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(Main)

PAPER-1 (B.E./B. TECH.)

2023

COMPUTER BASED TEST (CBT) Questions & Solutions

Date: 10 April, 2023 (SHIFT-1) | TIME : (9.00 a.m. to 12.00 p.m)

Duration: 3 Hours | Max. Marks: 300






SUBJECT: CHEMISTRY

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PART : CHEMISTRY

61. Given below are two statements:
Statement I : Aqueous solution of $K_2Cr_2O_7$ is preferred as a primary standard in volumetric analysis over $Na_2Cr_2O_7$ aqueous solution.

Statement II : $K_2Cr_2O_7$ has a higher solubility in water than $Na_2Cr_2O_7$.

In the light of the above statements, choose the correct answer from the options given below :

- (1) Both Statement I and Statement II are true
- (2) Statement I is false but Statement II is true
- (3) Both statement I and statement II are false
- (4) Statement I is true but statement II is false

Ans. NTA : (4)

Reso : (4)

Sol. (i) Potassium dichromate is used as a primary standard in volumetric analysis.
(ii) $K_2Cr_2O_7$ is less soluble in water than $Na_2Cr_2O_7$.
Sodium salt has a greater solubility in water and is extensively used as an oxidising agent in organic chemistry.

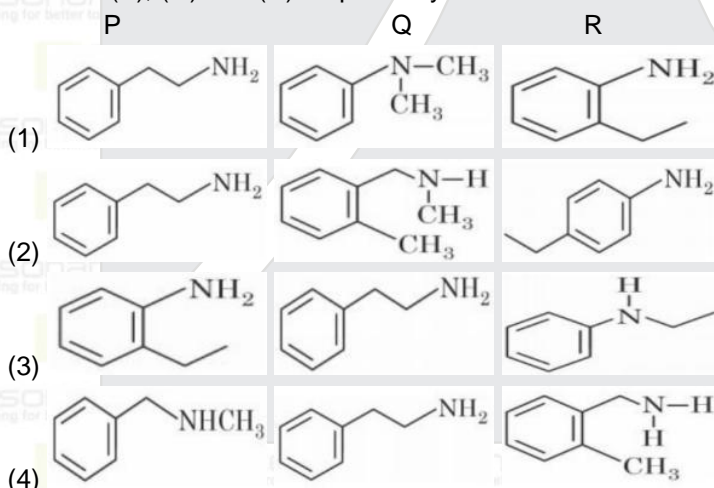
62. Isomeric amines with molecular formula $C_8H_{11}N$ give the following tests

Isomer (P) \Rightarrow Can be prepared by Gabriel phthalimide synthesis

Isomer (Q) \Rightarrow Reacts with Hinesburg's reagent to give solid insoluble in NaOH

Isomer (R) \Rightarrow Reacts with HONO followed by β -naphthol in NaOH to give red dye.

Isomers (P), (Q) and (R) respectively are



Ans. NTA : (2)

Reso : (2)

Sol. (P) Gabriel synthesis is used for the preparation of aliphatic primary amines. Aromatic primary amines cannot be prepared by this method.
(Q) 2° amine react with Hinsberg's reagent to give solid insoluble in NaOH.
(R) Aromatic amines react with nitrous acid at low temperatures (273-278 K) to form diazonium salts, which form red/orange dye with β -Naphthol.

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63. The number of molecules and moles in 2.8375 litres of O₂ at STP are respectively

- (1) 7.527×10^{22} and 0.125 mol
- (2) 7.527×10^{22} and 0.250 mol
- (3) 7.527×10^{23} and 0.125 mol
- (4) 1.505×10^{22} and 0.250 mol

Ans. NTA : (1)

Reso : (1)

Sol. $\frac{2.8375}{22.7} = 0.125$ mol

$0.125 \times 6.02 \times 10^{23} = 7.527 \times 10^{22}$ molecules

64. Match List I with List II

	List-I Industry		List-II Waste Generatedd
(A)	Steel plants	(i)	Gypsum
(B)	Thermal power plants	(ii)	Fly ash
(C)	Fertilizer industries	(iii)	Slag
(D)	Paper mills	(iv)	Bio-degradable wastes

Choose the correct answer from the options given below :

- (1) (A) – (ii) ; (B) – (iii) ; (C) – (iv) ; (D) – (i)
- (2) (A) – (iii) ; (B) – (ii) ; (C) – (i) ; (D) – (iv)
- (3) (A) – (iii) ; (B) – (iv) ; (C) – (i) ; (D) – (ii)
- (4) (A) – (iv) ; (B) – (i) ; (C) – (ii) ; (D) – (iii)

Ans. NTA : (2)

Reso : (2)

Sol. Biodegradable wastes are generated by cotton mills, food processing units, paper mills, and textile factories.

Non-biodegradable wastes are generated by thermal power plants which produce fly ash; integrated iron and steel plants which produce blast furnace slag and steel melting slag. Fertilizer industries produce gypsum.

65. The enthalpy change for the adsorption process and micelle formation respectively are

- (1) $\Delta H_{\text{ads}} < 0$ and $\Delta H_{\text{mic}} < 0$
- (2) $\Delta H_{\text{ads}} < 0$ and $\Delta H_{\text{mic}} > 0$
- (3) $\Delta H_{\text{ads}} > 0$ and $\Delta H_{\text{mic}} < 0$
- (4) $\Delta H_{\text{ads}} > 0$ and $\Delta H_{\text{mic}} > 0$

Ans. NTA : (2)

Reso : (2)

Sol. Enthalpy of Adsorption is negative because attraction force increases in Adsorption. Enthalpy of formation of micelle is in general positive.

66. Suitable reaction condition for preparation of Methyl phenyl ether is

- (1) Ph –Br, MeO[⊖]Na[⊕]
- (2) PhO[⊖]Na[⊕], MeOH
- (3) PhO[⊖]Na[⊕], MeBr
- (4) Benzene, MeBr

Ans. NTA : (3)






Reso : (3)

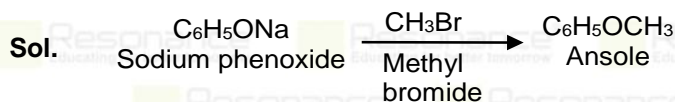
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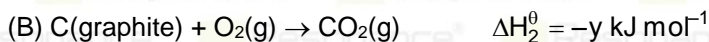
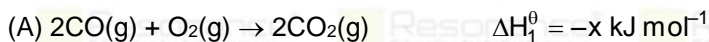
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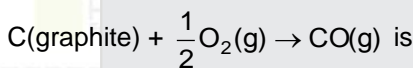


This reaction is Williamson's reaction and it is used for the preparation of simple as well as mixed ethers.

67. Given



The ΔH° for the reaction



(1) $\frac{x-2y}{2}$

(2) $2y-x$

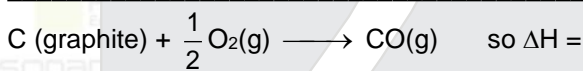
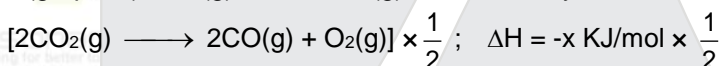
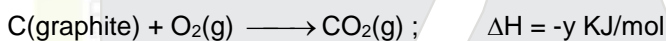
(3) $\frac{2x-y}{2}$

(4) $\frac{x+2y}{2}$

Ans. NTA : (1)

Reso : (1)

Sol. From equation (ii) - $\frac{(i)}{2}$ = target equation



So ΔH for target equation = $-y - \left(\frac{-x}{2}\right) = -y + \frac{x}{2}$
 $= \frac{x-2y}{2} \text{ KJ/mol}$

68. Prolonged heating is avoided during the preparation of ferrous ammonium sulphate to

- (1) prevent hydrolysis
- (2) prevent breaking
- (3) prevent oxidation
- (4) prevent reduction

Ans. NTA : (3)

Reso : (3)






Sol. On Prolong heating some ferrous ions (Fe^{+2}) oxidised to ferric ions (Fe^{+3}). So in solution ferrous ammonium sulphate present with some ferric ion (Fe^{+3})

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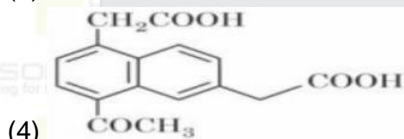
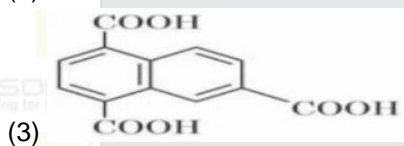
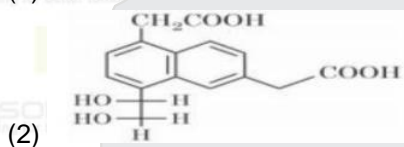
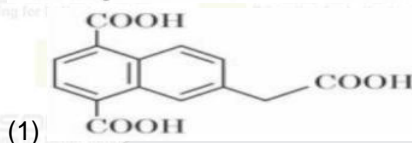
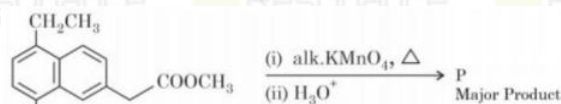
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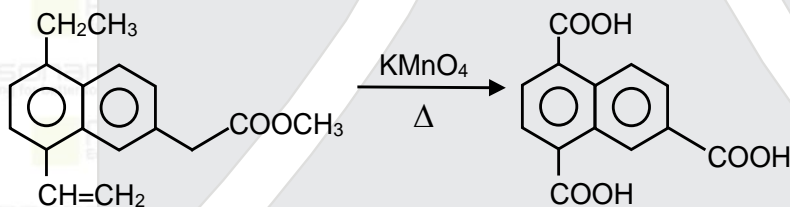
69. The major product 'P' formed in the given reaction is



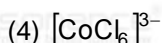
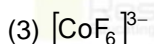
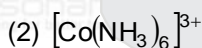
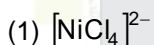
Ans. NTA : (3)

Reso : (3)

Sol. Benzylic carbon gets oxidised into carboxylic acid in presence of KMnO_4 and heat.



70. The octahedral diamagnetic low spin complex among the following is



Ans. NTA : (2)

Reso : (2)

Sol. In $[\text{Co}(\text{NH}_3)_6]^{3+}$, NH_3 is strong field ligand. $\text{Co}^{3+} \Rightarrow d^6 \Rightarrow t_{2g}^{2,2,2} e_g^{0,0}$

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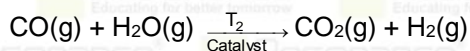
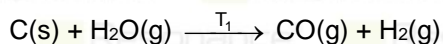
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71. Given below are two reactions, involved in the commercial production of dihydrogen (H₂). The two reactions are carried out at temperature "T₁" and "T₂", respectively

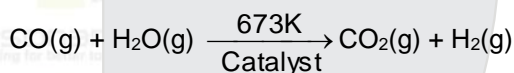
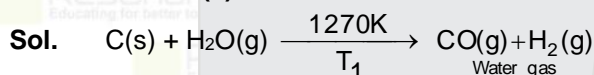


The temperatures T₁ and T₂ are correctly related as

- (1) T₁ = T₂
- (2) T₁ < T₂
- (3) T₁ > T₂
- (4) T₁ = 100K, T₂ = 1270K

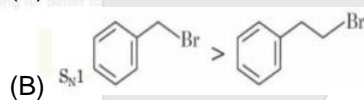
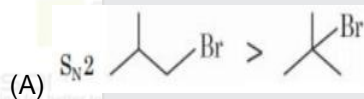
NTA Ans. (3)

Reso Ans. (3)



so (T₁ > T₂)

72. Identify the correct order of reactivity for the following pairs towards the respective mechanism



Choose the correct answer from the options given below:

- (1) (A), (B), (C) and (D)
- (2) (A), (B) and (D) only
- (3) (B), (C) and (D) only
- (4) (A), (C) and (D) only

Ans. NTA : (1)

Reso : (1)



Reactivity of $\text{S}_{\text{N}}1 \propto$ Stability of carbocation.

Reactivity of electrophilic substitution reaction \propto Electron density.






Reactivity of Nucleophilic substitution reaction $\propto \frac{1}{\text{Electron density}}$.

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73. Using column chromatography, mixture of two compounds 'A' and 'B' was separated. 'A' eluted first, this indicates 'B'

- (1) low R_f , stronger adsorption (2) high R_f , stronger adsorption
(3) low R_f , weaker adsorption (4) high R_f , weaker adsorption

Ans. NTA : (1)

Reso : (1)

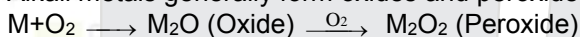
Sol. Theory Based

74. The compound which does not exist is
(1) NaO_2 (2) $(\text{NH}_4)_2\text{BeF}_4$ (3) BeH_2 (4) PbEt_4

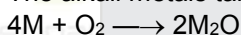
Ans. NTA : (1)

Reso : (1)

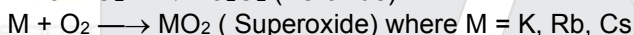
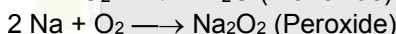
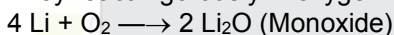
Sol. Alkali metals generally form oxides and peroxides.



The alkali metals tarnish in dry air due to the formation of their oxides on their surface.



They react vigorously in oxygen forming following oxides.



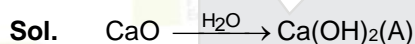
Principal Combustion Product (Minor Product)			
Metal	Oxide	Peroxide	Superoxide
Li	Li_2O	(Li_2O_2)	
Na	(Na_2O)	Na_2O_2	
K			KO_2 (Orange/Yellow Crystalline)
Rb			RbO_2 (Orange/Yellow Crystalline)
Cs			CsO_2 (Orange/Yellow Crystalline)

75. Lime reacts exothermally with water to give 'A' which has low solubility in water. Aqueous solution of 'A' is often used for the test of CO_2 , a test in which insoluble B is formed. If B is further reacted with CO_2 then soluble compound is formed. 'A' is

- (1) White lime (2) Quick lime (3) Lime water (4) Slaked lime

Ans. NTA : (4)

Reso : (4)



76. Which of the following statements are correct?

- (A) The $\text{M}^{3+}/\text{M}^{2+}$ reduction potential for iron is greater than manganese.
(B) The higher oxidation states of first row d-block elements get stabilized by oxide ion.
(C) Aqueous solution of Cr^{2+} can liberate hydrogen from dilute acid.
(D) Magnetic moment of V^{2+} is observed between 4.4 – 5.2 BM.

Choose the correct answer from the options given below :

- (1) (A), (B) only (2) (A), (B), (D) only
(3) (B), (C) only (4) (C), (D) only

Ans. NTA : (3)

Reso : (3)

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- Sol.** (A) Mn^{+2} is having stable d^5 configuration
 (B) CrO_4^{-2} , MnO_4^-
 (C) $Cr^{+2}(aq) + H^+(aq) \longrightarrow Cr^{+3}(aq) + H_2\uparrow$
 (D) three unpaired e^- , therefore it is 3.87 BM

77. Match List I with List II

List I (Polymer)

- (A) Nylon-2-Nylon-6
 (B) Buna-N
 (C) Urea-formaldehyde resin
 (D) Dacron

List II (Type/class)

- (i) Thermosetting polymer
 (ii) Biodegradable polymer
 (iii) Synthetic rubber
 (iv) Polyester

Choose the correct answer from the options given below :

- (1) (A) – (iv), (B) – (i), (C) – (iii), (D) – (ii)
 (2) (A) – (ii), (B) – (i), (C) – (iv), (D) – (iii)
 (3) (A) – (ii), (B) – (iii), (C) – (i), (D) – (iv)
 (4) (A) – (iv), (B) – (iii), (C) – (i), (D) – (ii)

Ans. NTA : (3)

Reso : (3)

- Sol.** Nylon-2-Nylon-6 is biodegradable polymer
 Buna-N is synthetic rubber
 Urea-formaldehyde resin is thermosetting polymer
 Dacron is polyester

78. Which of the following is used as a stabilizer during the concentration of sulphide ores?

- (1) Pine oils (2) Xanthates (3) Fatty acids (4) Cresols

Ans. NTA : (4)

Reso : (4)

- Sol.** In Froth floatation process, a suspension of the powdered ore is made with water. To it, collectors and froth stabilisers are added. Collectors (e. g. xanthates, etc.) enhance non-wettability of the mineral particles and froth stabilisers (e. g., cresols, aniline) stabilise the froth.

79. The one that does not stabilize 2° and 3° structures of proteins is

- (1) – O – O – linkage (2) H-bonding
 (3) vander waals forces (4) – S – S – linkage

Ans. NTA : (1)

Reso : (1)

- Sol.** The main forces which stabilise the 2° and 3° structures of proteins are hydrogen bonds, disulphide linkages, van der Waals and electrostatic forces of attraction.

80. The pair from the following pairs having both compounds with net non-zero dipole moment is

- (1) cis-butene, trans-butene
 (2) 1,4-Dichlorobenzene, 1,3-Dichlorobenzene
 (3) CH_2Cl_2 , $CHCl_3$
 (4) Benzene, anisidine

Ans. NTA : (3)

Reso : (3)

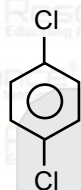
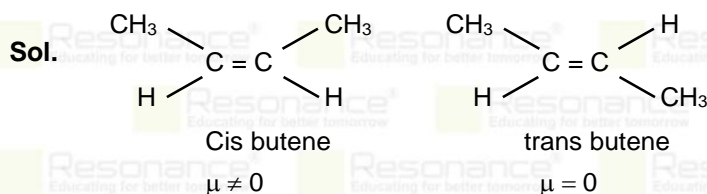
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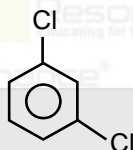


1,4-Dichlorobenzene

$\mu = 0$



$\mu \neq 0$



1,3-Dichlorobenzene

$\mu \neq 0$

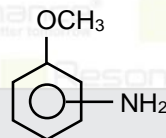


$\mu \neq 0$



Benzene

$\mu = 0$



Anisidine

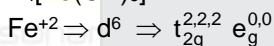
$\mu \neq 0$

81. In potassium ferrocyanide, there are _____ pairs of electrons in the t_{2g} set of orbitals.

Ans. NTA : 3

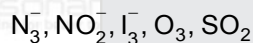
Reso : 3

Sol. $\text{K}_4[\text{Fe}(\text{CN})_6]$



Number of electron pair in t_{2g} orbitals = 3

82. The number of bent-shaped molecule/s from the following is _____



Ans. NTA : 3

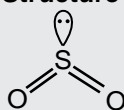
Reso : 3

Sol. Molecule/Species

Structure

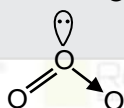
Shape

SO_2



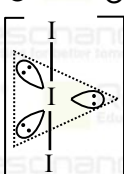
Bent

O_3



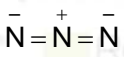
Bent

I_3^-



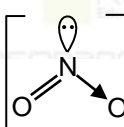
Linear

N_3^-



Linear

NO_2^-



Bent

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83. A molecule undergoes two independent first order reactions whose respective half lives are 12 min and 3 min. If both the reactions are occurring then the time taken for the 50% consumption of the reactant is _____ min. (Nearest integer)

Ans. NTA : 2

Reso : 2

Sol. $\frac{1}{t_{1/2}} = \frac{1}{3} + \frac{1}{12}$ or $t_{1/2} = 2.4$ min

84. The number of incorrect statement/s about the black body from the following is _____
 (A) Emit or absorb energy in the form of electromagnetic radiation.
 (B) Frequency distribution of the emitted radiation depends on temperature.
 (C) At a given temperature, intensity vs frequency curve passes through a maximum value.
 (D) The maximum of the intensity vs frequency curve is at a higher frequency at higher temperature compared to that at lower temperature.

Ans. NTA : 0

Reso : 0

Sol. All Statements are correct

85. The sum of lone pairs present on the central atom of the interhalogen IF_5 and IF_7 is _____

Ans. NTA : (1)

Reso : (1)

Sol. Molecule

Structure

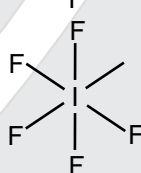
Number of Lone pair of electron on central atom

IF_5

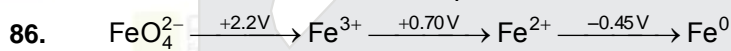


(1)

IF_7



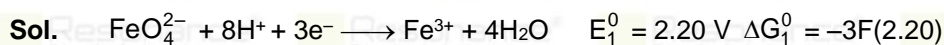
(0)



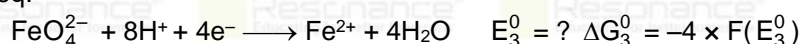
$E_{FeO_4^{2-}/Fe^{2+}}^0$ is $x \times 10^{-3}$ V. The value of x is _____

Ans. NTA : (725)

Reso : (725)



Target eq.



Target eq. = eq₁ + eq₂

$-4F E_3^0 = -3F \times 2.20 - 1 \times F(0.7)$

$E_3^0 = \left[\frac{3 \times 2.20 + 0.7}{4} \right] = 1.825 = 1825 \times 10^{-3}$ V

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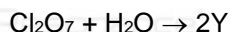
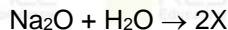
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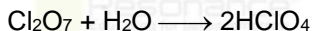
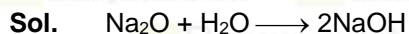
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87. In the following reactions, the total number of oxygen atoms in X and Y is _____



Ans. NTA : (5)

Reso : (5)



NaOH = 1 Oxygen – atom

HClO₄ = 4 Oxygen – atom

Total Oxygen atoms in X and Y = 1 + 4 = 5

88. At constant temperature, a gas is at a pressure of 940.3 mm Hg. The pressure at which its volume decreases by 40% is _____ mm Hg. (Nearest integer)

Ans. NTA : (1567)

Reso : (1567)

Sol. For ideal gas at constant temperature

$$P_1V_1 = P_2V_2$$

$$940.3 \times V = P_2 [0.6V]$$

$$P_2 = \left(\frac{940.3}{0.6} \right)$$

$$= 1567.16 \text{ mm Hg}$$

89. If the degree of dissociation of aqueous solution of weak monobasic acid is determined to be 0.3, then the observed freezing point will be _____ % higher than the expected/theoretical freezing point. (Nearest integer)

Ans. NTA : (65)

Reso : (65)

Sol. For calculated value ΔT_f

$$(\Delta T_f) = K_f \times m$$

For observed value of ΔT_f

$$\Delta T_f = i[K_f \times m]$$

$$i = 1 + (n - 1)\alpha$$

$$i = 1 + (2 - 1) 0.3$$

$$i = 1.3$$

$$(\Delta T_f)_{\text{observed}} = 1.3[K_f \times m]$$

$$\% \text{ greater observed } \Delta T_f = \frac{(\Delta T_f)_{\text{observed}} - (\Delta T_f)_{\text{Calculated}}}{(\Delta T_f)_{\text{Calculated}}} \times 100 = 0.3 \times 100 = 30 \%$$

90. The number of correct statement/s involving equilibria in physical processes from the following is _____

(A) Equilibrium is possible only in a closed system at a given temperature.

(B) Both the opposing processes occur at the same rate.

(C) When equilibrium is attained at a given temperature, the value of all its parameters became equal.

(D) For dissolution of solids in liquids, the solubility is constant at a given temperature.

Ans. NTA : 3

Reso : 3

Sol. A, B and D

(C) \longrightarrow values of parameters becomes constant.

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