A are three marks questions. These are to be answered in about 50 words each.
- H. Question numbers **16 to 21** in **Section-A** are **five marks** questions. These are to be answered in about **70 words** each.
- 9. Question numbers 22 to 27 in Section-B are questions based on practical skills and are two marks questions.

Section A

1

What is a reflex action?

[1]

2

Name the methods of asexual reproduction.

[1]

3

Write the group member with atomic number for each of the following elements:

- (i) F (at. no. 9) (ii) K (at. no. 19)
- (iii) P (at. no. 15) (iv) Al (at. no. 13).

[2]

4

Which type of phenomenon (reflection or refraction) occurs when light falls on (i) a highly polished surfactive in the surfaction of the s



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Explain, why are fossil fuels classified a non-renewable sources of energy?

[2]

6

Balance the following chemical equations:

- (i) NaOH + $H_2SO_4 \rightarrow Na_2SO_4 + H_2O$
- (ii) $HNO_3 + Ca(OH)_2 \rightarrow Ca(NO_3)_2 + H_2 O$
- (iii) $FeCl_2 + H_2S \rightarrow HCI + FeS$

[3]

7

When hydrochloric acid is added to marble pieces, a gas (A) is evolved. On passing gas A through lime water, a white precipitate of (B) is formed. When excess of A is passed, B dissolves due to the formation of soluble C. Identify A, B and C. Explain the reactions.

[3]

OR

Give the important properties and uses of sodium carbonate.

[3]

8

How is the problem of dobling of the amount of DNA solved?

[3]

OR

What is the full form of ATP? How is it form? How much energy it releases when broken down? What are its uses?

[3]

OR

10



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The following table shows the position of six elements A, B, C, D, E and F in the periodic table.

Groups Periods	1	2	3 to 12	13	14	15	16	17	18
2.	A					В			C
3.		D			E				F

Using the above table answer the following questions:

- (a) Which element will form only covalent compounds?
- (b) Which element is a metal with valency 2?
- (c) Which element is a non-metal with valency of 3?
- (d) Out of D and E, which one has a bigger atomic radius and why?
- (e) Write a common name for the family of elements C and F.

[3]

11

The sex of a newborn child is a matter of chance and none of the parents may be considered responsible for it. Justify this statement with the help of flow chart showing determination of sex of a newborn.

[3]

12

By drawing ray diagrams, explain the formation of image when an object is placed on the principal axis of a convex lens at the following positions:

- (i) At infinity
- (ii) Beyond 2F₁
- (iii) At 2F₁
- (iv) Between F_1 and $2F_1$
- (v) At focus F₁
- (vi) Between focus F₁ and optical centre O.

[3]

13

An electric lamp, whose resistance is 20 Ω , and a conductor of 4 Ω resistance are connected to a 6 V battery. Calculate (a) the total resistance of the circuit, (b) the current through the circuit, and (c) the potential difference across the electric lamp and conductor.

Fig. An electric lamp connected in series with a resistor of 4 Ω to a 6 V battery

[3]

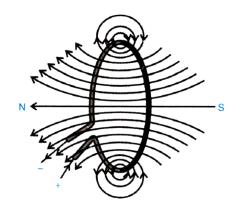
14

Define genetics. What is the contribution of Mendel in this branch of Biology?

[3]

15

The flow of current in a circular loop of wire creates a magnetic field at the centre. How may the existence of this field may be detected? State the rule which helps to predict the direction of the magnet field?



[3]

OR

What are temporary and permanent magnets?

[3]

16

What happens when:

- (i) Lead is heated to 400-500°C in air.
- (ii) Steam is passed over heated iron.

(iii) Copper oxide is heated with magnesium.

(iv) A Likein Sharrew Beoils not in pedicinal head in the Like New Perint - Your Favourite Questions. Join www.zigya.com



17

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- (a) In a tabular form, differentiate between ethanol and ethanoic acid under the following heads:
- (i) Physical state
- (ii) Taste
- (iii) NaHCO₃ test
- (iv) Ester test
- (b) Write a chemical reaction to show the dehydration of ethanol.

[5]

OR

The general formula for alkanes is C_nH_{2n+} . 2. Write the general formulae for alkenes and alkynes.

[2]

OR

Classify the following compounds as alkane, alkene or alkyne.

$$C_3H_4$$
, C_2 , H_6 C_2H_4 , C_6H_{14} , C_2H_2 , C_4H_8 , C_5H_{12} , C_5H_8 , C_3H_8

Explain, how did you arrive at your conclusion in each case.

[3]

18

List the major endocrine glands found in human body. Write their functions.

[5]

19

Discuss the refraction of light through a prism. What are angle of deviation and angle of emergence? How are these angles related to the angle of incidence and the angle of prism?

[5]

20

Draw a schematic diagram of household/domestic wiring. Give its essential features.

[5]

211

[2]

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212

What was Chipko Andolan? How did the Andolan ultimately benefit the local people and the environment?

[3]

Section B

22

When you add about 2 ml of acetic acid to a test tube containing an equal amount of distilled water and leave the test tube to settle after shaking its contents, what will you observe in the test tube after about 5 minutes?

- A. A white precipitate settling at its bottom
- B. A clear colorless solution
- C. A layer of water over the layer of acetic acid.
- D. A layer of water over the layer of acetic acid.

[2]

23

A student takes 2 mL acetic acid in a dry test tube and adds a pinch of sodium hydrogen carbonate to

- it. He makes the following observations:
- I. A colorless and odorless gas evolves with a brisk effervescence.
- II. The gas turns lime water milky when passed through it.
- III. The gas burns with an explosion when a burning splinter is brought near it.
- IV. The gas extinguishes the burning splinter that is brought near it.

The correct observations are:

- A. I, II, and III
- B. II, III and IV
- C. III, IV and I
- D. III, IV and I

[2]

24

During the course of an experiment, 'to determine the percentage of water absorbed by raisins', raisins are weighed

- A. every half an hour.
- B. every hour.

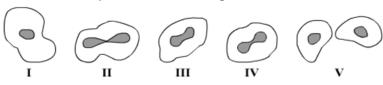
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25

Study the following diagrams showing various stages of binary fission in Amoeba:

The correct sequence of these diagrams should be:



A. I, IV, III,II, V

B. I, III, IV, II, V

C. I, II, IV, III, V

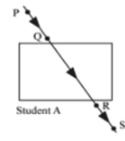
D. I, II, IV, III, V

[2]

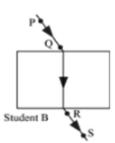
26

Four students A, B, C and D traced the paths of incident ray and the emergent ray by fixing pins P and Q for incident ray and pins R and S for emergent ray for a ray of light passing through a glass slab.

The correct emergent ray was traced by the student:

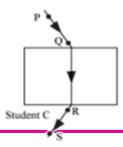


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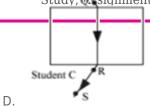


В.

C.



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[2]

27

Of the following groups which one contains good conductors of electricity

- A. iron, nickel and cobalt
- B. mica, distilled water and ceramics
- C. Copper, Silver and Aluminium
- D. diamond, ebonite and wood

[2]