Round-3 exam

Chemistry chapter 5

MCQ

1. **Aw·‡R‡bi-** [Xv. †ev. 23]

i. ‡hvR¨Zv B‡jKUªb 6

ii. AYy RviK c`v\_©

iii.AYy‡Z e›ab ‡Rvi B‡jKUªb 2wU

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **‡Kvb †gŠjwU GKvwaK ‡hvRbx cÖ`k©b K‡i?** [iv. ‡ev. 17 Ky. †ev. 15 ]

K O L Na

M P N F

1. **SF4 ‡hŠ‡M S Gi myß †hvRbx KZ?** [iv. †ev. 23]

K 0 L 2

M 4 N 6

1. **CO2 ‡hŠ‡M Kve©‡bi myß ‡hvRbx KZ?** [Xv. †ev. 20]

K 0 L 2

M 4 N 6

1. **K¨vjwmqvg avZzi-** [wm. †ev. 24]

i. B‡jKUªb web¨vm 1s2 2s2 2p6 3s2 3p6 3d2

ii. ‡hvR¨Zv B‡jKUªb 2

iii. ‡hvRbx 2

**wb‡Pi †KvbwU mwVK?**

K i L i I iii

M ii I iii N i, ii I iii

1. **‡KvbwU gwiPvi ms‡KZ?** [Xv. †ev.Ô22, 20, 16]

K FeO.3H2O L Fe2O3.H2O

M Fe2O3.2H2O N Fe2O3.nH2O

1. **A¨vjywgwbqvg Kve©‡b‡Ui ms‡KZ †KvbwU?** [iv. †ev. 21]

K AlCO3 L Al2CO3

M Al2(CO3)3 N Al(CO3)3

1. **eÜb MV‡b `yB Gi wbqg gv‡b-** [g. †ev. 23]

i. NO

ii. NO2

iii. CH4

**wb‡Pi †KvbwU mwVK?**

K iii L i I iii

M ii I iii N i, ii I iii

1. **‡mvwWqvg †K¬vivB‡Wi K¨vUvq‡bi B‡jKUªb web¨vm wb‡¤œi †KvbwU‡K mg©\_b K‡i?** [Kz. †ev. 19]

K Al3+ L Ca2+

M Li N K

1. **‡hŠM MV‡bi mgq †Kvb †gŠjØq GKB wbw®Œq †gŠ‡ji B‡jKUªb web¨vm jvf K‡i?** [wm. ‡ev. 23]

K K, F L Ca, S

M Mg, Cl N Al, S

**DÏxc‡Ki Av‡jv‡K 11-12 cÖ‡kœi DËi `vI**

19Y, 9Z [Y, Z cªZxKx A‡\_© e¨en„Z][w`. †ev. 20]

1. **Z Gi GKwU AYyi fi KZ?**

K 1.495 × 1023g L 2.990 × 1023g

M 3.156 × 1023g N 6.312 × 1023g

1. **Y I Z -**

i. †gŠjØq AvqwbK eÜb MVb K‡i

ii. Gi †hŠM KwVb Ae¯’vq we`y¨Z cwienb K‡i

iii. eÜb MV‡b AóK wbqg †g‡b P‡j

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **PCl5 ‡hŠ‡Mi †K›`ªxq cigvbyi me©‡kl kw³¯Í‡i eÜb †Rvo B‡jKUªb msL¨v KZwU?** [P. †ev.Ô24]

K 5 L 8

M 10 N 15

1. **‡Kvb †hŠMwU‡Z eÜb †Rvo B‡jKUªb msL¨v ‡ewk?** [h. †ev. 23]

K NH3 L C2H2

M H2O N CO2

1. **SO3 AYyi †ÿ‡Î-** [w`. †ev. 24]

i. 6 wU eÜb †Rvo B‡jKUªb Av‡Q

ii. 6 wU gy³ †Rvo B‡jKUªb Av‡Q

iii. †hŠMwU GwmW e„wó m„wó K‡i

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

**wb‡Pi wewµqvwUi Av‡jv‡K 16-17 bs cÖ‡kœi DËi `vI :**

H2 + S → D[g. †ev. 22]

1. **D ‡hŠMwU-**

i. mg‡hvRx

ii. AvqwbK

iii. A‰Re

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **D Gi †K›`ªxq cigvYyi me©†kl kw³¯Í‡i m‡ev©”P B‡jKUªb aviY¶gZv KZ?**

K 2 L 8

M 18 N 32

1. **wb‡Pi †Kvb †hŠMwU cvwb‡Z `ªexf‚Z nq?** [ iv. †ev. 23]

K Al(OH)3 L Fe(OH)2

M LiCl N BaSO4

1. **cvwb‡Z A`ªeYxq ‡hŠM †KvbwU?** [iv. †ev. 20; h. †ev. 21]

K NaCl L MgCl2

M AlCl3 N CCl4

1. **‡Kvb ‰Re †hŠM †cvjvi ai‡bi?** [g. †ev. 20]

K †ebwRb L B\_vi

M ‡c‡Uªvj N wPwb

1. **‡KvbwUi Rjxq `ªeY we`y¨r Acwievnx?** [w`. †ev. 21]

K C12H22O11 L H2SO4

M CuSO4 N ZnCl2

1. **wb‡Pi †KvbwU we`y¨r cwievnx?** [Kz. †ev. 22]

K Na2SO4(s) L NaCl(s)

M MgCl2(l) N C6H12O6(l)

1. **NH4Cl-** [w`. †ev. 20]

i. Zij Ae¯’vq \_vK‡Z cv‡i

ii. G‡Z GKvwaK eÜb we`¨gvb

iii. Gi Rjxq `ªeY A¤øxq

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **Cl2 G-** [ e. †ev. 20]

i. mg‡hvRx eÜb we`¨gvb

ii. Dfq cigvYy 2 wU K‡i B‡jKUªb †kqvi K‡i

iii. Dfq cigvYy AvM©‡bi B‡jKUªb web¨vm jvf K‡i

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **wb‡Pi †KvbwU‡Z mÂviYkxj B‡jKUªb \_v‡K?** [iv. †ev. 23]

K mvjdvi L dmdivm

M Av‡qvwWb N MÖvdvBU

CQ

|  |  |  |
| --- | --- | --- |
| †gŠj | fi msL¨v | wbDUªb msL¨v |
| X | 12 | 6 |
| Y | 35 | 18 |
| Z | 23 | 12 |

[X, Y, Z cÖPwjZ †gŠ‡ji cÖZxK bq|]

[wm‡jU †evW© 2024]

(K) †gvjvwiwU Kv‡K e‡j?

(L) ˆRe I A‰Re †hŠ‡Mi g‡a¨ cv\_©K¨ †jL|

(M) DÏxc‡Ki ÒZÓ n‡Z ÒYÓ Gi AvqwYKiY kw³ †ewk †Kb? e¨vL¨v Ki|

(N) DÏxc‡Ki †gŠj Øviv MwVZ XY4 Ges ZY †hŠ‡Mi GKwU cvwb‡Z `ªeYxq n‡jI AciwUi A`ªeYxq Ñ we‡kølY Ki|

1. wb‡Pi DÏxc‡Ki Av‡jv‡K cÖkœ¸‡jvi DËi `vI :

n =1

1p

11p

n = 3

n = 2

9p

C

B

A

[GLv‡b, A, B, C cÖZxKx A‡\_© e¨eüZ]

[gqgbwmsn †evW© 2024]

(K) MvVwbK ms‡KZ Kv‡K e‡j?

(L) SO3 †hŠ‡M mvjdv‡ii myß †hvRbx e¨vL¨v Ki|

(M) DÏxc‡Ki A Ges C †gŠ‡ji g‡a¨ †Kvb ai‡bi eÜb N‡U? WU I µm wPý Øviv e¨vL¨v Ki|

(N) DÏxc‡Ki AC Ges BC Dfq †hŠMB GKB †KŠk‡j cvwb‡Z `ªexf‚Z n‡e wK? hyw³mn we‡kølY Ki|

1. X = ns2np2 [n = 2]

Y = ch©vq 4 Ges MÖæc – 11

Z = ns2np5 [n = 3]

[GLv‡b X, Y Ges Z †gŠ‡ji cÖZxKx A‡\_© e¨eüZ]

[h‡kvi †evW© 2024]

(K) cvZb Kv‡K e‡j?

(L) B‡jKUªb web¨vmB ch©vq mviwYi g~j wfwË Ñ e¨vL¨v Ki|

(M) Y- Gi B‡jKUªb web¨vm ¯^vfvweK wb‡q‡gi e¨wZµg Ñ e¨vL¨v Ki|

(N) Y Ges Z Øviv MwVZ †hŠM cvwb‡Z `ªebxq n‡jI X Øviv MwVZ †hŠM cvwb‡Z A`ªeYxq Ñ we‡kølY Ki|

1. wb‡Pi DÏxc‡Ki Av‡jv‡K cÖkœ¸‡jvi DËi `vI :

|  |  |  |
| --- | --- | --- |
| †gŠj | ch©vq | †kÖwY |
| A | 4\_© | 8 |
| D | 2q | 16 |

[Kzwgjøv †evW© 2024]

(K) wbw®Œq M¨vm Kv‡K e‡j?

(L) avZz wbw®Œq GKwU weRviY cÖwµqv Ñ e¨vL¨v Ki|

(M) D2 Gi eÜb MVb e¨vL¨v Ki|

(N) A †\_‡K D Gi mv‡\_ eÜb MV‡b GKvwaK †hvRbx cÖ`k©b K‡i Ñ we‡kølY Ki|

Chemistry chapter-7

Mcq

1. **‡KvbwU Zvc Drcv`x wewµqv?** [g. ‡ev. 22]

K SO2(g) → S(s) + O2(g)

L H2O(g) → H2(g) + O2(g)

M N2(g) + O2(g) → NO(g)

N N2(g) + H2(g) → NH3(g)

1. **N2(g) + O2(g) 2NO(g) G wewµqv †\_‡K eySv hvq Ñ** [Ky. †ev. 17]

i. GwU GKwU Zvcnvix wewµqv

ii. G wewµqv ΔH Gi gvb abvZœK nq

iii. wewµqv PjvPjxb 180 wK‡jvRyj Zvc †kvwlZ nq

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **Mg + 2HNO3 Mg(NO3)2 + H2 GB wewµqvwU †Kvb ai‡bi? [**w`. †ev. 19]

K †iW· L bb-†iW·

M cªkgb N Aat‡ÿcb

1. **‡KvbwU weRviK? [P. †ev. 24]**

K Fe3+ L Cu2+

M Zn2+ N Pb2+

1. **‡KvbwU‡Z RviY-weRvib N‡U?** [g. †ev. 23]

K cÖkgb L mgvY~KiY

M cwjgviKiY N cÖwZ¯’vcb

1. **ZnO + C** → **Zn + CO. ‡KvbwU RviK c`v\_©?** [Xv. †ev. 19]

K C L Zn

M CO N ZnO

1. **CO2 + C** → **CO wewµqvwU‡Z weRviK KZwU B‡jKUªb Z¨vM K‡i?** [g. †ev.Ô23]

K 1 L 2

M 3 N 4

1. **KO2 †hŠ‡M Aw·‡R‡bi RviY msL¨v KZ?** [Xv. †ev.Ô20: iv. †ev.Ô22]

K 2 L 1

M N

1. **cUvwkqvg Kve©‡bU Kve©‡bi RviY msL¨v KZ?** [h. ‡ev. 23]

K 0 L +2

M +4 N +5

1. **wb‡Pi †KvbwU bb-†iW· wewµqv?** [g. †ev. 24]

K HCl + NaOH → NaCl + H2O

L S + O2 → SO2

M 2FeCl2 + Cl2 → 2FeCl3

N Zn + 2HCl → ZnCl2 + H2

1. **2FeCl2 + Cl2 → 2FeCl3 wewµqvwU‡Z `k©K Avqb KqwU?** [wm. ‡ev. 23]

K 6 L 4

M 3 N 2

1. **Cu2Cl2 + Cl2 →2CuCl2; GwU ‡Kvb ai‡bi wewµqv-** [Xv. †ev. 24]

K ms‡hvRb L ms‡kølY

M we‡qvRb N bb-†iW·

1. **FeCl2 + Cl2 = 2FeCl3 GB wewµqvwU‡Z -** [P. †ev. 22]

i. Fe2+

ii. Cl2 RviK

iii. Fe2+

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **Zn + H2SO4 → ZnSO4 + H2 GB wewµqvwU-** [wm. †ev. 22]

i. cÖwZ¯’vcb wewµqv

ii. †iW· wewµqv

iii. cªkgb wewµqv

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

**wb‡Pi DÏxc‡Ki Av‡jv‡K 15-16 bs cÖ‡kœi DËi `vI:**

[w`. †ev. 22]

1. **DÏxc‡Ki wewµqvwU-**

i. `nb wewµqv ii. ms‡kølY wewµqv

iii. RviY-weRviY wewµqv

**wb‡Pi †KvbwU mwVK?**

K i L ii

M i I iii N i, ii I iii

1. **56 gm Y †hŠM Drcbœ Ki‡Z wK cwigvY O2 cÖ‡qvRb?**

K 2 mole L 1 mole

M 0.5 mole N 0.125 mole

1. **SiCl4 + 4H2O → Si(OH)4 + 4HCl** [P. †ev. 23]

K cªkgb L RviY-weRviY

M cvwb‡hvRb N Av`ª© we‡kølY

1. **NH4Cl + NaOH → NaCl + H2O + X' GLv‡b 'X' M¨vmwU Kx?** [P. †ev. 24]

K HCl L Cl3

M NH3 N CO2

**❑ wb‡Pi DÏxcKwU co Ges 74 I 75 bs cÖ‡kœi DËi `vI:**

**Al(NO3)3 + aNaOH → Y + 3NaNO3**

1. **wewµqvwU‡Z a Gi gvb KZ?** [g. †ev. 23]

K 1 L 2

M 3 N 6

1. **Drcbœ Y †hŠMwUi-**

i. ¶viK ag© i‡q‡Q

ii. eY©nxb Aa‡¶c c‡o

iii. Jla wk‡í e¨envi i‡q‡Q

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **‡Kv‡bv wewµqvi MwZ‡eM e„w× cvIqvi KviY-** [Kz. †ev. 17]

i. wewµqvi ZvcgvÎv

ii. wewµq‡Ki NbgvÎv

iii. wewµq‡Ki c„ôZ‡j †ÿÎdj e„w×

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **N2(g) + 3H2(g) 2NH3(g) + 92 kj** [w`. †ev. 24]

K Drcv` n«vm cv‡e

L Drcv` e„w× cv‡e

M wewµqvwU mvg‡bi w`‡K AMÖmi n‡e

N Drcbœ Zv‡ci cwigvb e„w× cv‡e

1. **SO2(g) + O2(g) → 2SO3(g)**

**wewµqvq †KvbwU cÖfveK wn‡m‡e e¨eüZ nq?** [iv. ‡ev. 19]

K H2O2 L V2O5

M Ni N Al2O3

1. **‡Kvb wewµqvi DËi Pv‡ci cªfve †bB?** [h. †ev. 24]

K 2NO2(g) N2O2(g)

L H2(g) + I2(g) 2HI(g)

M Ca(S) + CO2 (g) CaCa3(s)

N N2(g) + 3H2(g) 2NH(g)

1. **N2(g) + O2(g) 2NO(g); ΔH = +180 kJ wewµqvwU‡Z cÖfve Av‡Q-** [P. †ev. 23]

i. NbgvÎv

ii. Zv‡ci

iii. Pv‡ci

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

CQ

1. (i) Na + O2 Na2O

(ii) HNO3 + Mg(OH)2

(iii) FeSO4 + NaOH

[XvKv †evW© 2024]

(K) wdUwKwii ms‡KZ †jL|

(L) Kc~©i EaŸ©cvwZZ c`v\_© Ñ e¨vL¨v Ki|

(M) (i) bs mgxKiYwU †iW· wewµqv Ñ mkxKiYmn e¨vL¨v Ki|

(N) (ii) I (iii) bs wewµqv GKB ai‡bi wKbv? mgxKiY m¤ú~Y©KiYmn e¨vL¨v Ki|

1. A2 + B2 2AB; H = 111kJ

[GLv‡b B – A I A – B Gi eÜb kw³ h\_vµ‡g 151kJ/mole I 349 kJ/mole]

[ivRkvnx †evW© 2024]

(K) †gŠwjK c`v\_© Kv‡K e‡j?

(L) †hvRbx I RviY msL¨vi g‡a¨ cv\_©K¨ †jL|

(M) A – A Gi eÜb kw³ wbY©q Ki|

(N) ÒKxfv‡e wewµqvwUi Drcv` e„w× Kiv hvq? Ó jvÑkv‡Zwj‡q bxwZi Av‡jv‡K we‡kølY Ki|

1. (i) FeCl3 + H2S FeCl2 + HCl + S

(ii) 2SO2(g) + O2(g) 2SO3(g); H = 198kJ/mole

[PÆMÖvg †evW© 2024]

(K) ivmvqwbK mvg¨ve¯’v Kv‡K e‡j?

(L) RviY msL¨v I †hvRbx GK bq Ñ e¨vL¨v Ki|

(M) DÏxc‡Ki (i) bs wewµqvwU‡Z RviYÑweRviY hyMcr msNwUZ nq Ñ e¨vL¨v Ki|

(N) DÏxc‡Ki (ii) bs wewµqvwU †\_‡K Drcv`b m‡e©v”P cvIqvi †ÿ‡Î jvÑkv‡Zwj‡q bxwZi ¸iæZ¡ we‡kølY Ki|

1. (i) CO2 + H2O H2CO3

(ii) N2 + O2 2NO

[XvKv †evW© 2023]

(K) `nb wewµqv Kv‡K e‡j?

(L) wbtmiY I e¨vcb `ywU wfbœ cÖwµqv †Kb?

(M) (i) b¤^I wewµqvq Drcv‡`i †ÿ‡Î ÔCÕ Gi RviY gvb wbY©q K‡iv|

(N) (i) Ges (ii) b¤^i wewµqv `yBwUi Df‡qB ms‡hvRb wewµqv n‡jI †Kej GKwU ms‡kølY wewµqv Ñ hyw³mn we‡kølY K‡iv|

Biology chapter 4

Mcq

1. **KvbwU‡K Òkw³gy`ªvÓ ejv nq?** [h. †ev. 15: w` †ev. 15]

K GTP L ATP

M N

❑ **wb‡Pi DÏxc‡Ki Av‡jv‡K 5 I 6 bs cÖ‡kœi DËi `vI:**

A+ Pi X [P. †ev. 17]

1. **wb‡Pi †KvbwU‡K D”P kw³m¤úbœ †hŠM e‡j?**

K x L Pi

M Z N †K¬v‡ivwdj

1. **DÏxc‡K DwjøwLZ cÖwµqvwU bv NU‡j -**

i. cÖvK„wZK e‡bi m„wó n‡Z ii. gvbe mf¨Zv aŸsm n‡q

iii. RxeRMr wejyß n‡Zv

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **wb‡Pi †Kvb Dw™¢‡` mv‡jvKms‡kølY nvi †ewk?** [w`. †ev. '21: mKj †evW© 18]

K eU MvQ L KuvVvj

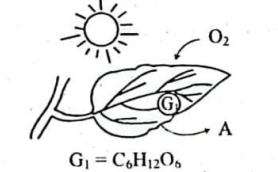
M †cqviv N KPywicvbv

1. cvwb‡Z kZKiv KZ fvM CO2 \_v‡K?[wm. †ev. 21: h. †ev. 19]

K 0.003% L 0.03%

M 0.3% N 3.0%

**wb‡Pi DÏxc‡Ki Av‡jv‡K 6-7 bs cÖ‡kœi DËi `vI:**

**** [Ky. †ev. 19;]

1. **wP‡Îi cÖwµqvwU‡Z GK AYy cvBiæwfK GwmW RvwiZ n‡q Kx Drcbœ nq?**

K GK AYy A¨vwmUvBj †Kv-G

L Pvi AYy ATP

M `yB AYy Kve©b WvBA·vBW

N `yB AYy NADH+HT+

1. **'A' wPwýZ c`v\_©wU-**

i. evqygÐ‡j 0.03%

ii. evqy‡Z †e‡o †M‡j cÖwµqvwUi nvi K‡g

iii. cvwb‡Z 0.3% \_v‡K

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **eø¨vKg¨vb KZ mv‡j mv‡jvKms‡kølY cÖwµqv‡K `ywU ch©v‡q fvM K‡ib?** [Xv †ev. 21: iv. †ev. 17]

K 1905 L 1915

M 1920 N 1925

1. **H2O we‡qvwRZ n‡q Drcbœ nq -** [Xv †ev. 21]

i. ii.

iii.

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **mv‡jvKms‡køl‡Yi Av‡jvK ch©v‡q Kx N‡U?** [h. †ev. 28]

K ‡K cvwb RvwiZ n‡q Aw·‡Rb Drcbœ nq|

L , I , RvwiZ nq|

M Kve©b WvBA·vBW weRvwiZ n‡q kK©iv Drcbœ nq|

N Aw·‡WwUf dm‡dvivB‡jkb Gi d‡j kw³ (ATP) Drcbœ nq

1. **ADP Gi mv‡\_ A‰Re dm‡dU hy³ nIqv‡K ejv nq-** [Xv †ev. 21]

K d‡UvjvBwmm L Aw·‡WwUf dm‡dvivB‡jkb

M d‡Uvdm‡dvivB‡jkb N dv‡g©‡›Ukb

1. **†KvbwU '' Dw™¢`?** [h, †ev, '21: †ev, '15; w`.‡ev, '22, 16]

K Avg MvQ L KvVvj MvQ

M wcqvR N AvL

1. **†Kvb Dw™¢‡` kK©iv Drcv`b †ewk nq? [wm.‡ev 24]**

K avb L fzÆv

M wbUvg N KPywicvbv

1. **A·v‡jv GwmwUK GwmW Kq Kve©bwewkó?** [wh. †ev. 23]

K 2 L 3

M 4 N 6

|  |  |
| --- | --- |
| M = cUvwkqvg | O = g¨vM‡bwmqvg |
| N = †K¬v‡ivdg© | P = K¨vjwmqvg |

1. **Dc‡i DwjøwLZ Dcv`vbmg~‡ni g‡a¨ †KvbwUi Dcw¯’wZ‡Z mv‡jvKms‡kølY cÖwµqv eÜ n‡q hvq?** [g. †ev. '21]

K M L N

M O N P

1. **†K¬v‡ivwd‡ji cÖavb DcKiY n‡”Q-** [e. †ev. 17]

K Ca I Fe L Na I Mg

M Fe I N N Mg I N

1. **mv‡jvKms‡køl‡Yi Rb¨ Dchy³ ZvcgvÎv †KvbwU?** [iv. †ev. 24; wm. †ev, '23: h, †ev, '22]

K 12°C-25°C L 17°C-30°C

M 22°C-35°C N 27°C - 40°C

1. **m~h©v‡jv‡Ki cÖfv‡e-** [wm. †ev. 23]

i. cÎi›`ª Db¥y³ nq ii. cvZvi Af¨šÍ‡i cÖ‡ek K‡i

iii. †K¬v‡ivwdj m„wó‡Z e¨vNvZ N‡U

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **cvZvq -Gi cwigvY Lye †ewk n‡j-** [g. †ev. 24]

i. †g‡mvwdj wUmy¨i †Kv‡li GwmW †e‡o hvq

ii. cvZvi iÜª eÜ n‡q hvq

iii. Dw™¢‡`i Lv`¨ ˆZwii nvi †e‡o hvq

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **GwU †Kv\_vq N‡U?** [h. †ev. '24]

K mvB‡UvcøvRg L gvB‡UvKwÛªqv

M ivB‡ev‡Rvg N MjwR ewW

1. **mvB‡UvcøvRg mevZ k¦m‡bi †Kvb av‡ci m‡½ m¤ú…³?** [iv. †ev. '22]

K 3q I 4\_© L 2q I 3q

M 1g I 3q N 1g I 2q

1. **cvBiæwfK Gwm‡Wi ivmvqwbK ms‡KZ †KvbwU?** [Xv,†ev,'24: g,†ev, '21: iv. †ev. :15]

K L

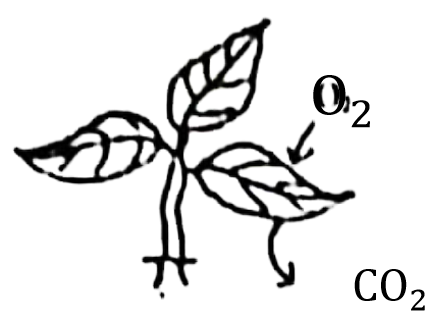
M N

1. **4 AYy †\_‡K Kq AYy Drcbœ nq?** [P. †ev. '22]

K 4 L 8

M 18 N 38

**wb‡Pi DÏxc‡Ki Av‡jv‡K 64 I 65 bs cÖ‡kœi DËi `vI:**

 [P. †ev. 24]

1. **DÏxc‡Ki cÖwµqvwUi 1g av‡c KZ AYy ATP wbU Drcv`b nq?**

K 2 L 4

M 6 N 8

1. **D³ cÖwµqvwU-**

i. ïay w`‡bi †ejvq msNwUZ nq

ii. g~‡ji AMªfv‡M †ewk nq

iii. m¤úbœ n‡Z Kv‡e©vnvB‡WªU cÖ‡qvRb nq

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

Cq

1. wb‡Pi wPÎ `ywU jÿ KiÑ

|  |  |
| --- | --- |
| wPÎ : P | wPÎ : S |

[XvKv ‡evW©-2024]

(K) ü`¯ú›`b Kv‡K e‡j? 1

(L) mwVK Rxebaviv ü`hš¿‡K my¯’ iv‡L- e¨vL¨v Ki| 2

(M) DÏxc‡Ki 'S' D”P I wb¤œ‡kªwYi mKj Rx‡e msNwUZ nq- e¨vL¨v Ki| 3

(N) DwjøwLZ 'P' cÖwµqvwU evavMÖ¯Í n‡j 'S' Gi †¶‡Î RxeRM‡Z Kx Kx cÖfve co‡e? we‡kølY Ki|

1. wb‡Pi wPÎwU jÿ KiÑ

A diagram of a cycle

AI-generated content may be incorrect.

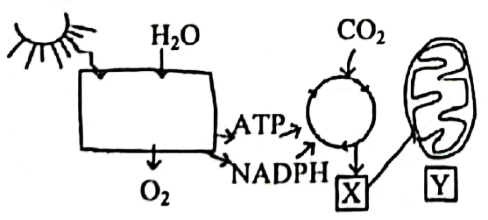
[h‡kvi ‡evW©-2024]

(K) A¨vwW‡bvwmb Kx? 1

(L) ATP GKwU ˆRekw³- †Kb? 2

(M) 'S' wbf©i 'P' cÖwµqvwUi avc eY©bv Ki| 3

(N) DwjøwLZ 'Q' cÖwµqvwUi ¸iæZ¡ we‡kølY Ki|



[Kzwgjøv ‡evW©-2024]

(K) Rxebxkw³ Kx? 1

(L) g~‡j k¦mbwµqvi nvi †ewk †Kb? 2

(M) DÏxc‡K 'X' Kxfv‡e Drcbœ nq? eY©bv Ki| 3

(N) 'Y' G msNwUZ cÖwµqvwU Rxe RM‡Zi Rb¨ ¸iæZ¡c~Y©-we‡kølY Ki| 4

1. (i)

(ii)

[wm‡jU ‡evW©-2024]

(K) d‡UvjvBwmm Kx? 1

(L) b‡U MvQ‡K †Kb C4 Dw™¢` ejv nq? e¨vL¨v Ki| 2

(M) DÏxc‡K DwjøwLZ (i) bs cÖwµqvi 1g avcwU e¨vL¨v Ki| 3

(N) DÏxc‡K DwjøwLZ (ii) bs cÖwµqvwU‡Z A Gi f‚wgKv we‡kølY Ki|

Biology chapter 13

Mcq

1. **meyR Dw™¢` wK RvZxq Lv`¨ cª¯ÍyZ K‡i?** [P. †ev. 15]

K Avwgl L kK©iv

M †mœn N wfUvwgb

1. **QvMj †Kvb †kªwYi Lv`K?** [mKj †evW© '18]

K m‡e©v”P L Z„Zxq

M wØZxq N cª\_g

1. **‡KvbwU Z„Zxq †kªwYi Lv`K?** [h. †ev. 20]

K nwiY L e¨vO

M evN N kKyb

1. **‡Kvb cªvYx¸‡jv cªK„wZi RÄvj mvd Ki‡Z ¸iæZ¡c~Y© f~wgKv iv‡L?** [iv. †ev. 19 Ky. †ev. 19]

K KvK, kvwjK, †cuPv L kKyb, KvK, nv‡qbv

M eK, gqbv, KvK N kKyb, †cuPv, gyiwM

**wb‡Pi DÏxc‡Ki Av‡jv‡K 5-6 bs cÖ‡kœi DËi `vI:**

Rvgvj mv‡ne 10g †kªwYi RxeweÁvb K¬v‡m wk¶v\_x©‡`i ev¯ÍyZš¿ m¤ú‡K© cov‡Z wM‡q cyKy‡ii ev¯ÍyZ‡š¿i wewfbœ mRxe Dcv`vb †hgb- Drcv`K, wewfbœ ¯Í‡ii Lv`K I we‡qvRK m¤ú‡K© mg¨K aviYv cª`vb K‡ib|[h. †ev. 15]

1. **Rvgvj mv‡n‡ei Av‡jvwPZ cyKy‡ii ev¯Íyms¯’v‡bi Drcv`K n‡jv-**

K dvB‡Uvcø¨vsKUb L Rycø¨vsKUb

M †QvU gvQ N RjR cZ½

1. **DÏxc‡K Av‡jvwPZ ev¯ÍyZ‡š¿i Z„Zxq ¯Í‡ii Lv`K-**

i. kvj, †evqvj, eK ii. eK, †evqvj, e¨vO

iii. fUKx, eK, †kvj

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **‡KvbwU wkKviRxex k„•Lj ?** [Xv. †ev. 11]

K g„ZRxe→ we‡qvRK → A¨vwgev

L †MvjcvZv → nwiY → evN

M †kIjv→ gvQ→ wPj

N gwiP MvQ →cvwL →nv½i

**wb‡Pi DÏxc‡Ki Av‡jv‡K 8-9 bs cÖ‡kœi DËi `vI:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ‰kevj | → | A | → | †QvUgvQ | → | eo gvQ | → | wPj |

[Xv †ev. 16]

1. **‡iLvwP‡Îi 'A' As‡k n‡e-**

i. Rycø¨vsKUb ii. gkvi k~KKxU

iii. dvB‡Uvcø¨vsKUb

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **DÏxc‡Ki wkKjwUi Rb¨ cª‡hvR¨-**

i. wkKviRxex Lv`¨ wkKj ii. Am¤ú~Y© Lv`¨ wkKj

iii. Kg kw³m¤úbœ Lv`¨ wkKj

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **†KvbwU‡Z kw³i AcPq Kg nq?** [wm. †ev. 24]

K meyR Dw™¢` → dwos → e¨vO → mvc → evRcvwL

L ‰kevj → †QvU gvQ → evRcvwL

M ˆkevj → †QvU gvQ → gvQivOv

N meyR Dw™¢` → kvgyK

1. **wb‡Pi †KvbwU‡Z kw³i cwigvY me‡P‡q †ewk?** [P. †ev. 20]

K avb MvQ L Li‡Mvk

M wkqvj N QÎvK

1. **meyR Dw™¢` → QvMj → gvbyl**

**DÏxc‡Ki cª\_g UªwdK †j‡fj P wK‡jvRyj kw³ \_vK‡j gvbyl KZwK‡jvRyj kw³ cv‡e?** [wm. †ev. 20]

K L

M N

1. **nwiY Ges evN †Kvb Rxe ˆewP†Î¨i AšÍf©y³?** [Xv †ev. 19]

K cªRvwZMZ ˆewPÎ¨ L eskMZxq ˆewPÎ¨

M ev¯ÍyZvwš¿K ˆewPÎ¨ N cwi‡ekMZ ˆewPÎ¨

**wb‡Pi DÏxc‡Ki Av‡jv‡K 14-15 bs cÖ‡kœi DËi `vI:**

K‡qKRb wK‡kvi GKwU eo AvK„wZi e¨v‡Oi cv‡q iwk †eu‡a †Ljv KiwQj| iwng wgTv e¨vOwU D×vi K‡i cv‡ki avb‡¶‡Z †Q‡o w`‡jb| e¨vOwUi IRb wQj 250 Mªvg | [w` †ev. 11]

1. **e¨vOwU D³ †¶Z †\_‡K `yB w`‡b Kx cwigvY †cvKvgvKo †L‡Z cv‡i**

K 125 Mªvg L 250 Mªvg

M 500 Mªvg N 750 Mªvg

1. **iwng wgTvi D³ f~wgKvi d‡j †¶ZwU‡Z-**

i. KxUbvk‡Ki e¨envi nªvm cv‡e

ii. av‡bi Drcv`b e„w× cv‡e

iii. AvMvQvi cwigvY K‡g hv‡e

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

1. **GKwU eo AvgMv‡Q Kygov MvQ Rwo‡q Av‡Q| GwU Kx‡mi D`vniY?**  [e. †ev, '19]

K wgDPyqvwjRg L K‡gb‡mwjRg

M cªwZ‡hvwMZv N A¨vw›Uev‡qvwmm

1. **n‡÷vwiqv †`Lv hvq †Kvb Dw™¢‡`?** [h. †ev. 17]

K cvb L QÎvK

M ˆkevj N ¯^Y©jZv

1. **†KvbwUi wg\_w¯Œqvq Df‡q DcK„Z nq?** [P. †ev. 16]

K eoB MvQ I ¯^Y©jZv L wkg I ivB‡evwRqvg

M KjwgjZv I mycvwi MvQ N †kIjv I wjPyMvQ

1. **ÒGKwU Mv‡Qi g‡a¨ GKwU cvwLi evmvÓ - G‡`i g‡a¨ †Kvb ai‡bi AvšÍtwµqv we`¨gvb?** [iv. †ev. 19]

K wgDPyqvwjRg L K‡gb‡mwjRg

M †kvlY N cªwZ‡hvwMZv

1. **DKyb Ges gvby‡li g‡a¨ †Kvb ai‡bi AvšÍtwµqv we`¨gvb?** [P. †ev. '20]

K wgDPyqvwjRg L K‡gb‡mwjRg

M ‡kvlY N A¨vw›Uev‡qvwmm

1. **FYvZ¥K AvšÍtwµqv‡K Kqfv‡M fvM Kiv hvq?** [wm. †ev. 17]

K 2 L 3

M 4 N 5

1. **GKwU eo AvgMv‡Qi wb‡P †QvU Pviv Mv‡Qi kZvwaK e„w× e¨vnZ nIqvi KviY-** [Ky. †ev. 24]

i. Av‡jvi Rb¨ msMªvg ii. evZv‡mi Rb¨ msMªvg

iii. cvwbi Rb¨ msMªvg

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

❑ **wb‡Pi DÏxc‡Ki Av‡jv‡K 23-24 bs cÖ‡kœi DËi `vI:**

A drawing of a body

AI-generated content may be incorrect. [g. †ev. '24]

1. **'X' ˆZwi‡Z mvnvh¨ K‡i †KvbwU?**

K *Pseudomonas* L *Bacillus*

M *Shigella* N *Rhizobium*

1. **wP‡Î Kx ai‡bi AvšÍtwµqv we`¨gvb?**

K Mutualism L Commensalism

M Antibiosis N Exploitation

1. **wMªb nvDR cªwZwµqvi d‡j-** [e. †ev. 24]

i. mgy‡`ªi cvwbi D”PZv †e‡o hvq

ii. ˆewk¦K DòZv e„w× cvq

iii. f~wgi jeYv³Zv †e‡o hvq

**wb‡Pi †KvbwU mwVK?**

K i I ii L i I iii

M ii I iii N i, ii I iii

CQ

1. wb‡Pi DÏxcKwU jÿ KiÑ

|  |
| --- |
| A diagram of a diagram  AI-generated content may be incorrect. |

[XvKv †evW© 2024]

(K) Rxe‰ewPÎ¨ Kv‡K e‡j? 1

(L) Rx‡ei ˆewkó¨ wbqš¿YKvix GK‡Ki e¨vL¨v `vI| 2

(M) DÏxc‡Ki Dcv`vbmg~n e¨envi K‡i RjR ev¯‘Z‡š¿i eY©bv `vI| 3

(N) DÏxc‡Ki ‡iLvwP‡Îi wkKj¸‡jv‡Z ch©vqµ‡g me‡P‡q †ewk kw³ e¨q nq Zv wPwýZ K‡i KviY we‡kølY Ki| 4

1. `„k¨Kí-1: wkg RvZxq Dw™¢‡`i g~‡j ivB‡Rvweqvg Ae¯’vb K‡i|

`„k¨Kí-2:

1. ‰kevj‡QvU gvQevRcvwL
2. NvmcZ½e¨vOmvcevRcvwL|

[ivRkvnx †evW© 2024]

(K) cÖK…wZi avOo Kv‡K e‡j? 1

(L) mywePvi cvIqvi mv‡\_ DNA Gi m¤úK© e¨vL¨v Ki| 2

(M) `„k¨Kí-1: Gi Rxe `ywU Kx ai‡bi AvšÍtwµqv cÖ`k©b K‡i? e¨vL¨v Ki| 2

(N) `„k¨Kí-2: G (i) I (ii) Gi g‡a¨ †KvbwU‡Z kw³i AcPq †ewk nq? we‡kølY Ki|

|  |
| --- |
| 1. g„ZcvwLwe‡qvRK‡Ku‡Pv |
| 1. cøvsKUb‡QvU gvQeo gvQ |
|  |
| P |

[wm‡jU †evW© 2024]

(K) jvB‡Kb Kx? 1

(L) KvK-‡K avOi ejv nq †Kb? e¨vL¨v Ki| 2

(M) DÏxc‡Ki (i) bs wkKjwU GKwU Am¤ú~Y© Lv`¨ wkKjÑe¨vL¨v Ki| 3

(N) DÏxc‡Ki (ii) bs wkK‡j P Gi msL¨v K‡g †M‡j ev¯‘Z‡š¿i Dci Kx cÖfve co‡e? we‡kølY Ki|

1. GKwU ebf~wgi ev¯‘Z‡š¿ i‡q‡Q meyR Nvm, Li‡Mvm, gq~i, Nvmdwos, e¨vO, Bu`yi, mvc, nwiY I evN| Ab¨w`‡K GKwU avb‡ÿ‡Zi ev¯‘Z‡š¿ i‡q‡Q, avbMvQ, Nvmdwos, mvc, e¨vO, Bu`yi, †cuPv I CMj|

[XvKv †evW© 2020]

(K) cÖRvwZMZ ˆewPÎ¨Zv Kx? 1

(L) åƒ‡Yi ‡iP‡b Agivi f~wgKv Kx? 2

(M) DÏxc‡Ki cÖ\_g ev¯‘Z‡š¿ we`¨gvb Rxe¸‡jvi mgš^‡q m„ó GKwU Lv`¨Rv‡ji eY©bv `vI| 3

(N) DÏxc‡Ki ev¯ÍZš¿ `ywU‡Z Nvmdwos, e¨vO I Bu`yi Abycw¯’Z \_vK‡j ev¯ÍZ‡š¿ Kx cwieZ©b n‡e? we‡kølY Ki|