

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE 1st ANNUAL EXAMINATION, 2026

Name of Subject: Chemistry Paper - II Group: I

Q. Nos	Paper Code 4481	Correct Answer	Paper Code 4483	Correct Answer	Paper Code 4485	Correct Answer	Paper Code 4487	Correct Answer
1	A	Na smaller than Na	A	$AlCl_3$	A	Acetamide	A	HF
2	D	H_2	D	one	D	Saponification	D	Co
3	B	$MgH_2(SiO_2)_4$	C	oxidation	A	Lipase	A	sp^3
4	C	V_2O_5	B	Acetaldehyde	B	Clay	B	Markonikoff rule
5	A	HF	A	Acetamide	B	O_3	A	$AlCl_3$
6	D	Co	D	Saponification	A	Na is smaller than Na	D	one
7	A	sp^3	A	Lipase	D	H_2	C	oxidation
8	B	Markonikoff rule	B	Clay	B	$MgH_2(SiO_2)_4$	B	Acetaldehyde
9	A	$AlCl_3$	B	O_3	C	V_2O_5	A	Acetamide
10	D	one	A	Na smaller than Na	A	HF	D	Saponification
11	C	oxidation	D	H_2	D	Co	A	Lipase
12	B	Acetaldehyde	B	$MgH_2(SiO_2)_4$	A	sp^3	B	Clay
13	A	Acetamide	C	V_2O_5	B	Markonikoff rule	B	O_3
14	D	Saponification	A	HF	A	$AlCl_3$	A	Na smaller than Na
15	A	Lipase	D	Co	D	one	D	H_2
16	B	Clay	A	sp^3	C	oxidation	B	$MgH_2(SiO_2)_4$
17	B	O_3	B	Markonikoff rule	B	Acetaldehyde	C	V_2O_5
18								
19								
20								
Cross Check	A B C D		A B C D		A B C D		A B C D	
Total	6524		6524		6524		6524	

مرئیٹکٹ بابت صحیح سوالیہ پرچہ مارکنگ Key

ہم نے مشنوں کے سرپرستی پرچہ (Subjective & Objective) کو بنظر عمیق چیک کر لیا ہے یہ پرچہ Syllabus کے عین مطابق Set کیا گیا ہے۔ اس سوالیہ پرچہ میں کسی قسم کی کوئی غلطی نہ ہے۔ ہم نے سوالیہ پرچہ کا اردو اور انگریزی Version بھی چیک کر لیا ہے۔ یہ Version آپس میں مطابقت رکھتے ہیں۔ نیز اس پرچہ کی معروفی (MCQs) Key کی بابت تصدیق کی جاتی ہے کہ اس میں بھی کسی قسم کی کوئی غلطی نہ ہے۔ مزید یہ کہ ہم نے Key بنانے سے متعلق دفتر کی جانب سے تیار کردہ ہدایات وصول کر کے ان کا بغور مطالعہ کر لیا ہے اور ان کی روشنی میں Key بنائی ہے۔ نیز سب ایگزامینرز کیلئے تفصیلی مارکنگ ہدایات / مارکنگ سکیم / Rubrics بھی تیار کر دی گئی ہیں۔

Prepared & Checked By:

Dated: 01-06-2026

S.#	Name	Designation	Institution	Mobile No	Signature
1	Dr. M. Tariq Shehzad	Associate Professor	Govt. Graduate College Civil Lines, Multan	0334-6070969	
2	Ch. Muhammad Hafeez	SSS Chemist BS-19	Govt. Lab Model HSS Rangwala Multan	03336249302	
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4	Memona Ramzan	A.P.	Govt. College of Science Multan	0300-7321043	
5					

Re-Checked By: ہم نے درج بالا سوالیہ پرچہ (انشائیہ + معروفی) معروفی "Key" اور ہدایات کے حوالہ سے مکمل طور پر تلی کر لی ہے۔ کسی قسم کی کوئی غلطی نہ ہے۔

1	DI NADIA ADIB	AP	Govt. Graduate College of Science Multan	03007189457	
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02-06-2026

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BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE 1st ANNUAL EXAMINATION, 2026

Name of Subject: Chemistry - Paper 2nd Group: II

Q. Nos	Paper Code 4482	Correct Answer	Paper Code 4484	Correct Answer	Paper Code 4486	Correct Answer	Paper Code 4488	Correct Answer
1	A	Li	A	PVC	C	Zn	C	BF ₃
2	C	MgCO ₃ ·CaCO ₃	D	Acrylic fibre	B	3	A	95% Alcohol
3	B	H ₂ BO ₃	C	Diammonium phosphate	D	Quinoline	D	2-Hexanone
4	D	HPO ₃	B	6-200g	A	AlCl ₃	B	HOOC-CH ₂ -HOOC
5	A	HF	A	Li	C	BF ₃	A	PVC
6	C	Zn	C	MgCO ₃ ·CaCO ₃	A	95% Alcohol	D	Acrylic fibre
7	B	3	B	H ₃ BO ₃	D	2-Hexanone	C	Diammonium phosphate
8	D	HPO ₃	B	6-200g	B	HOOC-CH ₂ -HOOC	B	6-200g
9	A	AlCl ₃	A	HF	A	PVC	A	Li
10	C	BF ₃	C	Zn	D	Acrylic fibre	C	MgCO ₃ ·CaCO ₃
11	A	95% Alcohol	B	3	C	Diammonium phosphate	B	H ₃ BO ₃
12	D	2-Hexanone	D	Quinoline	B	6-200g	D	HPO ₃
13	B	HOOC-CH ₂ -HOOC	A	AlCl ₃	A	Li	A	HF
14	A	PVC	C	BF ₃	C	MgCO ₃ ·CaCO ₃	C	Zn
15	D	Acrylic fibre	A	95% Alcohol	B	H ₃ BO ₃	B	3
16	C	Diammonium phosphate	D	2-Hexanone	D	HPO ₃	D	Quinoline
17	B	6-200g	B	HOOC-CH ₂ -HOOC	A	HF	A	AlCl ₃
18								
19								
20								
Cross Check	A B C D		A B C D		A B C D		A B C D	
Total	5444		5444		5444		5444	

سرٹیفکیٹ بابت تصحیح سوالیہ پرچہ امارنگ Key

ہم نے سوالیہ پرچہ انشائیہ و معروضی (Subjective & Objective) کو بنظر عین چیک کر لیا ہے یہ پرچہ Syllabus کے عین مطابق Set کیا گیا ہے۔ اس سوالیہ پرچہ میں کسی قسم کی کوئی غلطی نہ ہے۔ ہم نے سوالیہ پرچہ کا اردو اور انگریزی Version بھی چیک کر لیا ہے۔ یہ Version آپس میں مطابقت رکھتے ہیں۔ نیز اس پرچہ کی معروضی (MCQs) Key کی بابت تصدیق کی جاتی ہے کہ اس میں بھی کسی قسم کی کوئی غلطی نہ ہے۔ مزید یہ کہ ہم نے Key بنانے سے متعلق دفتر کی جانب سے تیار کردہ ہدایات وصول کر کے ان کا بغور مطالعہ کر لیا ہے اور ان کی روشنی میں Key بنائی ہے۔ نیز سب ایگزامینرز کیلئے تفصیلی مارنگ ہدایات / مارنگ سکیم Rubrics بھی تیار کر دی گئی ہیں۔

Prepared & Checked By:

Dated: 01-06-2026

S.#	Name	Designation	Institution	Mobile No	Signature
1	Dr M. Tariq Shehad	Associate Partner	Govt. Graduate College Civil Lines, Multan	0334-6070969	
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5					

Re-Checked By: ہم نے درج بالا سوالیہ پرچہ (انشائیہ + معروضی) کی معروضی "Key" اور ہدایات کے حوالے سے مکمل طور پر تلی کر لی ہے۔ کسی قسم کی کوئی غلطی نہ ہے۔

1	Dr Nadiya Fariq	F.F.	Govt. Graduate College Multan	0300-7189257	
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02-06-2026

INTERMEDIATE PART-II (12 th Class)		2026 (1 st -A)	Roll No:
CHEMISTRY PAPER-II GROUP-I			
TIME ALLOWED: 2.40 Hours		SUBJECTIVE	MAXIMUM MARKS: 68
NOTE: Write same question number and its parts number on answer book, as given in the question paper.			
SECTION-I			
2. Write answers of any eight parts.			8×2 = 16
(i)	The hydration energies of the different ions are in the given order $Al^{3+} > Mg^{2+} > Na^{+}$. Give reason.		
(ii)	Give any two advantages of Down's cell.		
(iii)	What is Lime water? Give its one use.		
(iv)	How does orthoboric acid react with the given (a) $NaOH$ (b) C_2H_5OH		
(v)	Impure clay is fused easily. Justify.		
(vi)	P_2O_5 is powerful dehydrating agent. Prove it by giving one example.		
(vii)	Write four uses of Sulphuric acid (H_2SO_4).		
(viii)	What is meant by Fuming Nitric Acid?		
(ix)	Ammonium Nitrate cannot be used as fertilizer for paddy rice. Give reason.		
(x)	Explain the term setting of cement.		
(xi)	How are pesticides dangerous to human beings?		
(xii)	Write down names of components of environment.		
3. Write answers of any eight parts.			8×2 = 16
(i)	What is Iodized Salt? Give its use.	(ii)	What are Freons and Teflons?
(iii)	Give two applications of Helium gas.	(iv)	What is Chromyl Chloride Test?
(v)	What is difference between Homocyclic and Heterocyclic compounds?		
(vi)	How will you convert Ethyne into Oxalic acid?		
(vii)	Convert Ethyne into 1, 1 – Dibromoethane.		
(viii)	Define Aldol condensation reaction with an example.		
(ix)	What is the use of Iodoform Test?		
(x)	How will you prepare Amino Acid using Br_2 and NH_3 ?		
(xi)	What are acidic and basic amino acids? Give one example each.		
(xii)	What is Glacial Acetic Acid?		
4. Write answers of any six parts.			6×2 = 12
(i)	What happens when a mixture of benzene vapours and air are passed over heated V_2O_5 ?		
(ii)	Draw the structural formulas of (a) p – Dibenzylbenzene (b) 2, 4, 6 – Trinitrotoluene		
(iii)	Write down steps involved in $E1$ reaction mechanism.		
(iv)	What is Wurtz synthesis? Give an example.		
(v)	Why are the boiling points of alcohols higher than their corresponding alkanes?		
(vi)	Give reactions of ethanol with (a) NH_3 (b) Na		
(vii)	What do you mean by the rancidity of oils and fats?		
(viii)	What are enzymes? Mention two remarkable properties of enzymes.		
(ix)	Write two differences between DNA and RNA.		
SECTION-II			
NOTE: Write answers of any three questions.			3×8 = 24
5.(a)	Define Ionization Energy. Discuss its trend in the periodic table in detail.		4
(b)	Write down peculiar behaviour of Lithium. (Eight points)		4
6.(a)	Explain the manufacturing of wrought iron from cast iron.		4
(b)	Define Water pollution. Explain the factors affecting the quality of water.		1 + 3 = 4
7.(a)	What is cracking? Explain its types.		4
(b)	Describe with mechanism the Aldol condensation reaction. Also give at least two suitable examples.		4
8.(a)	Discuss acidic nature of alkynes with suitable reactions.		4
(b)	How does ethyl bromide react with (i) $Na/ether$ (ii) Na_4Pb (iii) $Zn + HCl$ (iv) NO_2^{-1}		4
9.(a)	Explain the given terms by giving suitable reactions with respect to benzene:		
(i)	Side chain halogenation in Sun Light	(ii) Side chain oxidation	2 + 2 = 4
(b)	Write a note on Lucas Test. Explain with complete reactions and also give its significance.		3 + 1 = 4

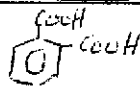
INTERMEDIATE PART-II (12 th Class)		2026 (1 st -A)	Roll No: _____
CHEMISTRY PAPER-II GROUP-II			
TIME ALLOWED: 2.40 Hours		SUBJECTIVE	MAXIMUM MARKS: 68
NOTE: Write same question number and its parts number on answer book, as given in the question paper.			
SECTION-I			
2. Write answers of any eight parts.			8×2 = 16
(i)	How melting and boiling points varied in a period?	(ii)	Write the formulas of (a) Natron (b) Sylvite
(iii)	Why $CaCl_2$ is added during melting of $NaCl$ in Down's cell.		
(iv)	Why silicones are preferred over organic lubricants?		
(v)	Write four uses of sodium silicate.		
(vi)	How Sulphuric acid is used as dehydrating agent. Give two reactions.		
(vii)	Write two dissimilarities of Sulphur and Oxygen.		
(viii)	Write any four uses of Nitric acid.		
(ix)	What do you mean by term "Setting of Cement"?		
(x)	How digestion process is carried out in paper industry?		
(xi)	How the industrial wastes are treated?		
(xii)	Write role of detergents as water pollutants and give its effects.		
3. Write answers of any eight parts.			8×2 = 16
(i)	Why iodine has Metallic Luster? Give brief answer.		02
(ii)	Give any two uses of bleaching powder.		02
(iii)	Name the factors on which oxidizing power of halogens depend.		02
(iv)	Define Ligand. Give two examples.		1+1
(v)	What are Heterocyclic Compounds? Give any two examples.		1+1
(vi)	Convert tertiary alcohols into alkenes by suitable reaction.		02
(vii)	Convert ethene into ethylene glycol by suitable reaction.		02
(viii)	Give any two uses of acetaldehyde.		02
(ix)	Convert acetone into isopropyl alcohol by any suitable reaction.		02
(x)	Draw the structural formula of Glutamic Acid.		02
(xi)	How amino acids are converted into amino esters? Give reaction.		02
(xii)	Differentiate between essential and non-essential amino acids.		02
4. Write answers of any six parts.			6×2 = 12
(i)	Describe with mechanism the Sulphonation of Benzene.		
(ii)	How will you prepare Maleic acid from Benzene by Catalytic oxidation?		
(iii)	Write only the mechanism of S_N1 reaction of Alkyl halide.		
(iv)	Write chemical reaction of Grignard reagent with CO_2 and Ethylene epoxide.		
(v)	Describe Lucas Test with example.		
(vi)	Why and when Alcohols give different products with H_2SO_4 ?		
(vii)	Differentiate between DNA and RNA. (Four points).		
(viii)	Point out one difference between the given: (a) Glucose and Fructose (b) Cellulose and Starch		
(ix)	Define Carbohydrates. How are they classified?		
SECTION-II			
NOTE: Write answers of any three questions.			3×8 = 24
5.(a)	Discuss improvements in the Mendeleev's Periodic Table.		4
(b)	Describe with diagram working of Nelson cell for the manufacturing of Caustic Soda.		4
6.(a)	Explain the given properties transition elements: (i) Oxidation state (ii) Colour formation		4
(b)	How water is purified by passing chlorine gas? Also give the harmful effects of chlorinated water.		4
7.(a)	Discuss the types of structural isomerism with examples.		4
(b)	Define and explain Aldol condensation with reaction mechanism. Also write two suitable examples.		4
8.(a)	How will you convert ethyne into (i) Acetaldehyde (ii) Divinyl acetylene (iii) Glyoxal (iv) Benzene		4
(b)	What products are formed when the given compounds are treated with methyl magnesium bromide, followed by acid hydrolysis? (i) CH_3CHO (ii) $(CH_3)_2CO$ (iii) $HCHO$ (iv) CO_2		4
9.(a)	Prepare benzene by any four methods. Also write reactions of preparation.		4
(b)	How does ethanol react with given compounds? (i) PCl_5 (ii) PCl_3 (iii) $SOCl_2$ (iv) CH_3COOH		4

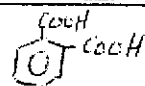
PAPER CODE: 4481		2026 (1 st -A)		Roll No:	
INTERMEDIATE PART-II (12 th Class)					
CHEMISTRY PAPER-II GROUP-I					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM MARKS: 17	
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
S.#	QUESTIONS	A	B	C	D
1	Mark the correct statement:	Na^+ is smaller than Na atom	Na^+ is larger than Na atom	Cl^- is smaller than Cl atom	Cl^- (ion) and Cl (atom) are equal in size
2	Which element is deposited at the cathode during the electrolysis of brine in diaphragm cell?	O_2	Na	Cl_2	H_2
3	The chemical formula of soapstone is:	$CaMg_3(SiO_3)_4$	$Mg_3H_2(SiO_3)_4$	Na_2SiO_3	$K_2O.Al_2O_3.6SiO_2$
4	Which catalyst is used in contact process?	Fe_2O_3	SO_3	V_2O_5	Ag_2O
5	Hydrogen bond is the strongest between the molecules of:	HF	HCl	HBr	HI
6	Which of the given is typical transition metal?	Sc	Y	Ra	Co
7	The state of hybridization of carbon atom in methane is:	sp^3	sp^2	sp	dsp^2
8	The addition of unsymmetrical reagent to an unsymmetrical alkene is in accordance with rule:	Hund's Rule	Markownikov's Rule	Pauli's Exclusion Principle	Aufbau Principle
9	Which one of the given acid can be used as Catalyst in Friedal-Crafts reactions?	$AlCl_3$	HNO_3	$BeCl_2$	$NaCl$
10	In a primary alkyl halide halogen atom is attached with a carbon which is further attached to how many Carbon atom?	Four	Three	Two	One
11	Ethanol can be converted into ethanoic acid by:	Hydrogenation	Reduction	Oxidation	Hydration
12	Cannizzaro's reaction is not given by:	Formaldehyde	Acetaldehyde	Benzaldehyde	Trimethyl-acetaldehyde
13	Which derivative can not be prepared directly from acetic acid?	Acetamide	Acetyl chloride	Acetic anhydride	Ethyl acetate
14	The reaction between fat and $NaOH$ is called:	Esterification	Hydrogenolysis	Fermentation	Saponification
15	Hydrolysis of fat is brought about by:	Lipase	Zymase	Maltase	Urease
16	Which one of the given is not Calcarious material?	Lime	Clay	Marble	Marine shell
17	To avoid the formation of toxic compounds with Cl_2 which substance is used for disinfecting water?	$KMnO_4$	O_3	Alums	Chloramines

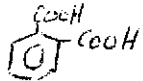
PAPER CODE: 4483		2026 (1 st -A)		Roll No:	
		INTERMEDIATE PART-II (12 th Class)			
CHEMISTRY PAPER-II GROUP-I					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM MARKS: 17	
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
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8	Which one of the given is not Calcareous material?	Lime	Clay	Marble	Marine shell
9	To avoid the formation of toxic compounds with Cl_2 which substance is used for disinfecting water?	$KMnO_4$	O_3	Alums	Chloramines
10	Mark the correct statement:	Na^+ is smaller than Na atom	Na^+ is larger than Na atom	Cl^- is smaller than Cl atom	Cl^- (ion) and Cl (atom) are equal in size
11	Which element is deposited at the cathode during the electrolysis of brine in diaphragm cell?	O_2	Na	Cl_2	H_2
12	The chemical formula of soapstone is:	$CaMg_3(SiO_3)_4$	$Mg_3H_2(SiO_3)_4$	Na_2SiO_3	$K_2O.Al_2O_3.6SiO_2$
13	Which catalyst is used in contact process?	Fe_2O_3	SO_3	V_2O_5	Ag_2O
14	Hydrogen bond is the strongest between the molecules of:	HF	HCl	HBr	HI
15	Which of the given is typical transition meta?	SC	Y	Ra	Co
16	The state of hybridization of carbon atom in methane is:	sp^3	sp^2	sp	dsp^2
17	The addition of unsymmetrical reagent to an unsymmetrical alkene is in accordance with rule:	Hund's Rule	Markownikov's Rule	Pauli's Exclusion Principle	Aufbau Principle

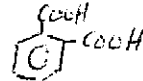
PAPER CODE: 4485		2026 (1 st -A)		Roll No:	
		INTERMEDIATE PART-II (12 th Class)			
CHEMISTRY PAPER-II GROUP-I					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM MARKS: 17	
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S.#	QUESTIONS	A	B	C	D
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4	Which one of the given is not Calcareous material?	Lime	Clay	Marble	Marine shell
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12	The state of hybridization of carbon atom in methane is:	sp ³	sp ²	sp	dsp ²
13	The addition of unsymmetrical reagent to an unsymmetrical alkene is in accordance with rule:	Hund's Rule	Markownikov's Rule	Pauli's Exclusion Principle	Aufbau Principle
14	Which one of the given acid can be used as Catalyst in Friedal-Crafts reactions?	AlCl ₃	HNO ₃	BeCl ₂	NaCl
15	In a primary alkyl halide halogen atom is attached with a carbon which is further attached to how many Carbon atom?	Four	Three	Two	One
16	Ethanol can be converted into ethanoic acid by:	Hydrogenation	Reduction	Oxidation	Hydration
17	Cannizzaro's reaction is not given by:	Formaldehyde	Acetaldehyde	Benzaldehyde	Trimethyl-acetaldehyde

PAPER CODE: 4487		2026 (1 st -A)		Roll No: _____	
		INTERMEDIATE PART-II (12 th Class)			
CHEMISTRY PAPER-II GROUP-I					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM MARKS: 17	
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
S.#	QUESTIONS	A	B	C	D
1	Hydrogen bond is the strongest between the molecules of:	HF	HCl	HBr	HI
2	Which of the given is typical transition metal?	SC	Y	Ra	Co
3	The state of hybridization of carbon atom in methane is:	sp ³	sp ²	sp	dsp ²
4	The addition of unsymmetrical reagent to an unsymmetrical alkene is in accordance with rule:	Hund's Rule	Markownikov's Rule	Pauli's Exclusion Principle	Aufbau Principle
5	Which one of the given acid can be used as Catalyst in Friedal-Crafts reactions?	AlCl ₃	HNO ₃	BeCl ₂	NaCl
6	In a primary alkyl halide halogen atom is attached with a carbon which is further attached to how many Carbon atom?	Four	Three	Two	One
7	Ethanol can be converted into ethanoic acid by:	Hydrogenation	Reduction	Oxidation	Hydration
8	Cannizzaro's reaction is not given by:	Formaldehyde	Acetaldehyde	Benzaldehyde	Trimethyl-acetaldehyde
9	Which derivative can not be prepared directly from acetic acid?	Acetamide	Acetyl chloride	Acetic anhydride	Ethyl acetate
10	The reaction between fat and NaOH is called:	Esterification	Hydrogenolysis	Fermentation	Saponification
11	Hydrolysis of fat is brought about by:	Lipase	Zymase	Maltase	Urease
12	Which one of the given is not Calcareous material?	Lime	Clay	Marble	Marine shell
13	To avoid the formation of toxic compounds with Cl ₂ which substance is used for disinfecting water?	KMnO ₄	O ₃	Alums	Chloramines
14	Mark the correct statement:	Na ⁺ is smaller than Na atom	Na ⁺ is larger than Na atom	Cl ⁻ is smaller than Cl atom	Cl ⁻ (ion) and Cl (atom) are equal in size
15	Which element is deposited at the cathode during the electrolysis of brine in diaphragm cell?	O ₂	Na	Cl ₂	H ₂
16	The chemical formula of soapstone is:	CaMg ₃ (SiO ₃) ₄	Mg ₃ H ₂ (SiO ₃) ₄	Na ₂ SiO ₃	K ₂ O.Al ₂ O ₃ .6SiO ₂
17	Which catalyst is used in contact process?	Fe ₂ O ₃	SO ₃	V ₂ O ₅	Ag ₂ O

PAPER CODE: 4482		2026 (1 st -A)			Roll No: _____
		INTERMEDIATE PART-II (12 th Class)			
CHEMISTRY PAPER-II GROUP-II					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM MARKS: 17	
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
S.#	QUESTIONS	A	B	C	D
1	Among second period elements, the least ionization energy will be of:	Li	Be	B	C
2	Dolomite has a formula of:	NaNO ₃	MgCO ₃	MgCO ₃ .CaCO ₃	BaSO ₄
3	The acid which will give only one H ⁺ when added in water is:	H ₃ PO ₄	H ₃ BO ₃	H ₂ SO ₄	H ₂ CO ₃
4	In cold water P ₂ O _{5(s)} react with water to give:	H ₃ PO ₃	H ₃ PO ₄	HPO ₂	HPO ₃
5	Hydrogen bond is the strongest between the molecules of:	HF	HCl	HBR	HI
6	Which one of the given is a Non-typical transition element?	Cr	Mn	Zn	Fe
7	Pentane has chain isomers:	2	3	4	5
8	2 – Butyne will give Cis–2–Butene when reacted with H ₂ in the presence of:	Na / Liq. NH ₃ / –33° C	Ni / H ₂	LiAlH ₄	Pd(BaSO ₄) / Quinoline
9	Which one of the given acid can be used as a catalyst in Friedel-Crafts reactions?	AlCl ₃	HNO ₃	BeCl ₂	NaCl
10	Which one of the given is not a nucleophile?	H ₂ O	H ₂ S	BF ₃	NH ₃
11	Rectified spirit is:	95 % Alcohol	100 % Alcohol	12 % Alcohol	14 % Alcohol
12	Which one of the given will have the highest Boiling Point?	Methanal	Ethanal	Propanal	2-Hexanone
13	Formula of Malonic acid is:	HOOC – COOH	HOOC – CH ₂ – COOH	H ₅ C ₆ – COOH	
14	Which one of the given is not a thermosetting polymer?	PVC	Synthetic varnish	Epoxy resins	Bakelite
15	The fibre which is made from acrylonitrile as monomer?	PVC	Plastic	Polyamide-resin	Acrylic fibre
16	Nitrogen fertilizer having 75% plant nutrients is:	Urea	Ammonia	Diammonium phosphate	Ammonium nitrate
17	Micro-nutrients are required in quantity ranging from:	4-40 g	6-200 g	6-200 kg	4-40 kg

PAPER CODE: 4484		2026 (1 st -A)		Roll No:	
		INTERMEDIATE PART-II (12 th Class)			
CHEMISTRY PAPER-II GROUP-II					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM MARKS: 17	
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
S.#	QUESTIONS	A	B	C	D
1	Which one of the given is not a thermosetting polymer?	PVC	Synthetic varnish	Epoxy resins	Bakelite
2	The fibre which is made from acrylonitrile as monomer?	PVC	Plastic	Polyamide resin	Acrylic fibre
3	Nitrogen fertilizer having 75% plant nutrients is:	Urea	Ammonia	Diammonium phosphate	Ammonium nitrate
4	Micro-nutrients are required in quantity ranging from:	4-40 g	6-200 g	6-200 kg	4-40 kg
5	Among second period elements, the least ionization energy will be of:	Li	Be	B	C
6	Dolomite has a formula of:	NaNO ₃	MgCO ₃	MgCO ₃ .CaCO ₃	BaSO ₄
7	The acid which will give only one H ⁺ when added in water is:	H ₃ PO ₄	H ₃ BO ₃	H ₂ SO ₄	H ₂ CO ₃
8	In cold water P ₂ O _{5(v)} react with water to give:	H ₃ PO ₃	H ₃ PO ₄	HPO ₂	HPO ₃
9	Hydrogen bond is the strongest between the molecules of:	HF	HCl	HBR	HI
10	Which one of the given is a Non-typical transition element?	Cr	Mn	Zn	Fe
11	Pentane has chain isomers:	2	3	4	5
12	2-Butyne will give Cis-2-Butene when reacted with H ₂ in the presence of:	Na/Liq. NH ₃ / -33°C	Ni / H ₂	LiAlH ₄	Pd(BaSO ₄) / Quinoline
13	Which one of the given acid can be used as a catalyst in Friedel-Crafts reactions?	AlCl ₃	HNO ₃	BeCl ₂	NaCl
14	Which one of the given is not a nucleophile?	H ₂ O	H ₂ S	BF ₃	NH ₃
15	Rectified spirit is:	95 % Alcohol	100 % Alcohol	12 % Alcohol	14 % Alcohol
16	Which one of the given will have the highest Boiling Point?	Mathanal	Ethanal	Propanal	2-Hexanone
17	Formula of Malonic acid is:	HOOC-COOH	HOOC-CH ₂ -COOH	H ₅ C ₆ -COOH	

PAPER CODE: 4486		2026 (1 st -A)		Roll No:	
		INTERMEDIATE PART-II (12 th Class)			
CHEMISTRY PAPER-II GROUP-II					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM MARKS: 17	
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
S.#	QUESTIONS	A	B	C	D
1	Which one of the given is a Non-typical transition element?	Cr	Mn	Zn	Fe
2	Pentane has chain isomers:	2	3	4	5
3	2 – Butyne will give Cis–2–Butene when reacted with H_2 in the presence of:	Na / Liq. NH_3 / –33° C	Ni / H_2	$LiAlH_4$	$Pd(BaSO_4)$ / Quinoline
4	Which one of the given acid can be used as a catalyst in Friedel-Crafts reactions?	$AlCl_3$	HNO_3	$BeCl_2$	$NaCl$
5	Which one of the given is not a nucleophile?	H_2O	H_2S	BF_3	NH_3
6	Rectified spirit is:	95 % Alcohol	100 % Alcohol	12 % Alcohol	14 % Alcohol
7	Which one of the given will have the highest Boiling Point?	Mathanal	Ethanal	Propanal	2-Hexanone
8	Formula of Malonic acid is:	$HOOC-COOH$	$HOOC-CH_2-COOH$	H_5C_6-COOH	
9	Which one of the given is not a thermosetting polymer?	PVC	Synthetic varnish	Epoxy resins	Bakelite
10	The fibre which is made from acrylonitrile as monomer?	PVC	Plastic	Polyamide resin	Acrylic fibre
11	Nitrogen fertilizer having 75% plant nutrients is:	Urea	Ammonia	Diammonium phosphate	Ammonium nitrate
12	Micro-nutrients are required in quantity ranging from:	4-40 g	6-200 g	6-200 kg	4-40 kg
13	Among second period elements, the least ionization energy will be of:	Li	Be	B	C
14	Dolomite has a formula of:	$NaNO_3$	$MgCO_3$	$MgCO_3.CaCO_3$	$BaSO_4$
15	The acid which will give only one H^+ when added in water is:	H_3PO_4	H_3BO_3	H_2SO_4	H_2CO_3
16	In cold water $P_2O_{5(s)}$ react with water to give:	H_3PO_3	H_3PO_4	HPO_2	HPO_3
17	Hydrogen bond is the strongest between the molecules of:	HF	HCl	HBR	HI

PAPER CODE: 4488		2026 (1 st -A)		Roll No:	
		INTERMEDIATE PART-II (12 th Class)			
CHEMISTRY PAPER-II GROUP-II					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM MARKS: 17	
Q.No.1	You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
S.#	QUESTIONS	A	B	C	D
1	Which one of the given is not a nucleophile?	H_2O	H_2S	BF_3	NH_3
2	Rectified spirit is:	95 % Alcohol	100 % Alcohol	12 % Alcohol	14 % Alcohol
3	Which one of the given will have the highest Boiling Point?	Mathanal	Ethanal	Propanal	2-Hexanone
4	Formula of Malonic acid is:	$HOOC - COOH$	$HOOC - CH_2 - COOH$	$H_5C_6 - COOH$	
5	Which one of the given is not a thermosetting polymer?	PVC	Synthetic varnish	Epoxy resins	Bakelite
6	The fibre which is made from acrylonitrile as monomer?	PVC	Plastic	Polyamide resin	Acrylic fibre
7	Nitrogen fertilizer having 75% plant nutrients is:	Urea	Ammonia	Diammonium phosphate	Ammonium nitrate
8	Micro-nutrients are required in quantity ranging from:	4-40 g	6-200 g	6-200 kg	4-40 kg
9	Among second period elements, the least ionization energy will be of:	Li	Be	B	C
10	Dolomite has a formula of:	$NaNO_3$	$MgCO_3$	$MgCO_3 \cdot CaCO_3$	$BaSO_4$
11	The acid which will give only one H^+ when added in water is:	H_3PO_4	H_3BO_3	H_2SO_4	H_2CO_3
12	In cold water P_2O_5 react with water to give:	H_3PO_3	H_3PO_4	HPO_2	HPO_3
13	Hydrogen bond is the strongest between the molecules of:	HF	HCl	HBR	HI
14	Which one of the given is a Non-typical transition element?	Cr	Mn	Zn	Fe
15	Pentane has chain isomers:	2	3	4	5
16	2 - Butyne will give Cis-2-Butene when reacted with H_2 in the presence of:	$Na / Liq.$ $NH_3 / -33^\circ C$	Ni / H_2	$LiAlH_4$	$Pd(BaSO_4) /$ Quinoline
17	Which one of the given acid can be used as a catalyst in Friedel-Crafts reactions?	$AlCl_3$	HNO_3	$BeCl_2$	$NaCl$