STANDARD: 12 SCIENCE . CHEMISTRY

Board Question Papers (Part-1 and Part-2) with Chapterwise Test: Part-2

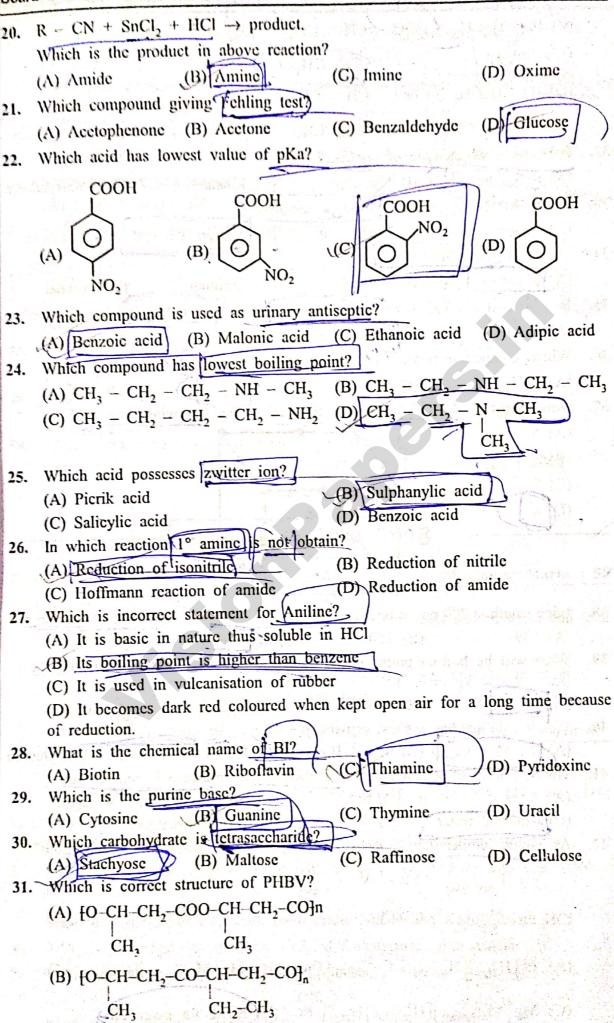
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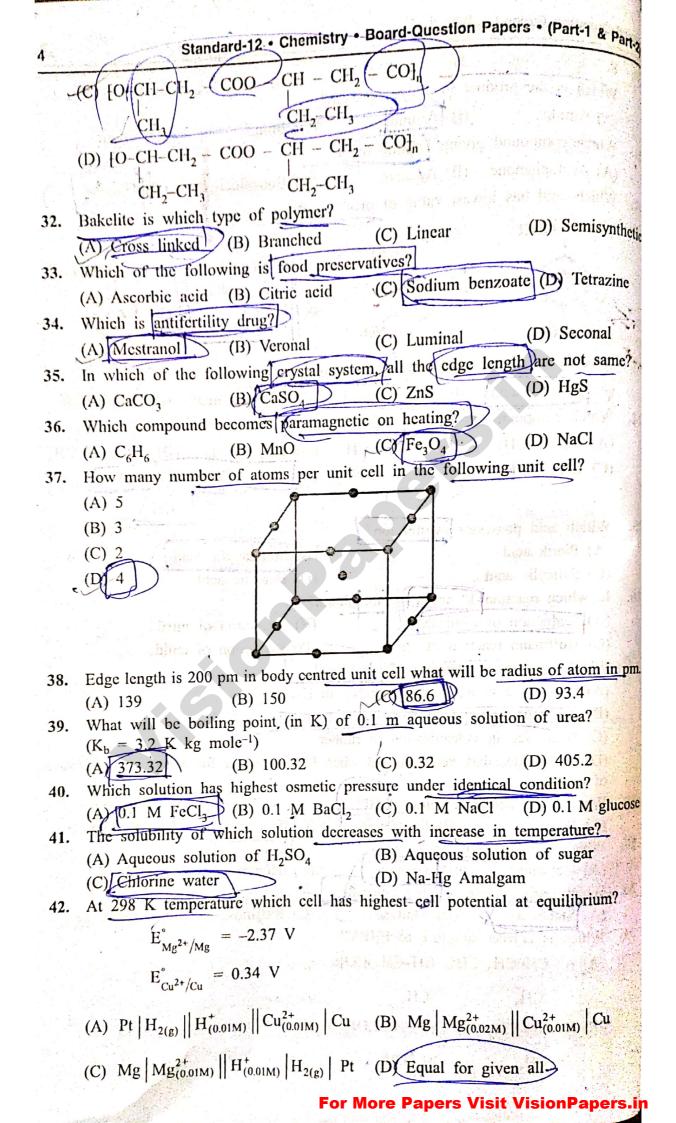
BOARD QUESTION PAPER-1

Stanard-12
CHEMISTRY
Part-1 & 2

JULY 2018 (052) (E)

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Time: 1 II		-	- 1 - M/ (5 - 1	PART-A	1 4	h hear	[Maximum m	
Instruction	(2) (3) (4)	question The question I mark Read enthe O. The Oleach question the circ	ins are concessions are concessions are concession. M.R. sheet mestion is recle of	npulsory. c scrially not on carefully t. is given for represented the correct	answe answe	t proper all ring the question, (B)	to 50 and ca ternative and uestions. The (C) (), (D) (l-pen. ided for this p	ch carries answer in answer of . Darken
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(A) _(G)	4 - chl	oro cycl	ohex - 1 - 2 - ene	- ene	(D) (1	- chloro	cyclohex - 1 ethyl) benze which name?	
) Wartz		pressure (B) Swar			inkelstein		gnard
(A) CH ₂ Cl	2	(B) CCI	fire exting	(C) C	HCl ₃	. (D) DD	T
(A) (C)	Oxidat	ion of a	lcohol with	metal	(B) E (P) R	sterification	of alcohol 1, 4 - Benz	oquinone?
6. W	h) 1 : 3 hich of h) CH ₃ - C) C ₆ H ₅	- O C	₂ H ₅	ymmetrical	ether?	$\frac{1}{C_6H_5-O}$	(D) 2 : - C ₆ H ₅ D-C ₃ H ₇	iedi Mi





Board Question Paper-1 : July 2018
43. For which compound graph of $\bigwedge_{m} \to \sqrt{C}$ is not straight line? (B) KCl (C) NaCl (B) ICN
44. What will be change in pH during electrolysis of aqueous solution of Cuso4 by
using inert electrodes?
(A) Remain constant (B) Decrease
(C) Increase (D) Increases and then decreases
45. Which mixture acts as cathode in mercury cell? (D) $Z_{n} = \frac{Hg}{CdO}$
(A) KOH + ZnO (B) MnO ₂ + C (C) HgO + C (D) Zn - Hg / CdO
46. Which is not method for concentration of ores! (C) Wroth floatation (D) Washing
(C) Froth floatation (D) Washing (E) Equation (B) Leaching (C) Froth floatation (D) Washing (E) Equation (D) Washing (E) Equation (E) E
47. Which reaction occurs at more than 1200 K temperature in Blast furnace. (A) Fe ₂ O ₂ + CO ₄ \Rightarrow 2 FeO + CO _{2(g)} (B) Fe ₃ O ₄ + CO _{1(g)} \Rightarrow 3 FeO + CO _{2(g)}
$(C) 3Fc O_{c} + CO_{c} \rightarrow 2 Fc_{2}O_{c} + CO_{2}O_{c} \rightarrow Fc + CO_{2}O_{c}$
48. Which is the hybridisation of central atom of XeF compound?
(A) $\operatorname{sp}^3 d$ (B) $\operatorname{sp}^3 d^3$ (C) $\operatorname{sp}^3 d^2$ (D) $\operatorname{d}^2 \operatorname{sp}^3$
49. Which element has positive value of electron gain enthalpy?
(A) Nc (B) Cl (C) N (D) O
50. Which compound is used in bleaching of flour?
(A) SO ₂ (B) Cl ₂ (C) O ₃ (D) NaOCl
Answer the following the follo
PART-B: July 2018
Time: 2 Hours]
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State the classification amino acids.

- 6. State the reaction to prepared Teffon and give its two uses.
- 7. Write name of monomers of Glyptal and structure of Glyptal.
- 8. What are non-narcotic analgesic drugs? Give two examples.

SECTION-B

- Answer the following Q.No. 9-14 in detail, 3 marks for each question. [18]
- 9. The potential of the given following cell is 0.46 V at 298 K temperature, calculate the pH of HCl solution. $\left(E_{CV/CV}^2\right)^2 = -0.34 \text{ V}$

$$^{\Theta}$$
Pt $\left| H_{2_{(1bar)}} \right| HCl_{(x|M)} \left\| Cu_{(0.02M)}^2 \right\| Cu_{(s)}$

OR

For how much time 4.8 ampere current should be passed through 100 ml 0.025 M AgNO₃ solution during the electrolysis so that Ag is completely deposited?

- 10. Draw the structure of orthophosphorus, orthophosphorus and pyrophosphoric acid, Also gives order of acidic strength.
- 11. Explain reaction mechanism with figure of reaction of tertiary butyl chloride with aqueous NaOH.
- 12. Explain Langmuir adsorption isotherm.
- 13. Describe cross aldol condensation reaction between acctone and acetaldehyde.
- 14. Give conversion in three steps: Benzonitrile from chlorobenzene.

SECTION-C

- Answer the following Q. No. 15-18 essay type questions in detail, 4 marks for each question.
- 15. State and prove Raoult's law for non-volatile solute. Hence derive formula to determine molecular mass of solute.
- 16. Write the reaction to prepared salicylic acid from phenol and state the structural formula and use of methyl salicylate and Aspirin.
- 17. A first order reaction completed 40% in 30 min at 298 K temperature. Same reaction is completed 50% in 10 min at 318 K temperature. What will be the energy of activation of reaction.

OR

Half reaction time for decomposition of H_2O_2 (first order reaction) is 360 min. at 380°C temperature. Energy of activation of reaction is 200 kJ mole'. What will be time required for 75% decomposition at 450°C temperature.

18. Explain hybridisation, geometrical shape and magnetic property of [Ni(NH₃)₂Cl₂] complex. Draw their isomers.

BOARD Q. PAPER-1: JULY 2018: SOLUTION

PART-A

1. (C) 1 - chloro but - 2 - enc

2. (B) Swartz

3. (B) CCl₄

4. (C) Reaction of alcohol with metal

5. (C) 3:1

6. (B) $C_6H_5 - O - C_6H_5$

7. (C) -50

8. (C) $[R]_0$

9. (B) Third

10. (A) Cu / ZnO - Cr₂O₃

11. (C) Anode

12. (B) KCl

13. (A) Nitinol

14. (D) Fe³⁺

15. (C) 6 and 8 3 3 3 3 3 3

16. (B) Gd₂(SO₄)₃

17. (C) $eg^4 t_2 g^3$

18. (C) Potassium ferricyanide

19. (A) 5

20. (B) Amine

21. (D) Glucose

22. (C) COOH NO₂

23. (A) Benzoic acid

24. (D) CH₃/CH₂ - N CH₃
CH₃

25. (B) Sulphanylic acid

26. (A) Reduction of isonitrile

27. (B) Its boiling point is higher than benzene

28. (C) Thiamine

29. (B) Guanine

30. (A) Stachyosc

31. (C) {O-CH-CH₂ - COO - CH - CH₂ - CO}_n
CH₃ CH₂-CH₃

32. (A) Cross linked

33. (C) Sodium benzoate

34. (A) Mestranol

35. (B) CaSO₄

36. (C) Fe₃O_{4 rodge} bottom side a

37. a(D) 4 notion will lessin-impa

38. (C) 86.6

39. (A) 373.32 Hay and the hay

40. (A) 0.1 M FeCl₃

41. (C) Chlorine water

42. (D) Equal for given all

43. (D) HCN

44. (B) Decrease

45. (C) HgO + C

46. (A) Liquation

47. (D) FeO + $CO_{(g)} \rightarrow Fe + CO_{2(g)}$

48. (C) sp³d²

49. (A) No

50. (C) O₃