gvaexjZv ‡mU-K welq †KvW:

|  |  |  |
| --- | --- | --- |
| 1 | 0 | 9 |

**wgkb B›Uvib¨vkbvj K‡jR**

**2q †mwgóvi cixÿv - 2025 Bs**

**‡kÖwY: Aóg, welq: MwYZ**

**mgq: 2.30 N›Uv c~Y©gvb: 50**

‡h‡Kv‡bv 10wU cÖ‡kœi DËi `vI|

1| ‡Kv‡bv `ª‡e¨i µqgyj¨ 115 UvKv n‡j 15% jv‡f weµqgyj¨ KZ n‡e?

2| evwl©K 15% Pµe„w× gybvdvq 2500 UvKvi 7 eQ‡ii Pµe„w× gyjab KZ?

3| GKwU eM©vKvi ‡ÿ‡Îi GK evûi ˆ`N©¨ 200 wg. Ges evB‡i 3.5 wg. PIov GKwU iv¯Ív Av‡Q iv¯ÍvwUi ‡ÿÎdj KZ?

4| GKwU †PŠev”Pvq 25600 wjUvi cvwb a‡i| ‡PŠev”PvwUi MfxiZv 2.56 wg Ges cÖ¯\_ 2.5 wg. n‡j ‰`N©¨ KZ?

5| Drcv`‡K we‡kølb Ki : ax2 + (a2 + 1) x + a

6| Drcv`‡K we‡kølb Ki : a2 + 7ab +12b2

7| ‡hvMdj wbb©q Ki : + +

8| mij Ki : + +

9| ¸b Ki : , Ges

10| fvM Ki : ,

11| 5 †m.wg. evû wewkó eM© AvKu|

12| GKwU e‡M©i ‡ÿÎdj 121 eM©.‡m.wg. n‡j , Gi cwimxgv KZ ?

13| †kÖwY msL¨v Kx ? Ges †kÖwY msL¨v wbb©‡qi myÎwU †jL|

14| 7 , 5 , 14 , 13 , 10 , 8 , 9 , 11 , 12 , 6 msL¨v ¸‡jvi cwimi KZ?

15| cwimi Kv‡K e‡j ? cwimi wbb©‡qi myÎwU †jL |

m„Rbkxj Ask

[ cÖ‡Z¨K wefvM ‡\_‡K b¨ybZg 1 wU K‡i †gvU 5 wU cÖ‡kœi DËi `vI t]

[KÑ wefvM cvwUMwbZ]

1| Avwgbv †eMg 12% gybvdvq 9000 UvKv 5 eQ‡ii Rb¨ e¨vs‡K Rgv ivL‡jb |

(K) GKwU `ªe¨ 7500 UvKvq weµq Ki‡j 900 UvKv ÿwZ nq | hw` `ªe¨wU 8500 UvKv weµq Kiv nq , Z‡e KZ UvKv jvf ev ÿwZ n‡e ?

(L) Avwgbv †eMg 5 eQ‡i KZ UvKv Pµe„w× gybvdv cv‡e Zv wbY©q Ki |

(M) GKB nvi mij gybvdvq KZ eQi D³ Avmj , gybvdvÑAvm‡ji ‡`o¸b n‡e ?

2| GKwU AvqZvKvi cv‡K©i †ÿÎdj 10 GKi Ges ˆ`a© cÖ‡¯’i wZb ¸b | cv‡K©i evB‡i Pvi w`‡K 2wgUvi cÖ‡¯’i GKwU ivmÍv Av‡Q |

(K) 3 GKi‡K eM©M‡R cÖKvk Ki |

(L) iv¯ÍvwUi ‡ÿÎdj wbb©q Ki |

(M) cv‡K©i cwimxgvi mgvb ‡ÿÎdj wewkó GKwU eM©vKvi cyKz‡ii MfxiZv 2 wg.| cyKz‡ii cvwbi cwigvb KZ wK. MÖvg ?

LÑwefvM ( exRMwbZ )

3| a4b – ab4 , a3 + b3 , ab(a4 + a2b2 + b4) , x2 – x – ( a + 1 ) (a + 2 )

(K) 3q ivwk‡K Drcv`‡K we†kølb Ki |

(L) 4\_© ivwk‡K Drcv`‡K we‡kølb Ki |

(M) cÖgvb Ki †h 1g wZbwU ivwki j.mv.¸. 1g I 2q ivwki ¸bd‡ji mgvb |

4| A = x – 2 , B = x2 + 2x + 4 , C = x3 – 8 wZbwU exRMvwYwZK ivwk |

(K) †hvMdj wbb©q Ki :

(L) mij Ki :

(M) cÖgvb Ki †h :

MÑwefvM (R¨vwgwZ)

5| ABC G , BP Ges CQ `yBwU ga¨gv |

(K) †cwÝj K¤úv‡mi mvnv‡h¨ ‡K mgw×LwÐZ Ki |

(L) cÖgvb Ki †h , BC2 = CQ2 + 3AQ2

(M) cÖgvb Ki †h , 5BC2 = 4(BP2 +CQ2)

6| GKwU mvgšÍwi‡Ki `yBwU evnyi mwbœwnZ †Kv‡Yi ˆ`N©¨ 6 ‡m.wg. 5 ‡m.wg. Ges evû `ywUi AšÍfz©³ †KvY 70

(K) 6 ‡m.wg. evû wewkó GKwU eM© AvK |

(L) mvgšÍwiKwU AsKb Ki [ AsKwbi wPÎ I weeib mn ]

(M) mvgšÍwi‡Ki evûØq‡K †Kvb i¤^‡mi `ywU K‡b©i ˆ`N©¨ a‡i i¤^mwU AvK | [ AsK‡bi wPý I weeiY Avek¨K ]

NÑwefvM ( cwimsL¨vb )

7| wb‡P GKwU mviwb †`Iqv nj |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ‡kÖwbe¨vwß | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 |
| MbmsL¨v | 10 | 6 | 18 | 12 | 8 |

(K) 7, 5, 4, 9, 3, 8 Ercv`K ¸‡jvi ga¨K wbb©q Ki |

(\_) cÖ`Ë mviwY ‡\_‡K Mo wbb©q Ki |

(M) Drcv`K My‡jvi AvqZ‡jL AuvK |

8| 40 Rb M„wnbxi mvßvwnK mÂq ( UvKvq ) wb‡P †`Iqv njÑ

155, 173, 166, 143, 168, 160, 156, 146, 162, 158, 159, 148, 150, 147, 132, 136, 154, 140, 155, 145, 135, 151, 141, 169, 140, 125, 122, 140, 137, 175, 145, 150, 164, 142, 156, 152, 146, 148, 157, 167 |

(K) Drcv` My‡jv gv‡bi DaŸ©µ‡g mvRvI |

(L) ga¨K I cÖPziK wbY©q Ki |

(M) †kÖwb e¨eavb 5 a‡i MbmsL¨v wb‡ekb mviwb ˆZwi K‡i Mo wbY©q Ki |

eû wbe©vPwb Awfÿv

1| 5% gybvdvq 500 UvKv `yB eQ‡ii Pµe„w× gybvdv KZ ?

(K) 512.5 UvKv (L) 51.25 UvKv (M) 50.75 UvKv (N) 50.25 UvKv

2| 10% nvi gybvdvq 8000 UvKvi 2 eQ‡ii Pµe„w× gyjab KZ ?

(K) 1600 UvKv (L) 1680 UvKv (M) 9600 UvKv (N) 9680 UvKv

3| 10% gybvdvq 5000 UvKvq-

(i) 2 eQ‡ii gybvdv 1000 UvKv-

(ii) 8 eQ‡ii gybvdv Avm‡ji mgvb-

(iii) 5 eQ‡i Pµe„w×i gyjab 8052.55 UvKv-

wb‡Pi †KvbwU mwVK ?

(K) i I ii (L) i I iii (M) ii I iii (N) i, ii I iii

4| GK GKK evû wewkó e‡M©i K‡b©i ˆ`N© KZ ?

(K) 1.00 GKK (L) 1.41 GKK (M) 2.01 GKK (N) 4.00 GKK

5| GKwU AvqZ ‡ÿ‡Îi ˆ`a© 5 †m.wg. cÖ¯’ 2 wg. n‡j Gi cwiwmgv KZ ?

(K) 14 (L) 7 (M) 20 (N) 10

6| GKwU AvqZvKvi ‡ÿ‡Îi ˆ`N© 12 wg. Ges cÖ¯\_ 5wg. n‡j-

(i) cwiwmgv 34 wg. (ii) †ÿÎdj 60 eM© wg. (iii) GKwU K‡b©i ˆ`N©¨ 13 wg.

wb‡Pi †KvbwU mwVK?

(K) i I ii (L) i I iii (M) ii I iii (N) i, ii I iii

7| x2 + ( a + ) x + 1 Gi Drcv`K-

(i) x + a (ii) x + (iii) + a

wb‡Pi †KvbwU mwVK ?

(K) i I ii (L) i I iii (M) ii I iii (N) i , ii I iii

8| a3 – 1 Gi GKwU Drcv`K a – 1 n‡j AciwU KZ ?

(K) a + 1 (L) a2 – a – 1 (M) 1+ a + a2 (N) 1 – a – a2

9| a6 + b6 Gi GKwU Drcv`K-

(K) ( a2 + b2 )3 (L) ( a2 – b2 )3 (M) a4 + a2b2 + b4 (N) a4 – a2b2 + b4

10| Gi jwNó AvKvi wb‡Pi †KvbwU ?

(K) (L) (M) (N)

11| Gi jwNóiæc †KvbwU ?

(K) (L) (M) (N)

12| Gi jwNó iæc †KvbwU ?

(K) x (L) x+1 (M) x-1 (N) -1

13| = KZ ?

(K) (L) (M) (N)

14| I Gi ¸bdj KZ ?

(K) (L) (M) (N)

,

Dc‡ii Z\_¨ g‡Z 16 I 17 bs cª‡mœi DËi `vI-

16| cÖ\_g fMœvskwUi jwNó AvKvi †KvbwU ?

(K) (L) (M) (N)

17| fMœvsk `yBwUi ¸bdj KZ ?

(K) (L) (M) (N) 1

18| GKwU PZyf©yR AvK‡Z KqwU Abb¨ wbi‡cÿ Dcv‡Ëi cÖqRb ?

(K) 3 wU (L) 4 wU (M) 5 wU (N) 6 wU

19| `yBwU mwbœwnZ evû ‡`Iqv \_vK‡j wb‡Pi ‡KvbwU AvKv hvq ?

(K) eM© (L) mvgvšÍwiK (M) i¤^m (N) AvqZ

20| GKwU evû †`Iqv \_vK‡j †KvbwU AvKv hv‡e ?

(K) mvgvšÍwiK (L) i¤^m (M) AvqZ (N) eM©

21| cwigvcwUi †Kb cwigv‡ci Rb¨ GKwU mg‡Kvwb wÎfzR AvKv m¤¢e ?

(K) 4, 4, 5 (L) 5, 12, 13 (M) 8, 10, 12

22| G mg‡evb n‡j Gi-

(i) AwZfyR BC (ii) †ÿÎdj AB, AC (iii) =

wb‡Pi †KbwU mwVK-

(K) i I ii (L) i Iiii (M) ii I iii (N) i, ii I iii

23| wÎfz‡Ri evû¸‡jvi AbycvZ 1:2: , wÎfzRwU †Kvb ai‡bi ?

(K) mg‡KvwY (L) mgevû (M) ¯’zj‡Kvb (N) wemgevû

24| mg‡KvwY wÎfz‡Ri GKwU myÿ‡Kvb 30 n‡j Aci myÿ‡KvbwU KZ n‡e ?

(K) (L) (M) (N)

25| 70, 80, 60, 50, 85, 88, DcvË¸‡jv 6 Rb Qv‡Îi Mwb‡Z cÖvß b¤^i| ewb©Z DcvË mgyn‡K Kx e‡j ?

(K) web¨¯Í DcvË (L) Aweb¨¯Í DcvË (M) †kÖwY DcvË (N) ZZ¡

26| cwimi 25, †kªwYe¨veavb 4 n‡j kÖwYmsL¨v KZ n‡e ?

(K) 6 (L) 6.25 (M) 7 (N) 7.25

27| ( 6 - 10) ‡kªwYi ‡kÖwYe¨vß KZ?

(K) 4 (L) 5 (M) 6 (N) 10

28| 20 Gi ‡gxwjK ¸bbxqK KZ?

(K) 1 (L) 5 (M) 10 (N) 20

29| 9, 16, 25, 36 ......... ZvwjKvi ciewZ© msL¨vwU KZ?

(K) 41 (L) 45 (M) 47 (N) 49

30| cÖ\_g 6 wU we‡Rvo mvfvweK msL¨vi †hvMdj KZ?

(K) 42 (L) 36 (M) 30 (N) 25