

## தேசிய வெளிக்கள நிலையம் தொண்டைமானாறு

ூரண்டாம் தவணைப் பரீட்சை - 2024

## National Field Work Centre, Thondaimanaru.

2<sup>nd</sup> Term Examination - 2024

Gr: 12 (2025)

Chemistry

**Answer** 

1	2	6	3	"	5	12	5	21	1
2	,5	7	4	12	4	17	5	22	1
3	,	8		13	2	18	3	23	3
4	2	9	2	14	 ਡ	19	5	24	O'
5	Э	10	2.	15	3	20	4	25	1
ļ	<del> </del>	-		<u>'-</u>	<u> </u>			+	

Tomil meadium.

\* mea (2) 4) 10; 5) EZ

MCQ(6) 28001 P,B.C.D DED END

MCQ(16) a Dog

MCQ(16) a Dog

Opprovinger Goog and Sono (2) (A) A Gig Gindon ;

Toog Brusso 3 Dos Gindon ;

Element of B has shree.

(A) in X... Y... Z...

(4) (8)  $50_2$   $50_3$ , -296.8 -395.7 (4) (C) (iii) (2) (4) (9),

CHEMISTRY MARKING SCHEME

2nd Perm Examination 2024 GY 12.

I (A) (i) 
$$K, F$$
 (ii)  $C$  (iii)  $CI$  (iv)  $S$  (v)  $K$  (vi)  $N$ 
 $E \times 05 = 20$ 

(8)  $E \times 05 = 20$ 
 $E \times 05 = 20$ 

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$$(iv) \left[ \frac{A_1 (H_{20})_6}{A_1 (H_{20})_6} \right]^{\frac{3+}{2}} \times j \quad \text{If } A_1 (GH)_3$$

$$Z = NGA_{10}, \qquad \frac{3\times 4 = 1Z}{3\times 4 = 1Z},$$

$$(v) \left[ \frac{A_1 (H_{20})_5 (GH)}{5} \right]^{\frac{3+}{2}} \left[ \frac{A_1 (H_{20})_4 (GH)_2}{3\times 9} \right]$$

$$Q.$$

$$H_{30}^{+}$$

$$R$$

(v)  $H_2O + HCI \longrightarrow H_3O^+ + CI$ 80se.  $H_2O + NH_3 \longrightarrow NH_4OH$   $H_2O + NH_3 \longrightarrow IH_4OH$ acid  $IH_3O = IH_3O =$ 

distilled worter was added cepts the -marked Level of the volumetric flask. (iv) H2504 ray, + NO2003 ray, -> NO250400) + 150+ Mysoy = 5moldm3 x 100 x103 dm3.  $m_1 n_2 co_3 = 0.5 mol - [02]$   $n_1 n_2 co_3 = 0.5 mol \times 1069 mov = 53911 - [03]$ (c) (v) Potassium dihydrogen phosphate iii) hydrogen Perchiorale viii) dinistrogen krioride in mercurous Chioride. 4×05 = 20 T- absolute temperature | Kelvin Lemperature

6

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ciii DG = DH = JDS - - (2)

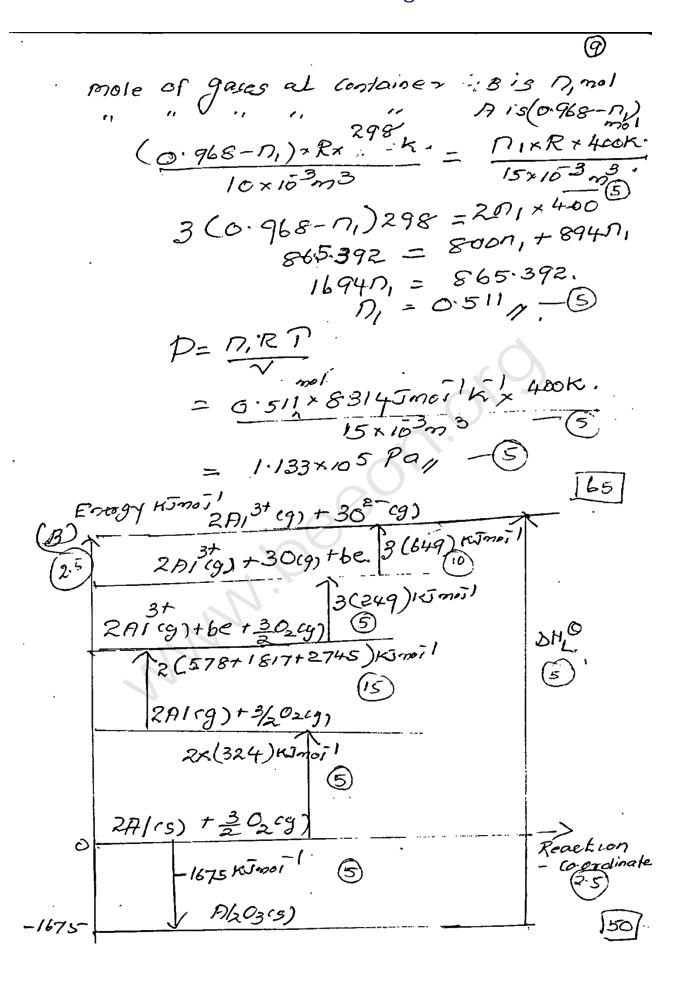
= - 197.8 KJmoj 1 - 298K (-01879K)

= (- 197.8 + 55.726) KJ maj | KJmojk)

= - 142.074 KJmoj 1 - S
```

in spontaneous reaction, -(10)

**(E)** 



$$-1675 \text{KJamj} + DH_{L} = (648 + 10,280 + 747 \text{m} + 1947 \text{KJamj} + 1947 \text{$$

My Back + soy ray -> Basey + 201  $\Pi_{Basey} = \frac{699 \times 10^3 \text{ g.}}{2339 \text{ moi}}$   $= 3 \times 10^{-3} \text{ moi}_{1/5}$ N'soy = N503- = 3x10 3mol5 Simole of mooy reacted with signal of the si = 1.2 × 10 3 moly (5) :. Hole of mnow reacted with Goy = (4x10 - 1.2+103) mol  $\begin{array}{rcl}
 & = & 2.8 \times 10^{-3} \, \text{mol} \, 1.5 \\
 & = & 5 \times 2.8 \times 10^{-3} \, \text{mol} \, 1 \\
 & = & 7 \times 10^{-3} \, \text{mol} \, 1.5
\end{array}$ 0.35molding (b) is colen heated. No residue coas obtained.

So compound (MN4), coz 15

Identifyed. (5)

Black or dark brown solid residue was obtained. Ago, was identified.

so No change or other one was. 1192003.

(ii) one of the given solution was taken randomly. Then it was transferred to Other two soketions. Both solution give white Preicipitale . . . The taken Fisher the two separate Preitili foodpitale solution is PLCNOD2. with solution were heated. one of the Precipitale was dissolved and give -Clear solution. 50 Hel 15 idenified Other one 15 Ha. 904 [5x3=15]

(Other switable answers give marks)

(iii) heat couth Nachcag) & not librate. gas | Pungent smell gas. So NaNogis I Foo the remain Al powder was added to other two solutions then heated. once again Pungent smell gas was Limated NHANOS is identified, other one is NH4 CI [5x3. = 15]

	•
G	Não dinitrogen monoride +1
	N20 amilianos propunide +2
	nitrogen monunide +2
	Linitrogen trioxide 3.
	N203.
	N203.  Nitrogen diereide 14  NIO 7 Nitrogen tetronide +4  N204 ] dini Exegen tetronide +4
	Naoy dinitrogen
	Na 0 dinitrogen pentaride +5
	15×2 = 30
	750