

2016 (S) Roll No: _____
INTERMEDIATE PART-II (12th CLASS)

CHEMISTRY PAPER-II

TIME ALLOWED: 3.10 Hours

SUBJECTIVE

MAXIMUM MARKS: 83

NOTE: - Write same question number and its part number on answer book,
as given in the question paper.

SECTION-I

2. Attempt any Eight parts. 8 × 2 = 16
- (i) Ionic character of halides decreases from left to right in a periodic table.
 - (ii) Lanthanides contraction controls the atomic size of 6th and 7th periods.
 - (iii) Alkali and Alkaline earth metals are among the reactive elements of the periodic table. Explain.
 - (iv) How Gypsum is converted into Plaster of Paris?
 - (v) CO₂ is non polar in nature, explain.
 - (vi) Give the name and formula of different oxides of Boron.
 - (vii) How does Nitrogen differ from other elements of its group?
 - (viii) Why does Aqua Regia dissolve Gold and Platinum?
 - (ix) What are Freons and Teflon?
 - (x) Arrange the following ions in order of increasing size:- \bar{F} , \bar{Cl} , \bar{Br} , \bar{I}
 - (xi) Under what conditions does Aluminum Corrode? Explain.
 - (xii) What are Chelates? Explain with suitable example.
3. Attempt any Eight parts. 8 × 2 = 16
- (i) Write formulas of (i) Naphthalene (ii) Anthracene
 - (ii) What is cis – trans Isomerism? Give an example.
 - (iii) Why Pi (π) bond is more reactive than sigma (σ) bond?
 - (iv) With equation give polymerization of Ethene.
 - (v) How Benzene is prepared from Ethyne? Give reaction.
 - (vi) Write chemical equation for combustion of Benzene.
 - (vii) How Grignard's reagent is prepared? Give chemical reaction also.
 - (viii) Give reaction for preparation of primary amine from Alkyl Halide.
 - (ix) How Methanol and Ethanol can be distinguished?
 - (x) Draw structure of Bakelite.
 - (xi) How Acid Rain is produced?
 - (xii) Define C.O.D.
4. Attempt any Six parts. 6 × 2 = 12
- (i) How will you convert Acetaldehyde into Crotonaldehyde?
 - (ii) What is Iodoform Test?
 - (iii) Convert CH₃COOH into Ethanol and Ethane.
 - (iv) What is Strecker Synthesis? Give reaction involved.
 - (v) Give chemical equation for the synthesis of Nylon 6, 6.
 - (vi) What is meant by Primary and Secondary structure of Proteins?

P.T.O

INTERMEDIATE PART-II (12th CLASS)

CHEMISTRY PAPER-II

TIME ALLOWED: 20 Minutes

MAXIMUM MARKS: 17

OBJECTIVE

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. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

Q.No.1

- (1) _____ element has highest value of Ionization Energy.
(A) *K* (B) *Mg* (C) *Na* (D) *He*
- (2) _____ element is collected at Cathode during the electrolysis of aqueous solution of *NaCl*.
(A) *Na* (B) Hydrogen (C) Oxygen (D) Chlorine
- (3) Bauxite is the mineral of:-
(A) *B* (B) *Na* (C) *Al* (D) *K*
- (4) _____ catalyst is used in contact process.
(A) *Fe₂O₃* (B) *Ag₂O* (C) *SO₃* (D) *V₂O₅*
- (5) _____ is the strongest acid.
(A) *HClO₄* (B) *HClO₃* (C) *HClO₂* (D) *HClO*
- (6) The coordination number of *Pt* in $[PtCl(NO_2)(NH_3)_4]$ is:-
(A) 4 (B) 2 (C) 6 (D) 8
- (7) The Hybridization of Carbon atom in Methane is:-
(A) *sp* (B) *sp³* (C) *sp²* (D) *dsp²*
- (8) Preparation of vegetable ghee involves:-
(A) Hydrogenation (B) Halogenation (C) Hydroxylation (D) Dehydrogenation
- (9) During nitration of Benzene, the active nitrating agent is:-
(A) *NO₂* (B) *NO₂⁺* (C) *NO₃* (D) *HNO₃*
- (10) _____ is not a Nucleophile.
(A) *H₂O:* (B) *H₂S:* (C) *NH₃.* (D) *BF₃*
- (11) Rectified Spirit contains Alcohol about:-
(A) 85 % (B) 95 % (C) 90 % (D) 80 %
- (12) _____ compound will not give iodoform test on treatment with *I₂ / NaOH*.
(A) Acetaldehyde (B) Acetone (C) Butanone (D) 3 - pentanone
- (13) The solution of _____ acid is used for seasoning of food.
(A) Formic Acid (B) Acetic Acid (C) Benzoic Acid (D) Carbonic Acid
- (14) The reaction between Fat and *NaOH* is called:-
(A) Saponification (B) Esterification (C) Hydrogenolysis (D) Fermentation
- (15) _____ zones through which the charge passes in a Rotary Kiln.
(A) 4 (B) 3 (C) 2 (D) 5
- (16) Peroxyacetylnitrate (PAN) is an irritant to human beings and it affects:-
(A) Eyes (B) Nose (C) Stomach (D) Ears
- (17) Ecosystem is a smaller unit of:-
(A) Lithosphere (B) Hydrosphere (C) Atmosphere (D) Biosphere

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Q.No.1

- (1) _____ is the strongest acid.
 (A) $HClO_4$ (B) $HClO_3$ (C) $HClO_2$ (D) $HClO$
- (2) The coordination number of Pt in $[PtCl(NO_2)(NH_3)_4]$ is:-
 (A) 4 (B) 2 (C) 6 (D) 8
- (3) The Hybridization of Carbon atom in Methane is:-
 (A) sp (B) sp^3 (C) sp^2 (D) dsp^2
- (4) Preparation of vegetable ghee involves:-
 (A) Hydrogenation (B) Halogenation (C) Hydroxylation (D) Dehydrogenation
- (5) During nitration of Benzene, the active nitrating agent is:-
 (A) NO_2 (B) NO_2^+ (C) NO_3 (D) HNO_3
- (6) _____ is not a Nucleophile.
 (A) $H_2\ddot{O}$: (B) $H_2\ddot{S}$: (C) $\dot{N}H_3$ (D) BF_3
- (7) Rectified Spirit contains Alcohol about:-
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- (14) _____ element has highest value of Ionization Energy.
 (A) K (B) Mg (C) Na (D) He
- (15) _____ element is collected at Cathode during the electrolysis of aqueous solution of $NaCl$.
 (A) Na (B) Hydrogen (C) Oxygen (D) Chlorine
- (16) Bauxite is the mineral of:-
 (A) B (B) Na (C) Al (D) K
- (17) _____ catalyst is used in contact process.
 (A) Fe_2O_3 (B) Ag_2O (C) SO_3 (D) V_2O_5

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(A) K (B) Mg (C) Na (D) He
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(A) Na (B) Hydrogen (C) Oxygen (D) Chlorine
- (6) Bauxite is the mineral of:-
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- (7) _____ catalyst is used in contact process.
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- (8) _____ is the strongest acid.
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BOARD OF INTERMEDIATE AND SECONDARY EDUCATION,

MULTAN ✓ Supply

OBJECTIVE KEY FOR INTER (PART I / II) ANNUAL Examination, 2015

Name of Subject Chemistry

Session 2014-16.

Q. Nos.	Paper Code	Paper Code	Paper Code	Paper Code
	8481	8483	8485	8487
1.	D	A	A	A
2.	B	C	B	A
3.	C	B	D	D
4.	D	A	B	D
5.	A	B	D	B
6.	C	D	B	C
7.	B	B	A	D
8.	A	D	A	A
9.	B	B	A	C
10.	D	A	D	B
11.	B	A	D	A
12.	D	A	B	B
13.	B	D	C	D
14.	A	D	D	B
15.	A	B	A	D
16.	A	C	C	B
17.	D	D	B	A
18.				
19.				
20.				

سرٹیفکیٹ بابت تصحیح سوالیہ پرچہ مارکنگ Key

ہم نے مضمون: chemistry پرچہ: II گروپ: سکیم انٹرمیڈیٹ امتحان 2015ء کا سوالیہ پرچہ تصحیح اور معروضی

(Subjective & Objective) کو بنظر عمیق چیک کر لیا ہے یہ پرچہ سلیبس 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 اور سلیبس (Syllabus)

کے مطابق بھی ہیں۔ نیز اس پرچہ کی Key کی بابت بھی تصدیق کی جاتی ہے کہ یہ بھی درست بنائی گئی ہے 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 و اصول کر کے ان کا بنور مطالعہ کر لیا ہے اور ان کی روشنی میں Key بنائی ہے۔

PREPARED & CHECKED BY

Sr.No	Name	Designation	Institution	Mobile No.	Signature.
1-	<u>Khalid Mateen</u>	<u>Associate prof</u>	<u>Govt Emerson College Multan</u>	<u>0322-6114844</u>	<u>[Signature]</u>
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تانیوی و اعلیٰ تانیوی تعلیمی بورڈ، ملتان

2-11-2016ء نمبر: Chemistry پرچہ II گروپ

جملہ ہدایات کے مارگل Key نوٹس اور اسکیم (مارگل اسکیم)

انٹرنیٹ فرسٹ اینڈ سائنز امتحان 2016ء
Section-I

- Q 2 (i) Correct answer 02 marks
(ii) Correct answer 02 marks
(iii) Correct answer 02 marks
(iv) Correct answer 02 marks
(v) Correct answer 02 marks
(vi) Two names & two formulas $\frac{1}{2} \times 4 = 02$
(vii) Any four differences $\frac{1}{2} \times 4 = 02$
(viii) Correct answer with equations 1+1
(ix) Correct answer 1+1
(x) Correct answer 02 marks.
(xi) Correct answer 02 marks
(xii) Correct definition = 01 mark
One Example = 01 mark.

- Q 3 (i) Correct formulas = 1+1 mark
(ii) Correct definition = 01 mark
One example = 01 mark
(iii) Correct answer = 02 marks
(iv) Correct equation = 02 marks
along with conditions
(v) Correct equation = 02 marks
along with conditions
(vi) Correct equation = 02 marks
(vii) Preparation = 01 mark
Chemical Reaction = 01 mark
(viii) Two marks for correct preparation
(ix) 02 marks for correct identification
(x) Correct structure = 02 marks
(xi) Correct answer = 02 marks
(xii) Correct definition = 02 marks

- Q 4 (i) Correct conversion = 02 marks.
(ii) Correct answer with equation = 01+01 mark.
(iii) Correct conversions = 01+01 mark
(iv) Correct equation = 02 marks

ثانوی و اعلیٰ ثانوی تعلیمی بورڈ، ملتان

موضوع: Chemistry، پرچہ: II، گروپ: 2-11-2016

جنرل ہدایات برائے مارکنگ Key نیو اسکیم (مارکنگ اسکیم)

انٹرنیٹ فرسٹ ایکنڈ ساکنڈ سمنی امتحان 2016ء

- (v) Correct equation = 02 marks
(vi) Correct answer = 01+01 mark.
(vii) Definition = 01 mark, Information = 01 mark.
(viii) Correct answer = 02 marks
(ix) Correct answer = 02 marks.

Section-II

Q5 (a) Correct description = 04 marks

b) Description = 01 mark, Diagram = 01 mark.
Correct Equations = 02 marks

Q6 (a) 01 mark for each method = (01 x 4) = 04 marks

(b) Any four points 01 x 4 = 04 marks

Q7 (a) Description = 03 marks, Equation = 01 mark

(b) Correct explanation = 04 marks

Q8 (a) Equation = 01 mark, Mechanism = 03 marks

(b) Definition = 01 marks, Three examples = 1 x 3 = 03 marks

Q9 (a) Definition = 01 mark, Classification = 03 marks
with examples

b) Explanation = 02 marks, Resonance structures = 02 marks.

Q10

i) Group identification = 01 mark

ii) Radical identification = 01 marks

iii) Two Confirmatory Tests = $1\frac{1}{2} \times 2 = 03$ marks

iv) Any five points (1 x 5) = 05 marks

v) Material = 01 mark.

Equation = 01 mark

Procedure = 03 marks.

Avoid fractional marking, Please.

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General Instructions