

Chemistry (New)**10th (Fresh/Reappear)**

۱۔ ہر سوال کے سامنے چار دائرے دیئے گئے ہیں، صرف صحیح جواب والا دائرہ بھر دیں۔

۲۔ دائروں کو شیڈ (بھرنے) کے لیے نیلے یا کالے رنگ کا مارکر استعمال کریں۔

۳۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہو گا۔

Time: 15 Minutes**SECTION-A****Marks: 12****Q1: Choose the correct option i.e, A,B,C or D?**

- At higher temperature, the rate of chemical reaction is increase due to.

☒ More kinetic energy	☐ More potential energy
☐ Less kinetic energy	☐ Less potential energy
- Which of the given can accept a pair of electron?

☒ BF_3	☐ NH_3	☐ CO	☐ PH_3
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- Which of the given is a characteristic of organic compound?

☒ Combustible	☐ Fast reaction rate
☐ Polar	☐ Soluble in water
- Functional group of Amines is.

☒ $-\text{NH}_2$	☐ $-\text{CN}$	☐ $-\text{NH}_4$	☐ $-\text{HCN}$
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- Liquid alkanes contains.

☐ 3-10 carbon atoms	☐ 1-4 carbon atom
☒ 5-17 carbon atom	☐ 2-257 carbon atom
- Carbohydrate that can be hydrolyzed into two simple sugar units are.

☒ Disaccharides	☐ Mono saccharides
☐ Poly saccharides	☐ Tetra saccharides
- Which of the given is anthropogenic source of air pollutants?

☐ Volcanic eruption	☒ Burning of wood
☐ Dust storms	☐ Rotting vegetables
- The major pollutant comes from volcanic eruption is.

☐ Volatile organic compounds	☒ Carbon dioxide
☐ Carbon monoxide	☐ Nitrogen dioxide
- Most of the inland water lies.

☐ In canals	☒ In lakes
☐ Underground	☐ In streams
- Water is filtered through sand & gravel bed to remove remaining.

☒ Suspended particles	☐ Dissolved salts
☐ Color and odour	☐ Microorganism
- Resins used in dinnerware and for making extra hard surfaces are.

☐ Urea formaldehydes resin	☐ Polyester resin
☐ Acrylic resins	☒ Melamine formaldehydes resins
- Petroleum is combination of two Latin words Petra & Oleum which means.

☐ Asphalt and Oil

☐ Oil and Salts

☒ Rock and Oil

☐ Rock and Asphalt

PHYSICS 10th (Fresh/Reappear)

Note: Time allowed for Section-B & Section-C is 2:45 Hours.

SECTION-B

Marks: 32

Q2: Answer any EIGHT parts. Each part carries 4 marks?

- Find the value of K_c for the given reaction if the concentration of H_2 is 0.50M, I_2 is 1.50M and HI is 0.75M. $H_{2(g)} \rightleftharpoons 2HI_{(g)}$
- Discuss Bronsted-Lowary concept of acid and bases with reference to formation of NH_4^+ ion and H_3O^+ ion?
- Define mutation, its effect and causes. How they can be repaired?
- What is the role of arrangement of atoms and strength of covalent bond in diversity of organic compounds with examples?
- Write the reaction involves in the formation of Hexyl and Heptyl formed. Also write the name of alkanes from which they are formed?
- Differentiate between the C_4H_{10} (Butane) and C_4H_8 (Butene) molecule with the help of electron dot structure?
- Explain uses of lipids with reference to integral part of cellular structure, solvent, manufacturing and g hormones?
- What are the primary function of Vitamin-A, Vitamin-B, Vitamin-K and Vitamin-E?
- What is the effect of oxides of carbon, nitrogen and sulphur on fishes and wild life?
- What are the effects of hard water when used in boilers and for drinking?
- What is slag? What chemical changes occur in cuprous sulphide in blast furnace?

SECTION-C

Marks: 21

Q3: Attempt any THREE questions. All question carry equal marks?

- (a) What are forward reaction explain with the help of example?
(b) Give structural and condensed formulae of Butane and Butene?
- (a) Write dissociation reactions of the following compounds?
(a) HCl (b) H_2SO_4 (c) HNO_3
(b) Classify the following organic compounds into Ali-cyclic or aromatic organic compounds?
(a) Cyclopentane (b) Benzene
(c) Naphthalene (d) Cyclobutane
- (a) Write dehydrohalogenation reaction of adjacent dihalides?
(b) Differentiate between ozone layer depletion and ozone hole?
- (a) What are poly saccharides? Give example of poly saccharides present in plants and animal (one of each)?
(b) Mention the name of diseases that are caused by using polluted water containing arsenic and fluorine minerals?