

Assessment Scheme

For Chemistry 12th Part II Session 2012-14 & ONWARD
Time: 03:30 hrs Total Marks:- 100

Sr. No	Chapters	Weighage	Distribution of Marks	M.C.Qs			Short Answer Questions			Essay Type Questions			Questions relating to Practicals		
				Allotted Marks 17			Allotted Marks 42			Allotted Marks 26			Allotted Marks 15		
				Q. to be asked 17 Q. to be attempted 17			Q. to be asked 22 Q. to be attempted 14			Q. to be asked 3 Q. to be attempted 2			Q. to be asked 5 Q. to be attempted 3		
				Time 20 Minutes			Time 3 Hours & 10 Minutes								
				K	U	A	Total Marks	K	U	A	Total Marks	K	U	A	Total Marks
1	Periodic classification of elements and Periodicity	7 %	9	-	-	1	1	1	4	-	-	1/2	4		
2	s.Block elements	7 %	9	1	-	-	1	1	1	4	-	1/2	-	4	
3	Group iiiA and ivA elements	7 %	9	-	1	-	1	1	2	8	-	-	-	-	
4	Group vA and vi A elements	9 %	11	-	1	-	1	1	2	2	10	-	-	-	
5	The halogens and nobel gases	6 %	7	1	-	-	1	1	1	1	6	-	-	-	
6	Transition elements	6 %	7	-	1	-	1	1	-	-	2	-	1/2	4	
7	Fundamentals of organic chemistry	6 %	7	-	-	1	1	1	-	-	2	-	1/2	4	
8	Aliphatic hydrocarbons	7 %	8	-	1	1	2	-	-	1	2	-	1/2	4	
9	Aromatic Hydrocabons	7 %	9	1	-	-	1	-	1	1	4	-	-	1/2	4
10	Alkyl halides	7 %	7	1	-	-	1	-	1	-	2	-	-	1/2	4
11	Alcohols Phenols and Ethers	4 %	5	-	1	-	1	-	1	1	4	-	-	-	-
12	Aldehydes and Ketones	9 %	11	-	1	-	1	1	1	1	6	-	-	1/2	4

Question No. 10=25 Marks

13	Carboxylic acids	4 %	5	-	1	-	1	-	-	-	-	-	1/2	4		
14	Macro Molecules	4 %	5	-	-	1	1	1	1	1	4	-	-	-		
15	Common chemical industries in Pakistan	6 %	7	-	-	1	1	1	1	1	6	-	-	-		
														-		
16	Environmental Chemistry	6 %	7	1	-	-	1	1	1	-	2	-	1/2	4		
Total		100 %	123+25	17							66					40

- Important Note:-** 1) K= Knowledge. U= Understanding / Comprehension A= Application & Analysis
- 2) This scheme of Assessment is prepared as per 33% choice in short answer questions, essay questions & questions relating to practicals.
- 3) In order to promote the cause of concept based learning at least 10 % questions must be unseen or of daily life but relating to specified learning outcomes of Curricula & Syllabi. This portion will increase @ 10% annually but not more than 30%.
- 4) The questions relating to practical will be asked from the practical Note Book as per chapter were detail given in the curriculum and syllabi 2006.
- 5) The Practical will be conducted at the end of 12th Class which is mandatory to qualify for award of certificate.
- The Practical assessment will be made in the form of grading as per following criteria.
- A+= 90% & above, A=80% to 89%, B= 70% to 79%, C= 60% to 69%, D= 50% to 59%, E= 40% to 49%, F= Fail = Below 40%

Note: This is Model Paper for guidance of students & teachers.

Model Paper Chemistry Objective

Intermediate Part – II (12th Class) Examination Session 2012-2014 and onward

Total marks: 17 Paper Code _____ Time Allowed: 20 minutes

Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct: fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

Q.1	Question	A	B	C	D
1	ZnO is	Basic	Acidic	Amphoteric	Neutral
2	Na ₂ CO ₃ is called	washing soda	baking soda	caustic soda	soda lime
3	If temperature is dropped from 100c to 10c, the viscosity of petroleum oil may increase to	70 fold	80 fold	90 fold	100 fold
4	N ₂ O is called	Tear gas	Laughing gas	Mustard gas	Phosgene gas
5	The only halogen atom which can directly combine with nobel gas is	F	Cl	Br	I
6	Which of this is non typical transition element?	Cr	Mn	Zn	Fe
7	Tuatomerism arises due to shifting of	Pi electrons	Sigma electrons	Proton	Neutron
8	Synthetic rubber is formed by the polymerization of	Chloroform	Acetylene	Di vinyl acetylene	Chloroprene
9	Preparation of vegetable ghee involves	Hydrogenation	Dehydrogenation	Halogenation	Hydroxylation
10	Benzene cannot undergoes reaction	Substitution	Addition	Oxidation	Elimination
11	Which of this is not a nucleophile?	H ₂ O	H ₂ S	BF ₃	NH ₃
12	Rectified spirit contains alcohol about	80%	85%	90%	95%
13	Which of this compound is used in processing of anti polio vaccine?	Formaldehyde	Acetaldehyde	Benzaldehyde	Salicyldehyde
14	Which of this is not a fatty acid?	Propanoic acid	Acetic acid	Phthalic acid	Butanoic acid
15	Which of this element is not present in all amino acids?	Hydrogen	Carbon	Nitrogen	Sulphur
16	Phosphorous helps the growth of	Root	Leaves	Stem	Seeds
17	Newspaper can be recycled again and again by how many times?	2	3	4	5

(4)

Model Paper Chemistry Subjective

Intermediate Part – II (12th Class) Examination Session 2012-2014 and onward

Total marks: 83

Time: 3:10 hours

SECTION ----- I

2. Answer any Eight parts from the followings:-

8 × 2 = 16

- (i) Alkali compounds give ionic compounds, give reason
- (ii) Give the trend of metallic character in periodic table
- (iii) Give advantage of Down cell method
- (iv) Lime is added in an acidic soil, give reason
- (v) What is chemical garden?
- (vi) CO₂ is gas at room temperature and SiO₂ is solid, give reason
- (vii) Liquid Silicones are generally preferred over ordinary organic liquids give reason
- (viii) What happened when Boric acid is strongly heated
- (ix) NO₂ is an oxidizing agent, prove
- (x) Nitrous acid can behave as reducing agent, prove
- (xi) Give two reactions of Sulphuric acid as dehydrating agent
- (xii) Describe Ring test

3. Answer any Eight parts from the followings:-

8 × 2 = 16

- (i) What is Iodized salt?
- (ii) What are Freon and Teflon?
- (iii) HF is weaker acid than HCl, give reason
- (iv) Damaged tin get rusted quickly. Give reason
- (v) Give importance of refining of Petroleum
- (vi) Give catalytic oxidation of Methane
- (vii) Write the structures of Phenanthrene and Anthracene
- (viii) Convert Benzene to p-chloro nitro benzene
- (ix) SN₂ reactions are second order reactions, Justify
- (x) Prepare ethanol from molasses
- (xi) Write Lucas test
- (xii) Aqua Regia can dissolve gold and Platinum, Give reason

4. Answer any Six parts from the followings:-

6 × 2 = 12

- (i) How will you distinguish between ethanol and methanol
- (ii) Write two uses of Acetaldehyde
- (iii) What is iodine number
- (iv) What is denaturation of protein
- (v) Write down the woody raw materials of paper industry
- (vi) Fertilizers are needed for better production of crops, justify
- (vii) Wet method of preparation of cement is preferred over dry method in Pakistan, give reason
- (viii) Write Silver mirror test
- (ix) Detergents are serious threat to aquatic life, justify

SECTION ----- II

Note: Attempt any three questions.

(8 × 3 = 24)

5.

- (a) Justify the position of Hydrogen in Periodic chart
- (b) Compare the Chemical behavior of Li with Mg

6.

- (a) Describe briefly manufacturing of Wrought iron from Cast iron
- (b) What is cracking discuss its various types

7.

- (a) Describe the acidic nature of alkynes
- (b) Describe Nitration of benzene with mechanism

8.

- (a) Discuss E1 reactions
- (b) Write mechanism of aldol condensation

9.

- (a) What are amino acids discuss their different types briefly
- (b) What are the effects of polluted air on environment

SECTION ----- III

Note: Attempt any three questions**(5x3=15)**

10.

- (i) (a) What are the limitations of Flame test?
(b) Write the chemistry of Chromyl Chloride
- (ii) (c) Give the application of common ion effect in salt analysis
(d) Write down two confirmatory tests for the detection of sodium
- (iii) (a) Write the chemistry of Borax bead test
(b) Write two confirmatory test to detect Sulphite
- (iv) Write the method for the preparation of glucosazone
- (v) How will you detect Nitrogen and various halogens in organic compound?

Result . PK