

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, PESHAWAR

Secondary School Certificate (S.S.C.) Examination 2018 · 10th (Fresh/Reappear)

Class 10th	CHEMISTRY	PR X (01) 18
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Time Allowed: 15 Minutes

SECTION - A

Marks: 12

Four circles are given against each question. Fill only the circle of the correct answer. Use a blue or black marker/pen. Filling more than one circle will be treated as a wrong answer.

1. Which of the given is a weak acid?	☐ HCl	☐ HNO ₃	☐ H ₂ SO ₄	☐ H ₂ CO ₃
2. Which of the given is not the example of polysaccharides?	☐ Starch	☐ Glycogen	☐ Cellulose	☐ Fructose
3. The quantity of fresh water present on earth surface is only about.....	☐ 2.2%	☐ 2.6%	☐ 0.2%	☐ 0.04%
4. The equilibrium constant (K _c) is the of two rate constants.	☐ Sum	☐ Difference	☐ Ratio	☐ Product
5. Ozone depletion causes	☐ T.B	☐ Malaria	☐ Skin cancer	☐ Blood cancer
6. Which of the given is saturated hydrocarbon?	☐ Alkane	☐ Alkene	☐ Alkyne	☐ Propane
7. The enormous quantity of water present on earth surface act as giant thermostat, due to its high.....	☐ Density	☐ Boiling point	☐ Latent heat values	☐ Heat capacity
8. The next homologue of C ₈ H ₁₈ is.....	☐ C ₇ H ₁₆	☐ C ₉ H ₁₈	☐ C ₉ H ₂₀	☐ None of these
9. The blister copper is refined by.....	☐ Boiling	☐ Electrolysis	☐ Reduction	☐ Concentration
10. Deficiency of which one of the given vitamins causes hemorrhage?	☐ A	☐ D	☐ E	☐ K
11. In how many stages protein synthesis is completed in the cell?	☐ 2	☐ 3	☐ 4	☐ 5
12. Chlorine acts as bleaching agent in the presence of.....	☐ HCl	☐ H ₂ O	☐ NaOH	☐ HNO ₃

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For English Medium Students

Note: Time allowed for Section – B and Section – C is 2 Hours and 45 minutes.

Section – B

Marks: 32

Q-II Answer any EIGHT parts. Each part carries FOUR marks.

1. Why organic compounds are volatile?
2. How can metal be extracted?
3. List the physical properties of ozone.
4. Write down chemical reaction of water with metal oxides and non-metal oxides.
5. How equilibrium constant can be used to predict the direction of reaction?
6. Calculate the PH and POH of 0.05 M HCl solution.
7. Explain chemical properties of alkanes.
8. Describe any four functions of proteins.
9. Write down dehydrohalogenation of dihalides.
10. Define conjugate acid and conjugate base with examples.
11. Explain vitamin B in detail.

Section – C

Marks: 21

Note: Attempt any THREE questions. All questions carry equal marks.

- Q-III** (a) What is soft and hard water? What are the different types of hard water? (4)
 (b) Differentiate between strong acids and weak acids by giving examples. (3)
- Q-IV** (a) Define vitamins. Write a note on fat soluble vitamins. (4)
 (b) What are the various sources of air pollution. (3)
- Q-V** (a) Explain the commercial method of preparation of sodium carbonate. (4)
 (b) Describe branched chain and cyclic alkanes. (3)
- Q-VI** (a) Derive an expression for the equilibrium constant. (3)
 (b) Give addition reaction of alkenes with: (4)
 i. Hydrogen halides ii. halogens iii. Hydrogen

Transcribed and typeset by Tayarri from a publisher's scan of the board paper. The scan arrived with the correct options already shaded in; every option is given here unmarked. No answer key is included.

Section A's instructions are printed in Urdu on the original sheet; they are given here in English.

Board spellings and wording are kept exactly as printed.

Board check: this pair was uploaded as an Abbottabad Board paper, but both sheets carry Peshawar's references "Chemistry Paper – X (01) (18)" and "PR X (01) 18" in Peshawar's layout, so it is filed as Peshawar 2018.

English-medium file. The original sheets are bilingual: Section A prints each question in English and Urdu, and the subjective sheet carries a separate Urdu-medium Section B and C. Only the English medium is reproduced here.

Section A Q.8: the subscripts in the options are blurred in the scan. C₈H₁₈ in the stem is confirmed by the Urdu line; the options are read as C₇H₁₆, C₉H₁₈, C₉H₂₀ — probable, not certain.

Section B Q.6 prints pH and pOH as "pH" and "pOH"; reproduced as printed. Section A Q.6 lists "Propane" alongside the three homologous series.