

کیمسٹری (حصہ انشائی) گروپ پہلا
وقت: 01:45 گھنٹے کل نمبر: 48
(Part - I حصہ اول)

10 Write short answers to any FIVE parts.

Differentiate between reversible and irreversible reactions.

How direction of a reaction can be predicted?

Define functional group with an example.

Write two characteristics of homologous series.

Justify that organic compounds are used as food.

What is the importance of natural gas?

Name two fatty acids with their formulae.

How plants synthesized carbohydrates? Write equation.

10 Write short answers to any FIVE parts.

What is basic salt? Give an example. (1+1)

Define Arrhenius base with an example. (1+1)

What is incomplete combustion of methane? Give its reaction. (1+1)

Give two uses of chloroform. (1+1)

Give chemical reaction in ammonia recovery tower.

What is granulation of urea?

Write composition and boiling range of fuel oil.

How ammonia is prepared by Haber process?

10 Write short answers to any FIVE parts.

Write two sources of oxides of carbon. (1+1)

Name two constituents of troposphere. (1+1)

Write two effects of SO₂ gas. (1+1)

Identify as primary or secondary air pollutants: (½×4)

(a) SO₂ (b) CH₄ (c) HNO₃ (d) H₂SO₄

What do you mean by boiler scales? How are they removed? (1+1)

Differentiate between soft water and hard water. (1+1)

Write two physical properties of water. (1+1)

How hardness of water is removed by Clark's method? Also write equation. (1+1)

حصہ دوم، کوئی سے دو سوالات کے جوابات تحریر کیجیے۔ ہر سوال کے 09 نمبر ہیں۔

Part - II, Attempt any TWO questions. Each question carries 09 marks.

2+2+1

5- (الف) وٹامن کیا ہیں؟ وائٹرسولبل وٹامن کی وضاحت کیجیے اور وٹامن کی اہمیت بیان کیجیے۔

What are vitamins? Describe water soluble vitamins. Write the importance of vitamins.

3+1

(ب) ایکوی لبریم کونسٹنٹ کی تعریف کیجیے۔ دیئے گئے ری ایکشن کے لیے ایکوی لبریم کونسٹنٹ کے یونٹس کی وضاحت کیجیے۔ $N_2 + 3H_2 \rightleftharpoons 2NH_3$

Define equilibrium constant. Explain its units with the given reaction. $N_2 + 3H_2 \rightleftharpoons 2NH_3$

4+1

6- (الف) سالٹس کو نام کیسے دیا جاتا ہے؟ نیز سالٹس کی خصوصیات لکھئے۔

How salts are named? Describe characteristics properties of salts.

3+1

(ب) پانی کی متعددی بیماریوں سے کیا مراد ہے؟ نیز ان سے بچاؤ کے حفاظتی اقدامات بیان کیجیے۔

Define water born diseases. Write measures for the prevention of water born diseases.

05

Write the advantages of Solvay's process.

7- (الف) سالوے پراسیس کے فوائد تحریر کیجیے۔

2+2

Describe two methods for the preparation of alkenes.

(ب) الکینز کی تیاری کے دو طریقے بیان کیجیے۔