**­i±a ¢h‘¡e**

**f§ZÑj¡e - 90**

SET – I TIME – 3 hrs. 15 min.

L ¢hi¡N

1 hý ¢hLÒf¢i¢šL fËnÀz fË¢a¢V fË­nÀl e£­Q Ešl ¢qp¡­h Q¡l¢V ¢hLÒf ­cJu¡ B­Rz ­k¢V ¢WL ­p¢V ­m­M¡ : 1 x 15 = 15

1.1 p¡d¡lZ a¥m¡k­¿»l p¡q¡­kÉ L£ f¢lj¡f Ll¡ k¡u ?

L) hÙ¹¥l il M) hÙ¹¥l JSe N) hÙ¹¥l °cOÑÉ O) hÙ¹¥l Buae

1.2 Qm¿¹ N¡¢s qW¡v ­b­L ­N­m B­l¡q£l¡ p¡j­el ¢c­L ­q­m f­s, Hl L¡lZ q­m¡ -

L) ¢ÙÛ¢aS¡XÉ M) N¢aS¡XÉ N) O§ZÑe N¢a O) B­f¢rL N¢a

1.3 f¡l­cl Øg¥Ve¡ˆ

L) 357'C M) 350'C N) 457'C O) 257'C

1.4 B­u¡¢Xe h¡­×fl lP -

L) m¡m M) qm¤c N) ­h…¢e O) ph¤S

1.5 ­fË¡Ve LZ¡ B¢hú«a L­le -

L) Vjpe M) l¡c¡l­g¡XÑ N) pÉ¡XECL O) AÉ¡­i¡N¡­XÊ¡

1.6 ¢p.¢S.Hp fÜ¢a­a L¡­kÑl HLL -

L) S¥m M) BNÑ N) g¥V-f¡Eä¡m O) Ju¡V

1.7 HL¢V fËbj ­nËZ£l ¢mi¡l qm -

L) ­e±L¡l cy¡s M) Ly¡¢Q N) j¡e¤­ol q¡a O) ­hmQ¡

1.8 Au ¢Qq² à¡l¡ ­k ­j±m¢V fËL¡n Ll¡ qu ­p¢V qm -

L) ­p¡¢Xu¡j M) fV¡¢nu¡j N) a¡j¡ O) ­p¡e¡

1.9 AÉ¡­j¡¢eu¡l BZ¢hL …l¦aÆ -

L) 44 M) 18 N) 17 O) 28

fªù¡ - 2

1.10 Zn+H2SO4 =ZnSO4+H2 -HC ¢h¢œ²u¡¢V­L hm¡ qu -

L) fË¢aÙÛ¡f ¢h¢œ²u¡ M) pw­k¡Se ¢h¢œ²u¡

N) ¢h­u¡Se ¢h¢œ²u¡ O) ¢h¢eju ¢h¢œ²u¡

1.11 FdÆÑ¡L¡­n ¢hcÉ¥vrl­Zl pju N2 J O2-Hl ¢h¢œ²u¡u Evfæ hZÑq£e NÉ¡p¢V qm- L) NO2 M) NO N) N2O3 O) N2O

o

1.12 Bfae ­L¡Z 45 q­m fË¢agme ­L¡Z q­h -

o o o o

L) 45 M) 55 N) 45 O) 35

o

1.13 flj­ú­m 27C Hl f¡W q­h -

o o o o

L) 100A M) 173A N) 300A O) 330A

1.14 œu£p§œ B¢h×L¡l L­le-

L) ­X¡­h¢eu¡l M) ¢eEmÉ¡ä N) ­m¡b¡l ­ju¡l O) ­j­ä¢mi

1.15 HL¢V AÉ¡­l¡­j¢VL ­k±N qm -

L) ¢j­be M) C¢m¢me N) ¢hE­Ve O) eÉ¡fb¡¢me

**M ¢hi¡N**

2. ¢ejÀ¢m¢Ma fËnÀ…¢ml Ešl c¡J (¢hLÒf fËnÀ…¢m mrÉe£u) : 1 x 21 = 21

2.1 i¡¢eÑu¡l LÉ¡¢mf¡pÑ e¡ û¥ ­NS ­L¡e k­¿»l p¡q¡­kÉ A¢dLal p§rÈ f¢lj¡f Ll¡ pñh qu ? 1

Abh¡

­hN ­úm¡l l¡¢n e¡ ­iƒl l¡¢n ?

2.2 l¡p¡u¢eL n¢š² ­b­L a¢svn¢š²­a l©f¡¿¹­ll HL¢V Ec¡qlZ c¡Jz 1

2.3 e£­Ql ¢hhª¢a¢V paÉ e¡ ¢jbÉ¡ ­m­M¡ :

¢œ²u¡ J fË¢a¢œ²u¡ c¤¢V ¢iæ hÙ¹¥l Jfl ¢œ²u¡ L­lz 1

2.4 flj¡Z¤l j­dÉ ­fË¡Ve J ¢eEVÊe ­L¡b¡u b¡­L ? 1

fªù¡ - 3

2.5 e£­Ql ¢hhª¢a¢V paÉ e¡ ¢jbÉ¡ ­m­M¡ :

k¡œ£h¡q£ BL¡nk¡e­L Hu¡l œ²¡gV hm¡ quz 1

Abh¡

X¡Ce J ¢eEV­el j­dÉ pÇfLÑ¢V ­m­M¡z

2.6 fËj¡Z Q¡f J Eo·a¡u 44 NË¡j L¡hÑe a¡C Aú¡CX Hl Buae La ? 1

2.7 ö×L hlg L£ ? 1

2.8 HL¢V ­N¡V¡­e¡ ¢ØfËw-H ­k n¢š² p¢’a b¡­L ­pV¡ L£ dl­Zl n¢š² ? 1

2.9 fkÑ¡u p¡l¢Zl Qa¥bÑ fkÑ¡­u ­j±­ml pwMÉ¡ La ? 1

2.10 nËhZ­k¡NÉ n­ël LÇf¡ˆ La ? 1

Abh¡

­g¢lL ­LÓ¡l¡CX âh­Z NH4O4 ­k¡N Ll­m L£ l­Pl Ad:­rf f­s? 1

2.11 h¡jÙ¹­ñl p­‰ X¡eÙ¹­ñl p¡j‘pÉ ¢hd¡e L­l¡z 1 x 4

h¡jÙ¹ñ X¡eÙ¹ñ

A) H­l¡­fÔe ¢e¢cÑø Ù¹­l ¢e¢cÑø pj­u i) â¥aN¡j£ BL¡nk¡e

¢h¢iæ ¢hj¡eh¾c­l

B) Bhq¡Ju¡ cç­ll fl£r¡ ¢el£r¡l SeÉ ii) EfNËq Ev­rf­el E­Ÿ­nÉ

C) l­LV hÉhq¡l qu iii) B¿¹SÑ¡¢aL ¢euj ­j­e JW¡e¡j¡ L­l

D) ­SX ­fÔe z BL«¢al iv) ­hm¤­el AaÉ¡d¤¢eL hÉhq¡l B­R

2.12 ­L¡­e¡ flj¡Z¤ ­b­L Bmg¡ LZ¡ ¢eNÑa q­m f¡lj¡Z¢hL pwMÉ¡ J ilpwMÉ¡l L£ f¢lhaÑe qu ? 1

fªù¡ - 4

2.13 ­L¡eÚ S¡a£u °Sh ­k±­Nl j­dÉ q¡CXÊ¢„m j§mL -OH b¡­L ? 1

Abh¡

B­mu¡ pª¢ø­a ­L¡eÚ NÉ¡­pl i¨¢jL¡ B­R ? 1

2.14 ­gÓ¢jw-Hl h¡jqÙ¹ ¢eu­j jdÉj¡ L£ ¢e­cÑn L­l ? 1

2.15 ­L¡e p¤¤­ll LÇf¡ˆ 250 q­m Hl flhaÑ£ Aø­Ll LÇf¡ˆ La q­h ? 1

2.16 ­L¡­e¡ hÙ¹¥­L Ljf­r La ­h­N fª¢bh£fªù ­b­L ­R¡s¡ q­m hÙ¹¥¢V fª¢bh£l h¡C­l Q­m k¡­h ? 1

Abh¡

fª¢bh£l Q¡l¢c­L HLh¡l O¤l­a Q­¾cÊl La pju m¡­N ?

2.17 B-l¢nÈl flj¡Z¤l ­L¡eÚ Awn ­b­L ¢eNÑa qu ?

Abh¡

L, B Hhw 9 l¢nÈl j­dÉ L¡l ­ice rja¡ ph­Q­u ­h¢n ? 1

2.18 AÉ¡m¤¢j¢eu¡­jl HL¢V BL¢l­Ll e¡j J pw­La ­m­M¡z 1

**N ¢hi¡N**

3. ¢ejÀ¢m¢Ma fËnÀ…¢ml Ešl c¡J (¢hLÒf fËnÀ…¢m mrÉe£u) : 2 x 9 = 18

3.1 il, ­hN, hm, pju - H…¢ml j­dÉ ­L¡eÚ…¢m ­iƒl l¡¢n J ­L¡eÚ…¢m ­úm¡l l¡¢n z 1/2 x 4 = 2

3.2 HL¢V hÙ¹¥l ­hN 5 ¢j¢e­V 10¢j/­p. ­b­L 25¢j/­p. q­m Hl ülZ ¢eZÑu L­l¡z 2

Abh¡

¢ÙÛl AhÙÛ¡ ­b­L 25¢j/­p pjaÆl­Z 24 ­p­L™ Qm¡l fl ­L¡­e¡ hÙ¹¥l ­hN La q­h ? 2

3.3 ¢eEV­el ¢àa£u N¢ap§œ¢V ­m­M¡

Abh¡

S.I fÜ¢a­a h­ml flj HL­Ll pw‘¡ ­m­M¡z 2

fªù¡ - 5

3.4 HL¢V ­LÓ¡¢le flj¡Z¤l f¡lj¡Z¢hL pwMÉ¡ 17 Hhw ilpwMÉ¡ 35, HC flj¡Z¤l C­mLVÊe J ¢eEVÊe pwMÉ¡ La q­h? 2

3.5 ¢ejÀ¢m¢Ma ­k±Nc¤¢Vl pw­La ­m­M¡ :-

L) fV¡¢nu¡j f¡ljÉ¡‰¡­eV M) AÉ¡m¤¢j¢eu¡j A„¡CX 1+1=2

Abh¡

e£­Ql ¢h¢œ²u¡…¢m ¢L S¡a£u ¢h¢œ²u¡ ­m­M¡-

L) H2 + CL2 = 2HCL

M) Na2CL3+Pn(NO3)2=PbCO3+2NaNO3 1+1=2

3.6 fl£r¡N¡­l NH3 NÉ¡p fËÙ¹¥¢al e£¢a J pj£LlZ ­m­M¡z 1+1=2

3.7 fl£r¡N¡­l CO2 fËÙ¹¥¢a­a H2SO4 hÉhq¡l Ll¡ qu e¡ ­Le? 2

3.8 LÉ¡m¢l¢j¢al j§me£¢a E­õM Llz 2

Abh¡

hlgNm­el m£ea¡f 40 LÉ¡m¢l/NË¡j hm­a L£ ­h¡T? 2

3.9 ¢ej¢ua fË¢agm­el p§œc¤¢V ­m­M¡z 2

Abh¡

L£ L£ n­aÑ AiÉ¿¹l£Z f§ZÑ fË¢agme O­V ? 2

O ¢hi¡N

4. ¢ejÀ¢m¢Ma fËnÀ…¢ml Ešl c¡J (¢hLÒf fËnÀ…¢m mrÉe£u) : 3 x 12 = 36

4.1 h­u­ml p§œ¢V ­m­M¡z ­L¡eÚ Eo·a¡u BcnÑ NÉ¡­pl Buae öeÉ qu ? 2+1

4.2 HL¢V ­hm¤­e 95 cm Hg Q¡­f 0.4 ¢mV¡l h¡a¡p il¡ B­Rz k¢c Eo·a¡ pj¡e ­l­M Q¡f L¢j­u 76 cm Hg ­a Be¡ qu, a­h JC h¡a¡­pl Buae La q­h? 3

Abh¡

9 NË¡j Sm Hhw 34 NË¡j AÉ¡­j¡¢eu¡­a AZ¤l pwMÉ¡ ¢eZÑu Llz 3

4.3 n¢ja mhZ L¡­L h­m? ¢gVL¡¢l ­L¡eÚ ­nËZ£l mhZ? 2+1=3

Abh¡

fªù¡ - 6

HL¢V ­h¡a­m Na0H âhZ, B­lL¢V ­h¡a­m H2SO4 Hhw Afl HL¢V­a Nacl âhZ B­Rz ­Lhmj¡œ e£m ¢mVj¡p L¡N­Sl p¡q¡­kÉ ­L¡eÚ¢V­a L£ B­R a¡ L£i¡­h ne¡š² Ll­h ? 1+1+1=3

4.4 Bd¤¢eL fkÑ¡up§œ¢V ­m­M¡z fkÑ¡u p¡l¢Zl a«a£u fkÑ¡­ul fËbj J ­no ­j±m…¢ml e¡j ­m­M¡z 2+1=3

4.5 ¢hcÉ¥­al TmL ­cM¡l 4 ­p­Lä fl HL hÉ¡¢š² ­j­Ol NSÑe öe­a ­fmz n­ël N¢a­hN 332¢j/­p. q­m hÉ¢š²¢Vl L¡R ­b­L ­j­Ol c§laÆ La? rZÙÛ¡u£ n­ël fË¢adÆ¢e ­n¡e¡l SeÉ ­nË¡a¡ J fË¢agm­Ll c§laÆ ¢eZÑu Llz (h¡u¤­a n­ël ­hN 332¢j/­p.) 1+2

Abh¡

200¢j/­p. ­h­N Ae¤i¥¢jLi¡­h Es­a Es­a HLSe ¢hj¡eQ¡mL h¾c¥­Ll …¢m Ry¥s­m¡z i¨fª­ù fË¢ag¢ma q­u në 2 ­p­Lä fl a¡l L¡­R ­f±yR­m¡z h¡u¤­a HL AhÙÛ¡u n­ël ­hN 320¢j/­p q­m i¨fªù ­b­L ¢hj¡­el EµQa¡ La ¢Rm? 3

4.6 a¢svfËh¡­ql a¡f£u gm pwœ²¡¿¹ S¥­ml p§œ¢V ¢hhªa L­l¡z 3

4.7 ¢hÔ¢Qw f¡EX¡­ll l¡p¡u¢eL e¡j ¢L? ¢hÔ¢Qw f¡EX¡l L£i¡­h fËÙ¹¥a Ll¡ qu?

1+2=3

Abh¡

¢f.¢i.¢p.-Hl pÇf¨ZÑ e¡j ¢L? ¢f.¢i.¢p.-Hl c¤¢V hÉhq¡l ­m­M¡z 1+2=3

4.8 °Sh ­k±N Hhw A°Sh ­k±­Nl ¢ae¢V f¡bÑLÉ ­m­M¡z 3

4.9 p¡d¡lZ B­m¡ Hhw H„ l¢nÈl c¤¢V p¡cªnÉ ­m­M¡z ¢Q¢Lvp¡ ¢h‘¡­e H„l¢nÈl hÉhq¡l ­m­M¡z

Abh¡

¢fam J ­hË¡‘ EiuC Ef¢ÙÛa Hje HL¢V d¡a¥l e¡j ­m­M¡z Lf¡l p¡m­gV âh­Z ­m¡q¡l c™ fË­hn Ll¡­m L£ O­V pj£LlZpq ­m­M¡ 1+2=3

4.10 Q¾cÊNËqZ L£i¡­h qu a¡ ¢Qœpq hZÑe¡ Llz 3

4.11 j¤¢š²­hN L¡­L h­m? i¡l­al fËbj L«¢œj EfNË­ql e¡j L£? 2+1=3

4.12 nËhZ p£j¡ L¡­L h­m? ­k¡N¡­k¡N j¡dÉj­L Lui¡­h i¡N Ll¡ k¡u J L£ L£? 1+2=3

fªù¡ - 7

Abh¡

al‰ °cOÑÉ L¡­L h­m? m¡EX¢ØfL¡­ll në c§l ­b­L ­n¡e¡ k¡u ¢L¿¹¥ ­V¢m­g¡­el në öe­a q­m L¡e NË¡qL k­¿»l L¡­R l¡M­a qu ­Le ? 1+2=3

ANSWER

1.1 (L)

1.2 (M)

1.3 (L)

1.4 (N)

1.5 (M)

1.6 (M)

1.7 (M)

1.8 (O)

1.9 (N)

1.10 (L)

1.11 (M)

1.12 (N)

1.13 (N)

1.14 (L)

1.15 (O)

2.1 û¥ ­NS Abh¡ ­hN

2.2 V­QÑl hÉ¡V¡¢l

2.3 paÉ

2.4 ¢eE¢LÓu¡­p

5

2.5 paÉ Abh¡ ¢eEVe = 10 X¡Ce

2.6 2 x 22.4 ¢m = 44.8 ¢m.

2.7 L¢We CO2

2.8 ¢ÙÛ¢an¢š²

2.9 18

2.10 20-20000 HZ Abh¡ h¡c¡¢j

2.11 A-iii)) B-iv) C-ii) D-i)

2.12 ilpwMÉ¡ 4 HLL L­j Hhw f¡lj¡Z¢hL pwMÉ¡ 2 HLL L­jz

2.13 AÉ¡m­L¡qm Abh¡ ¢j­be

2.14 a¢svfËh¡q

2.15 2 x 250 = 500

2.16 11.2 ¢L¢j/­p. Abh¡ 271/2 ¢ce

2.17 ¢eE¢LÓu¡p Abh¡ 9 l¢nÈl

2.18 hú¡CV (Al2O3, 2H2O)