



- 14 | ოგვზი უცვლელად მუდმივად ემუშავება გლუბის კარს და  
 დაწვავს?  
 (K) უფრო  
 (L) უკიდურესად  
 (M) თანაბრად  
 (N) ფრთხილად
- 15 | ოფისში - დასრულებული რეზიუმეები?  
 (K) მისთვის  
 (L) კვლავ  
 (M) გრძელდება  
 (N) მთავრდება
- ◆ უბრალოდ დიდი ხანია ცოცხალი 16 და 17 ბიჭები დედას ვი:  
 ეუბნებიან ცხელი ცივი წყლის მიწვევას სიძველეს  
 თუ ებიჯები უნდა ნიღბის დასრულება
- 16 | დიდი ხანია დასრულებული აბრაშის უბრალოდ რეზიუმეები  
 მთავრდება?  
 (K) ორი  
 (L) ავიწყდება  
 (M) რეზიუმეები  
 (N) კარგად
- 17 | კარგად იმის კვლევა მისთვის უკეთესი  
 i. ეუბნებიან  
 ii. თანაბრად  
 iii. -სიყვარული  
 უბრალოდ რეზიუმეები?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 18 | ოგვბი ოკრედიტის გაცემის უნარი  
 i. აგრეთვე, დასრულებული რეზიუმეები  
 ii. გვბიჯებს დასრულებული რეზიუმეები  
 iii. გვბიჯებს დასრულებული რეზიუმეები  
 უბრალოდ რეზიუმეები?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 19 | კნის რეზიუმეები უნდა გავაგრძელო?  
 (K) მეტი  
 (L) რეზიუმეები  
 (M) ბიჯებს  
 (N) კვლავ
- 20 | მეტი ანაბეჭდილი რეზიუმეები რეზიუმეები?  
 (K) გრძელდება  
 (L) ბიჯებს  
 (M) უკიდურესად  
 (N) თანაბრად
- 21 | თანაბრად გვბიჯებს რეზიუმეები ანაბეჭდილი?  
 (K) გრძელდება  
 (L) ბიჯებს  
 (M) რეზიუმეები  
 (N) მსმელი
- 22 | ორხელის მსმელი რეზიუმეები რეზიუმეები  
 დასრულებული?

- (K) რეზიუმეები  
 (L) ხელის  
 (M) კარგად  
 (N) ნიღბის
- 23 | ოგვბი უბრალოდ რეზიუმეები, რეზიუმეები  
 გიუბნებიან ავიწყდება რეზიუმეები ოგვბი  
 რეზიუმეები მთავრდება რეზიუმეები  
 i. აკრედიტის  
 ii. კვლავ  
 iii. რეზიუმეები  
 უბრალოდ რეზიუმეები?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 24 | რეზიუმეები რეზიუმეები?  
 (K) იმის  
 (L) გრძელდება  
 (M) კარგად  
 (N) თანაბრად
- 25 | დიდი ხანია რეზიუმეები  
 (K) ხელის  
 (L) იმის  
 (M) გვბიჯებს რეზიუმეები  
 (N) ბიჯებს რეზიუმეები
- 26 | მისი მსმელი რეზიუმეები დიდი ხანია რეზიუმეები  
 (K) ავიწყდება  
 (L) ბიჯებს  
 (M) აკრედიტის  
 (N) მსმელი რეზიუმეები
- 27 | ოკრედიტის დიდი ხანია რეზიუმეები  
 (K) ავიწყდება  
 (L) გრძელდება  
 (M) ეპი  
 (N) კვლავ
- 28 | მისთვის რეზიუმეები რეზიუმეები რეზიუმეები?  
 (K) კვლავ  
 (L) ობიექტი  
 (M) რეზიუმეები  
 (N) გვბიჯებს
- ◆ უბრალოდ დიდი ხანია ცოცხალი 29 და 30 ბიჭები დედას ვი:  
 ნიღბის ცივი რეზიუმეები რეზიუმეები რეზიუმეები  
 რეზიუმეები რეზიუმეები რეზიუმეები რეზიუმეები
- 29 | რეზიუმეები ოკრედიტის დიდი ხანია რეზიუმეები  
 რეზიუმეები?  
 (K) დიდი ხანია  
 (L) რეზიუმეები  
 (M) კარგად  
 (N) ეპი რეზიუმეები
- 30 | ოგვბი რეზიუმეები რეზიუმეები რეზიუმეები  
 i. რეზიუმეები  
 ii. ავიწყდება  
 iii. ავიწყდება  
 უბრალოდ რეზიუმეები?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii

tmĒ thv†m& - g  
Abj vBb g†Wj tU ÷ — 2020 mL<sup>a</sup>  
tKŪY t 9g

wel q t evsj v 2q cĪ (eūbbePbx AfxŪv)

wel q tKw		
1	0	2

mgq — 30 wgvbU

cYgvb — 30

bgv ..... tivj bs ..... kvLv .....

[ `be` : mieivnKZ eūbbePbx AfxŪvi DEĭcĪ cĳkĭe μwgK b†ti i vecitZ cĳĒ eYmŪj Z eEmgn nBtZ mWk/mteP Kō DEĭti i eĒw ej ctqU Kj g ōviv mŪY Fiv Ki tZ nte | cĳZw cĳkĭe grb-1 | cĳkĭcĪ tKvb cKvi `w / wPŪ t | I qv h†e bv | ]

- 1| gvb†li KŪvbmZ evK&ms†K†Zi msvb†K Kx etj?  
(K) aYnb  
(L) kĀ  
(M) evK  
(N) fvlv
- 2| vbw` e cwi†ek gvb†li e` I fv†ei cĳZxK tKvbU?  
(K) kĀ  
(L) evK  
(M) c`  
(N) AŪji
- 3| K†mi t†t` fvlvi cv`R` I cwi eZB N†U v†K?  
(K) Kvj I t`k†t`  
(L) cwi†ek I AĀj t†t`  
(M) t`k, Kvj I cwi†ek†t`  
(N) Kvj I `vb†t`
- 4| evsjv fvlv I mvin†Z`i cĳPxb w` kB tKvbU?  
(K) gnvfvi Z  
(L) Phŕc`  
(M) ivgvqY  
(N) R½bvgv
- 5| RiwU ktāi D`vniY tKvbU?  
(K) ni Zvj  
(L) j w/2  
(M) wĭ Kkv  
(N) Pvkz
- 6| YZi I I Zi wearv e`vKi†Yi tKvb Astk Avtj wPZ nq?  
(K) aYnbZ†Ēj  
(L) kĀZ†Ēj  
(M) evK`Z†Ēj  
(N) ifcZ†Ēj
- 7| tKvb eŪwŭj cĳg evsjv fvlvq evsjv e`vKiY iPbv K†ib?  
(K) W. mpxwZKgvi P†Avcv`vq  
(L) ivRv ivg†nvgb ivq  
(M) W. gnv`\$` knx` j w  
(N) W. Gbvj nK

- 8| kĀ gj tKvbU?  
(K) bgv cKwZ  
(L) cĳZ`q  
(M) wefw<sup>3</sup>  
(N) wuqv wefw<sup>3</sup>
- 9| th tKv†bv fvlvq e`eūZ eYmŪgō†K tm fvlvi Kx etj?  
(K) eY<sup>o</sup>  
(L) eYgŭj v  
(M) e`ĀbeY<sup>o</sup>  
(N) `†eY<sup>o</sup>
- 10| ŌR%bKŌ- kĀwJi miŪ w†Q` -  
(K) Rb + HK  
(L) Rb + HK`  
(M) Rb + GK  
(N) Rb + JK
- 11| tKvbUj wj ½vŠ† nq bv?  
(K) teqvB  
(L) mv†ne  
(M) KweivR  
(N) m½x
- 12| Ōi wĭk i wĭkŌ tKvb A†\_ŪŌi "3"?  
(K) AvwĀK`  
(L) mvgvb`  
(M) ZxeZV  
(N) avivewinKZv
- 13| A½evPK mL`v tKvbU?  
(K) 9  
(L) I ō  
(M) mBq  
(N) AvUB
- 14| KweZv ktāi eūePb-  
(K) KweZv „Q  
(L) KweZvgŭj v  
(M) KweZvi wR  
(N) KweZv mgn
- 15| c`wĭkZ w†t` R†Ki weivbZv nq wK†mi t†t`?

- (K) wμqv (L) evK<sup>∞</sup>  
(M) ePb (N) A<sub>-</sub><sup>⊙</sup>
- 16 | ōePbō ēvKi†Yi Kx RvZxq kākā?  
(K) Zrmg  
(L) cwi fwi K  
(M) Aa<sup>⊙</sup>Zrmg  
(N) wēt<sup>∞</sup> wK
- 17 | ōAwmsmv cig ag<sup>⊙</sup>GLv†b ag<sup>⊙</sup>tKvb A†<sub>-</sub><sup>⊙</sup>e<sup>∞</sup>eüZ  
ntqtQ?  
(K) mpxwZ  
(L) DrKI<sup>⊙</sup>  
(M) mrKvR  
(N) <sup>∞</sup>fve
- 18 | ōbq Qqō- evMavi wüi A<sub>-</sub><sup>⊙</sup>Kx?  
(K) wPi Akwš--  
(L) fixY Pμvš--  
(M) AcPq  
(N) gxgsvm
- 19 | mgv†mi mv†<sub>-</sub> tKvbüi wKQbv wqj Av†Q?  
(K) Kvi K  
(L) avZi  
(M) cKwZ  
(N) müü
- 20 | ōmgvmō ktāi A<sub>-</sub><sup>⊙</sup>Kx?  
(K) wētK<sup>∞</sup>  
(L) mst†¶cY/wqj b  
(M) mst†hvRb  
(N) mst†k<sup>∞</sup>
- 21 | ktāi Av†M †Kvbüü e†m?  
(K) AbyM<sup>⊙</sup>  
(L) DcmM<sup>⊙</sup>  
(M) cĹ<sup>∞</sup>q  
(N) wefw<sup>⊙</sup>
- 22 | th me avZi wētK<sup>∞</sup> Kiv hvq bv, Zv†<sup>∞</sup> i bvg Kx?  
(K) mwvZ avZi  
(L) tgšwj K avZi  
(M) thšwMK avZi  
(N) mst†hvMgj K avZi
- 23 | wμqv cKwZi m†½ tKvb cĹ<sup>∞</sup>q h<sup>⊙</sup> nq?  
(K) <sup>∞</sup>š cĹ<sup>∞</sup>q  
(L) Kr. cĹ<sup>∞</sup>q  
(M) ePb cĹ<sup>∞</sup>q  
(N) Zw×Z cĹ<sup>∞</sup>q
- 24 | th me cĹ<sup>∞</sup>q bvg ktāi tk†l h<sup>⊙</sup> n†q bZb kākā MVb  
K†i, Zv†<sup>∞</sup> i †K etj -  
(K) Kr. cĹ<sup>∞</sup>q  
(L) Zw×Z cĹ<sup>∞</sup>q

- (M) AbyM<sup>⊙</sup>  
(N) kākā wefw<sup>⊙</sup>
- 25 | MVb AbyM†i kākā KZ cKvi?  
(K) <sup>∞</sup>ycKvi  
(L) wZb cKvi  
(M) Pvi cKvi  
(N) cūP cKvi
- 26 | ōmZZwō tKvb c†<sup>∞</sup> i D<sup>∞</sup>vniY?  
(K) Ae<sup>∞</sup>q  
(L) wμqv  
(M) <sup>∞</sup>YevPK wētK<sup>∞</sup>  
(N) fveevPK wētK<sup>∞</sup>
- 27 | bxj AvKvk, meR gvW, Kv†jv tgN-G<sub>-</sub>†jv Kx evPK  
bvg wētK<sup>∞</sup>Y?  
(K) <sup>∞</sup>YevPK  
(L) i†ceevPK  
(M) fveevPK  
(N) Ae<sup>∞</sup>veevPK
- 28 | tKvb wμqv avZi mv†<sub>-</sub> eZ<sup>⊙</sup>v†b, AZxZ ev fwiel<sup>∞</sup>r  
Kv†j i wefw<sup>⊙</sup> h<sup>⊙</sup> n†q MWZ nq?  
(K) wK<sup>∞</sup>wμqv  
(L) thšwMK wμqv  
(M) mgwvKv wμqv  
(N) AmgwvKv wμqv
- 29 | fvl vi gj DcKiY Kx?  
(K) aYvb  
(L) evK<sup>∞</sup>  
(M) kākā  
(N) eY<sup>⊙</sup>
- 30 | ev†K<sup>∞</sup> <sup>∞</sup>w Ask<sub>-</sub>v†K- G <sup>∞</sup>w Kx?  
(K) wμqv I Kg<sup>⊙</sup>  
(L) D†l k<sup>∞</sup> I wetaq  
(M) KZP I Kg<sup>⊙</sup>  
(N) wētK<sup>∞</sup> I wētK<sup>∞</sup>Y

**tmÈ thvtdm& - g**  
**Abj vBb gfwj tU ÷ — 2020 mL<sup>a</sup>**  
**tKtY t 9g**  
**wel q t MwYZ (eûbepbx Afx¶v)**

wel q tKwW		
1	0	9

mgq — 30 wgwbu

cYgvb — 30

byg ..... tivj bs ..... kvLv .....

[ `be` : mieivnKZ eûbepbx Afx¶vi DEictÎ cðkë µwgK b¶ti i vecitZ cð È eYm¶j Z eEmgn nBtZ mWk/mte¶Kó DEiti i eEwU ej ctqU Kj g Øriv mæúY¶fiw Ki tZ nte| cðZw cðkë gvb-1| cðkacit tKvb cKvi `w / wPy t l qv hte bv | ]

- 1| wbtPi tKvbwU gj ` msL'v?  
 (K)  $\sqrt{3+3}$  (L)  $\sqrt{7+2}$   
 (M)  $\sqrt{7-2}$  (N)  $\sqrt{7 \times 2}$
- 2|  $m = \sqrt{3}$  ntj ,  $m$  Gi mvt\_ wbtPi tKvbwU , Y Ki tj  
 , Ydj Agj ` msL'v nte?  
 (K)  $\sqrt{9}$  (L)  $\sqrt{3}$   
 (M)  $\sqrt{27}$  (N)  $\frac{1}{\sqrt{3}}$
- 3|  $p = 3$  ,  $q = 0$  ntj -  
 i.  $\frac{p}{q}$  ev ` e msL'v  
 ii.  $\frac{q}{p}$  ev ` e msL'v  
 iii.  $pq$  ev ` e msL'v  
 wbtPi tKvbwU mWk?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- ◇ wbtPi Zt\_ i Avtj vtK 4 l 5 bs cðkë DEi `vl :  
 $p$  l  $q$  FYvZ¶K cYmsL'v Ges  $p > q$ .
- 4| wbtPi tKvbwU abvZ¶K msL'v wbt ` R Kti?  
 (K)  $p+q$  (L)  $p^2 - q^2$   
 (M)  $p-q$  (N)  $q-p$
- 5|  $pq$  Gi gvb tKvb ai tbi msL'v wbt ` R Kti?  
 (K) abvZ¶K  
 (L) FYvZ¶K  
 (M) Agj `  
 (N) fMusk
- 6|  $x = 2 + \sqrt{3}$  ntj ,  $x^2$  Gi gvb KZ?  
 (K)  $7 - 4\sqrt{3}$  (L)  $7 + 4\sqrt{3}$   
 (M)  $7 - 2\sqrt{3}$  (N)  $7 + 3\sqrt{3}$
- 7|  $a = \sqrt{2}$  ,  $b = \sqrt{3}$  ntj  $(a+b)^2 - 2ab$  Gi gvb  
 KZ?  
 (K) 1 (L) 2

- (M) 3 (N) 5
- 8|  $a^2 + \frac{1}{a^2} = 2$  ntj  $a + \frac{1}{a} = KZ?$   
 (K) 0 (L) 1  
 (M) 2 (N) 4
- 9|  $a+b=5$  Ges  $a-b=3$  ntj Gi gvb wY¶K Ki  
 $a^2 + b^2 = KZ?$   
 (K) 16 (L) 18  
 (M) 14 (N) 17
- 10|  $x + \frac{1}{x} = 4$  ntj  $\frac{x}{x^2 - 3x + 1}$  Gi gvb KZ?  
 (K) 1 (L)  $\frac{1}{2}$   
 (M) 3 (N)  $\frac{1}{4}$
- 11|  $\log_2 \sqrt{2}^{64}$  Gi gvb KZ?  
 (K) 2 (L) 3  
 (M) 4 (N) 8
- 12|  $\log_5 3\sqrt{5} + \log_5 5\sqrt{5}$  Gi gvb tKvbwU?  
 (K)  $\frac{1}{3}$  (L)  $\frac{1}{6}$   
 (M)  $\frac{5}{6}$  (N)  $\frac{6}{5}$
- ◇ wbtPi Zt\_ i Avtj vtK 13 l 14 bs cðkë DEi `vl :  
 $x = \log_{10} 2 + 2\log_{10} 5$ ,  
 $y = \log_{10} 3 + 2\log_{10} 7$
- 13| wbtPi tKvbwU  $x$  Gi mgvb?  
 (K)  $\log_1 100$  (L) 1  
 (M)  $\log_{10} (2 \times 5^2)$  (N)  $\log_{10} (2 \div 5^2)$
- 14|  $x - y$  Gi gvb wbtPi tKvbwU?  
 (K)  $\log_{10} \frac{50}{147}$  (L)  $\log_{10} \frac{147}{50}$   
 (M)  $\log_{10} (147 + 50)$  (N)  $\log_{10} (147 \times 50)$

15 |  $\log_3 x = 2$  ntj -

i.  $x = 9$

ii.  $\log_3 \sqrt{x} = 1$

iii.  $\log_x 3 = \frac{1}{2}$

wbtpi tkvbwu miwK?

(K) i | ii

(L) i | iii

(M) ii | iii

(N) i, ii | iii

16 | GKwU wlfri BwU evui N<sup>o</sup> 3 tm.wg. Ges 8 tm.wg. ntj ZZxq evui N<sup>o</sup>wbtpi tkvbwu?

(K) 3 tm.wg.

(L) 4 tm.wg.

(M) 6 tm.wg.

(N) 11 tm.wg.

17 | wlfri tfti -

i. wlfri GKwU ti LwP

ii. wlfri GKwU mvgZwij K tfti

iii. mgtkvYx wlfri mptkvYi ci ui cik

wbtpi tkvbwu miwK?

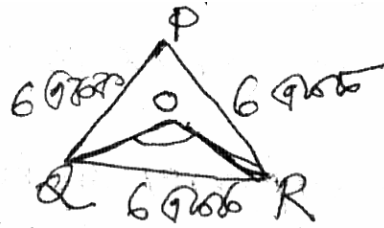
(K) i | ii

(L) i | iii

(M) ii | iii

(N) i, ii | iii

◆ wbtpi Zti Avtj vK 18 | 19 bs ckie DEi vl :



$\Delta PQR$  G  $\angle Q$  Ges  $\angle R$  Gi mguLUk0q ci ui O weftz wuj Z ntqtQ |

18 |  $\angle OQR$  Gi gvb KZ?

(K)  $30^\circ$

(L)  $45^\circ$

(M)  $60^\circ$

(N)  $90^\circ$

19 |  $\angle QOR$  Gi gvb KZ?

(K)  $30^\circ$

(L)  $60^\circ$

(M)  $120^\circ$

(N)  $180^\circ$

20 | mptkvYx wlfri mptkvY BwUtk ci uti i Kx tkvY ej v nq?

(K) mptK

(L) cik

(M) cex

(N) mij

21 |  $\tan A = 1$  ntj  $\cos A$  Gi gvb KZ?

(K)  $\frac{1}{\sqrt{2}}$

(L)  $\frac{1}{2}$

(M)  $\sqrt{2}$

(N) 2

22 |  $\sec \theta \sqrt{1 - \cos^2 \theta} = KZ?$

(K)  $\sin \theta$

(L)  $\cos \theta$

(M)  $\tan \theta$

(N)  $\cot \theta$

23 |  $\sin \theta = \frac{\sqrt{3}}{2}$  ntj  $\tan \theta$  Gi gvb KZ?

(K)  $\sqrt{3}$

(L)  $3\sqrt{3}$

(M)  $\frac{\sqrt{3}}{\sqrt{7}}$

(N)  $\frac{1}{\sqrt{3}}$

24 |  $\cot \theta = \frac{x}{y}$  ntj  $\operatorname{cosec} \theta = KZ?$

(K)  $\frac{x}{x^2 + y^2}$

(L)  $\frac{\sqrt{x^2 + y^2}}{y}$

(M)  $\frac{\sqrt{x^2 - y^2}}{y}$

(N)  $\frac{y}{\sqrt{x^2 - y^2}}$

25 |  $\frac{\sin^2 \theta}{\tan \theta} \cdot \operatorname{cosec}^2 \theta$  Gi gvb tkvbwu?

(K)  $\sin \theta$

(L)  $\cos \theta$

(M)  $\sec \theta$

(N)  $\cot \theta$

26 | tkvYx ceyZvi cwi gvc KquU?

(K) 2wU

(L) 3wU

(M) 4wU

(N) AmsL

27 | 8, 15, 4, 60, 4, 12, 9 DcvE, tjvi gaK KZ?

(K) 7

(L) 6

(M) 8

(N) 9

28 | 1 tftK 21 chS-mKj wtrvo msLvi Mo KZ?

(K) 9

(L) 10

(M) 10.5

(N) 11

29 |  $\sin 3A = \cos 3A$  nte hLb  $A = KZ?$

(K)  $10^\circ$

(L)  $15^\circ$

(M)  $20^\circ$

(N)  $45^\circ$

30 |  $\left(a - \frac{1}{a}\right)^2 = 16$  ntj  $a^3 - \frac{1}{a^3}$  Gi gvb tkvbwu?

(K) 52

(L) 61

(M) 67

(N) 76



- 15 | 0Avj -gvr̄ 0 ktāi A\_°Kx?  
 (K) wbi vqg  
 (L) ˘t̄ kt̄c̄ḡ  
 (M) m̄s̄nbZ  
 (N) Dct̄`k
- 16 | tKvb ivtZ mgM0Ki Avb GKt̄I bwhj nq?  
 (K) RgyAvi ivtZ  
 (L) wq̄oi vt̄Ri ivtZ  
 (M) eivtZi ivtZ  
 (N) K`t̄ii ivtZ
- 17 | Ki Avb gvr̄t̄`i fvlv-  
 i. mnR  
 ii. mvej xj  
 iii. RuUj  
 wbt̄Pi tKvbUJ m̄wK?  
 (K) i l ii (L) ii l iii  
 (M) i l iii (N) i, ii l iii
- 18 | Avj w̄ Zvqjv Aí Aí Kt̄i bwr̄j Kt̄ib-  
 (K) Avj Ki Avb  
 (L) BwAj  
 (M) hvej  
 (N) Zvl ivZ
- 19 | gnvbex (m.) KqU i wZt̄Z Ki Avb cv̄Vi AbgwZ t̄`b?  
 (K) 5uU  
 (L) 6uU  
 (M) 7uU  
 (N) 8uU
- 20 | cweT̄ Ki Avt̄b KqU m̄iv Avt̄Q?  
 (K) 112  
 (L) 113  
 (M) 114  
 (N) 115
- 21 | Avgvbt̄Zi wLqvbZ Kiv Kvi wPy?  
 (K) dvm̄t̄Ki  
 (L) Kw̄ct̄i i  
 (M) gbw̄ct̄Ki  
 (N) wq\_`vev`xi
- 22 | ˘t̄ kt̄c̄ḡ cKvk Kitz nq-  
 i. wbt̄Ri Kvt̄Ri gva`tg  
 ii. i aygt̄Li K\_v w`t̄q  
 iii. AvZ°gvbeZvi t̄mev Kt̄i  
 wbt̄Pi tKvbUJ m̄wK?  
 (K) i (L) ii  
 (M) i l ii (N) i, ii l iii
- 23 | AvLj vt̄Ki GK ePb Kx?  
 (K) Lj Kb

- (L) Lwj Kb  
 (M) gvLj Kb  
 (N) Lvj Kb
- 24 | AvLj vt̄K nvmvbn A\_°Kx?  
 (K) gv` ˘fve  
 (L) my` i Pwi T̄  
 (M) ˘Pwi T̄  
 (N) Lvi vc Pwi T̄
- 25 | Rxeṭbi t̄k̄b m̄ú` Kx?  
 (K) AvLj vt̄K nwig`vn  
 (L) wczv-gvZv  
 (M) t̄Q̄t̄j -t̄gt̄q  
 (N) AwfAZv
- 26 | DĒg Pwi t̄T̄i AwAKvi x wQ̄t̄j b-  
 (K) Bei wng (Av.)  
 (L) b̄n (Av.)  
 (M) ḡn̄s̄ḡ` (mv.)  
 (N) mKj bex-ivmj
- 27 | wh̄b ZvKI qv Aeḡ s̄b Kt̄ib Zvt̄K ejv nq-  
 (K) gĒwK  
 (L) ḡZvl qv° x  
 (M) BĒw̄d  
 (N) ḡplvmmi
- 28 | ZvKI qv kt̄ai A\_°Kx?  
 (K) cY`  
 (L) A½xKvi  
 (M) wei Z\_vKv  
 (N) Dch̄p̄
- ◊ wbt̄Pi DĪ xcKwU cto 29 l 30 bs cĀk̄e DĒi `vl :  
 Rbve Agj m̄v̄ne Agm̄ij g| wKŠ' Bmj vt̄gi Av`tk°  
 Ab̄c̄w̄YZ n̄t̄q wZvb ḡmj gvb n̄t̄Z B°OK |
- 29 | GgZve`vq Rbve Agj t̄K Kx̄m w̄ek̄jmx n̄t̄Z n̄t̄e?  
 (K) AvKvBt̄`  
 (L) Bmj vt̄g  
 (M) Bgv̄t̄b  
 (N) Bev` t̄Z
- 30 | ḡmj gvb nl qui ci Rbve Agt̄j i Ki Yxq n̄t̄e?  
 i. m̄iv d̄w̄Znv cov  
 ii. Avj w̄i Bev` Z Kiv  
 iii. w̄ek̄t̄mi Dci `p\_vKv  
 wbt̄Pi tKvbUJ m̄wK?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii



# tmÈ thv†m d m & - g

Abj vBb g†Wj tU ÷ — 2020 mL<sup>a</sup>

t k Ì Y t 9 g

wel q t mL<sup>a</sup> ÷ ag<sup>q</sup> Ì b w Z K w k ¶ | v (e ù m b e ¶ b x A f x ¶ | v)

wel q t K v W		
1	1	4

mgq — 30 w g w b U

c Y ¶ v b — 30

bvg ..... tivj bs ..... kvLv .....

[ `be` : mi e i v n K Z e ù m b e ¶ b x A f x ¶ | v D È i c t Ì c k k i e µ u g K b ÷ t i i w e c i x t Z c ð È e y m ÷ ¶ j Z e Ì m g n n B t Z m m W K / m t e ¶ K ó D È t i i e È u e j c t q U K j g Ø v i v m ÷ ú Y ¶ F i v U K i t Z n t e | c ð Z u c k k i e g r b - 1 | c k k o c t Ì t K i v c K v i ` w / w P y t ` l q v h t e b v | ]

- 1| hxi c w \_ e x t Z G t m U t j b t K b ?  
 (K) thb Avgiv Lv ` cvB  
 (L) thb Rxeb cvB  
 (M) w b i v c È v t ` q v i R b `   
 (N) t m e v t ` q v i R b `
- 2| Avgv t ` i g y ÷ ` v Z v t K ?  
 (K) hxi  
 (L) Av ` g  
 (M) Ave t n v g  
 (N) ` v D `
- 3| g v b j c i v a x b n t q c o j t K b ?  
 (K) c v t c i K v i t y  
 (L) w e k l m n v z k z v i K v i t y  
 (M) w g \_ ` v e j v i R b `   
 (N) w e k : L j v i R b `
- 4| hxi K r f v t e g Z i e i Y K t i b ?  
 (K) w e l c v t b i g v a ` t g  
 (L) µ k w e x n t q  
 (M) d u m i g v a ` t g  
 (N) \_ w j w e x n t q
- 5| c k Z g y ÷ K x ?  
 (K) m Z ` c \_  
 (L) t m v R v c \_  
 (M) A v t j v i c \_  
 (N) D b æ c \_
- 6| t d v t i Y b v B u s t M j g v b j l i t m e v K t i w e L ` v Z n t q  
 A v t Q b | Z v i m v t \_ m v ` k ` i t q t Q -  
 (K) g v ` v i t Z t i m v  
 (L) g v g v i x q v i  
 (M) i e x ` b v \_ V i K t i i  
 (N) t h v t m t d i
- 7| k t ` t K ¶ | g v K i v Ø v i v K x c k v k t c t q t Q ?  
 (K) t m e v K v t R A v Z w t e ` b  
 (L) e ` w ÷ ` v Z š t e r a  
 (M) m ÷ ú K ¶ | v K i v  
 (N) w b t R t K c k v k K i v

- 8| g v b j t K A b b ` e j v i K v i Y -  
 i. g v b w e K \_ t y i R b `   
 ii. e y x i R b `   
 iii. w b t R i c ð Z f v i R b `   
 w b t P i t K v b u U m m W K ?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 9| W r t q v i w j t L w b t R t K R v b v h v q | G K \_ w U i Z i r c h ¶ j  
 i. A Z x t Z i A w g t K R v b v  
 ii. e Z ¶ v t b i A w g t K R v b v  
 iii. f w e l ` t Z i A w g t K R v b v  
 w b t P i t K v b u U m m W K ?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 10| w b t m 1/2 R x e t b m e ¶ v t K v b u U t \_ t K h v q ?  
 (K) c Y ¶ v (L) K Z ¶ j  
 (M) A f v e t e r a (N) K Z Á Z r t e r a
- 11| g v ` v i t Z t i R v i R b f v b t K v b u U ?  
 (K) d v Y (L) t i v g  
 (M) B Z w j (N) c ` v t j ÷ v B b
- 12| g v b K v i R x e b w Q j ¶ | z ` t c ¶ g i c \_ | g v b K v P w i t u U  
 t K v b u U t K w b t ` R K t i t Q ?  
 (K) A v t Á t j v b v  
 (L) A v m ¶ q v  
 (M) t Z t i R v  
 (N) g w i q v M t i u U
- 13| G K w k Z j ` i K i t Z w k t m i c ¶ q v R b ?  
 (K) ¶ | g v i  
 (L) e U t Z j  
 (M) w e k t m i  
 (N) f v j e v m i
- 14| t K m g M Ø R x e b a t i w c Z v i B ` Ø v c v j b K t i t Q b ?  
 (K) Ave t n v g (L) Av ` g  
 (M) ` v D ` (N) hxi

- 15| gvb| tK mgvR evm Ki tZ nq tKb?  
 (K) gvb| mgvRK Rxe  
 (L) mgvR evm Ki tZ gvb| eva"  
 (M) mgvR evm Kiv gvb| i fve  
 (N) mgvR I gvb| ci uti cwi cK
- 16| dv`vi thvmd mgM0 Rxeb aBi B"Qv cvj b  
 Kti tQb| dv`vi thvmd tKvb Pwi tK mg\_0 Ki tQ?  
 (K) Avehvg  
 (L) `vD`  
 (M) Av`g  
 (N) hxi
- 17| gvb| mgvRK Rxe| Kvi Y-  
 i. ZvtK mgvR evm Ki tZ nq  
 ii. mgvR evm Kiv Zvi fve  
 iii. mgvR evm Ki tZ gvb| tK eva" Kiv ntqtQ  
 wbtPi tKvbU mwVK?  
 (K) i I ii (L) i I iii  
 (M) ii I iii (N) i, ii I iii
- 18| thvmd i `B tQtj A I B Zvt`i `i Lp Kv tQ  
 emvi tPov Kti | A I B th `yU Pwi tK wbt`R  
 Kti tQ-  
 i. hv tKve  
 ii. tRte`  
 iii. thvnb  
 wbtPi tKvbU mwVK?  
 (K) i I ii (L) i I iii  
 (M) ii I iii (N) i, ii I iii
- 19| `axbZvi mv tKvbU RwoZ?  
 (K) eva" Zv  
 (L) t`QvPwi Zv  
 (M) `vmZj  
 (N) KZg
- 20| tMrvmgvbx evMvfb KLB hxi Zvi Avmbqmk gZii K\_v  
 tftete`ttL KvZi ntqtQtj b?  
 (K) gZii `y b Av tM  
 (L) gZii wZb w` b Av tM  
 (M) gZii Av tMi iv tZ  
 (N) gZii w` tb
- 21| hv tKve I thvnb Kvi c`i tQtj b?  
 (K) ev`gtgtqi  
 (L) tRtet`i  
 (M) wZgw\_i  
 (N) ktj vgtbi
- 22| tK Avgt`i cKZ eU?  
 (K) Av`g  
 (L) Avehvg

- (M) hxi  
 (N) nev
- 23| hxi i tKvb wkl` weklmNvZKZv Kti tQj ?  
 (K) mvaywZi  
 (L) h`vm  
 (M) mvaycj  
 (N) mfvI
- 24| cKZ eUwKfvte wbePb Kiv hvq?  
 (K) eUi me ai tbi Kv tR mg\_0 Rvbv tBv  
 (L) eUi m tLi w` tb mv\_x nI  
 (M) wec t`i w` tb me v cv tK \_v Kv  
 (N) me v wbt Ri g`j Kvgbv Kiv
- 25| gvb| Ckji tK I Ckji gvb| tK weklm Kti | Gi h\_v\_@  
 Kvi Y ntj v-  
 (K) eUtZji Kvi tY  
 (L) c0\_0vi Kvi tY  
 (M) fvj evmvi Kvi tY  
 (N) wek tmi Kvi tY
- 26| Ckji Avgt`i Kx w` tq `Zix Kti tQb?  
 (K) we tK  
 (L) gbj`Zj  
 (M) fvj evmv  
 (N) AvZmshg
- 27| Ckji me`c0\_g Kv tK mw0 Kti tQb?  
 (K) nev (L) hxi  
 (M) gvi xqv (N) Av`g
- 28| Ckji gvb| tK mw0 Kti tQb| Kvi Y-  
 i. cY`ZwBi Rb"  
 ii. Ab" me mw0i Dci c`yZj Kivi Rb"  
 iii. tK0 Rxe wntmte c0Z0vi Rb"  
 wbtPi tKvbU mwVK?  
 (K) i I ii (L) i I iii  
 (M) ii I iii (N) i, ii I iii
- 29| gvb| I i GKv \_vKv fvj bq, Kvi Y Zvi -  
 (K) m`xi c0hvRb  
 (L) mrv t`h`i c0qvRb  
 (M) Z`v tMi c0qvRb  
 (N) wek tmi c0qvRb
- 30| Ckji gvb| tK KZZg w` tb mw0 Kti tQb?  
 (K) 4\_0` tb  
 (L) 5g w` tb  
 (M) 60 w` tb  
 (N) 7g w` tb

# tmÈ thvtdm&~g

Abj vBb gfwj tU ÷ — 2020 mL<sup>a</sup>

tktY t 9g

wel q t evsj v`k I wekrcwi Pq (eũbePbx AfX¶v)

wel q tKw		
1	5	0

mgq — 30 wgwbu

cYgvb — 30

bvg ..... tivj bs ..... kvLv .....

[ `be : mieivnKZ eũbePbx AfX¶vi DEictI cõkã µngK b`ti i wecixZ cõ È eYm`nj Z eEmgn nBtZ mWk/mteP Kó DEti i eEiU ej ctqU Kj g Øiv m`uY`fiU Ki tZ nte | cõZw cõkã gvb-1 | cõkã tI tKvb cKvi `w / wPy t I qv hte bv | ]

- 1| RvZxqZver` ej tZ Kx tevSvq?  
(K) RvZxq tPZbv  
(L) RvZxq cwi Pq  
(M) RvZxq HK`  
(N) RvZxq HwZn`
  - 2| KLB D`PK ivófvv Kivi cõve Kiv nq?  
(K) 1947 mvj i 14B AvMó  
(L) 1947 mvj i 17B Rp  
(M) 1947 mvj i 17B GwCj  
(N) 1947 mvj i 17B tg
  - 3| axti>`bv\_`È KZ mvj D`y I Bsti wRi cvkvcmk evsj vi e`enu`i i `we Rvbvb?  
(K) 1947  
(L) 1948  
(M) 1951  
(N) 1952
  - 4| kwDdi wbnZ nb KZ Zwi tL?  
(K) 21tk tde`qvix 1952  
(L) 22tk tde`qvix 1952  
(M) 23tk tde`qvix 1952  
(N) 23 tk tde`qvix 1951
- DÍxcKwU cto 5, 6bs cõkã DEi `vl :
- 1778 mvj t`tK 1799 mvj chS-dvYi bvbv DEvc NUBv aviv Ødiwv weceØ bvtg cwi wPZ | 1789 mvj i 14 Rj vB ew`j `M`AvµgY I `L`ji gra`tg RbMtYi weceX Af`l vb Rq hj` nq |
- 5| DÍxc tK Avtj wPZ NUBvi mv`\_ tKvbwU mv`k` cY?  
(K) AvMi Zj vi gvjv  
(L) 70Gi wbePb  
(M) 69-Gi MY Afj l vb  
(N) 69-Gi MYRvMi Y
  - 6| DÍxc tK Avtj wPZ NUBvi mv`\_ mv`k`cY`evsj v`tki NUBwU tKvb mvgnqK kvmtKi mgq msNwUZ nq?  
(K) AvBqpe Lvb  
(L) Bqwnqv Lvb  
(M) bwiRgj l xb

- (N) tMvj vg tgvv`\$
- 7| KZ mvj BDtbt`v KZR GKtk tde`qwi tK AvS-RWZK gvZ.fvlv w`em wntmte tNvl Yv Kiv nq?  
(K) 1998 (L) 1899  
(M) 2000 (N) 2001
- 8| hj`dvU mi Kv`ti i BktZnv`ti i AšF` wQj -  
i. ce`cwk`v`bi `vqEkvmb  
ii. 21tk tde`qwi QvU tNvl Yv  
iii. evsj v`k Ab`Zg ivófvv wntmte tNvl Yv wbtPi tKvbwU mWk?  
(K) i l ii (L) i l iii (M) ii l iii (N) i, ii l iii
- 9| ØAvti K dvépbØGi i PwqZv tK?  
(K) gpxi tPšajx  
(L) Rvni ivqnvb  
(M) mvdqv Kvgvj  
(N) Rvrvbvi v telMg
- 10| KwI i t¶tI ce`cwk`vb I cõg cwk`v`bi gta` KZ `elg` wQj ?  
(K) 56%  
(L) 58%  
(M) 65%  
(N) 81%
- 11| evsj v`tk tKvb ai tYi mi Kvi e`v cPwj Z?  
(K) ivócvZ kvwZ kvmb e`v  
(L) GKbvqK ZwišK kvmb e`v  
(M) MYZwšK kvmb e`v  
(N) hj` ivóq kvmb e`v
- 12| Avevng wj sKb tKvb t`tki tcm`wU wQj b?  
(K) Rgvb  
(L) dvY  
(M) Pxb  
(N) Avtgi Kv
- 13| MYZš;meØg cPwj Z nq tKv\_vq?  
(K) Gt`tY (L) hj` ivó`  
(M) tivtg (N) fYv`b

- 14 | MYZšK gL<sup>9</sup> A<sup>h</sup>W<sup>M</sup> t<sup>j</sup> v<sup>t</sup>Ki kvmb e<sup>t</sup>j u<sup>Q</sup>t<sup>j</sup> b t<sup>K</sup>?  
 (K) t<sup>M</sup>t<sup>U</sup>j  
 (L) i<sup>t</sup>kv  
 (M) G<sup>w</sup>i ÷ U<sup>j</sup>  
 (N) P<sup>w</sup>W<sup>P</sup>9
- 15 | R<sup>v</sup>j t<sup>f</sup>V<sup>U</sup> c<sup>0</sup> v<sup>b</sup>K<sup>v</sup>i x<sup>i</sup> m<sup>t</sup>e<sup>P</sup>P<sup>^</sup> Ê t<sup>R</sup>j K<sup>Z</sup> e<sup>Q</sup>i i<sup>?</sup>?  
 (K) 2 e<sup>Q</sup>i (L) 5 e<sup>Q</sup>i  
 (M) 10 e<sup>Q</sup>i (N) 20 e<sup>Q</sup>i
- 16 | g<sup>a</sup>h<sup>t</sup>M B<sup>D</sup>t<sup>i</sup> v<sup>t</sup>c A<sup>t</sup>b<sup>K</sup>U<sup>v</sup> m<sup>g</sup>q t<sup>K</sup>t<sup>U</sup> t<sup>M</sup>t<sup>Q</sup>-  
 i. m<sup>v</sup>gšZ<sup>w</sup>š<sup>K</sup> k<sup>v</sup>m<sup>t</sup>b  
 ii. %<sup>0</sup> t<sup>Z</sup>wš<sup>K</sup> k<sup>v</sup>m<sup>t</sup>b  
 iii. i<sup>v</sup>R<sup>v</sup>i ^<sup>0</sup>Z k<sup>v</sup>m<sup>t</sup>b  
 w<sup>b</sup>t<sup>P</sup>i t<sup>K</sup>v<sup>b</sup>U<sup>w</sup> m<sup>w</sup>M<sup>K</sup>?  
 (K) i l ii (L) i l iii (M) ii l iii (N) i, ii l iii  
 w<sup>b</sup>t<sup>P</sup>i A<sup>b</sup>t<sup>Q</sup> c<sup>0</sup> t<sup>o</sup> 17, 18, 19 b<sup>s</sup> c<sup>0</sup>k<sup>e</sup> D<sup>E</sup>i ^<sup>v</sup>l:  
 R<sup>b</sup>v<sup>e</sup> l<sup>q</sup>w<sup>R</sup> n<sup>v</sup>m<sup>v</sup>b R<sup>v</sup>Z<sup>x</sup>q m<sup>s</sup>m<sup>^</sup> w<sup>b</sup>e<sup>P</sup>t<sup>b</sup> G<sup>K</sup>R<sup>b</sup>  
 b<sup>w</sup>g<sup>t</sup>b<sup>k</sup>b c<sup>0</sup>B c<sup>0</sup> f<sup>l</sup> w<sup>Z</sup>u<sup>b</sup> K<sup>Z</sup>e<sup>t</sup>q<sup>i</sup> A<sup>b</sup>g<sup>w</sup>Z m<sup>v</sup>t<sup>c</sup>t<sup>q</sup>l G<sup>K</sup>w<sup>U</sup>  
 m<sup>f</sup>v K<sup>t</sup>i u<sup>Q</sup>t<sup>j</sup> b Z<sup>v</sup>i m<sup>f</sup>vq Z<sup>v</sup>i c<sup>0</sup>Z<sup>c</sup>t<sup>q</sup>l i t<sup>j</sup>v<sup>K</sup>R<sup>b</sup> e<sup>v</sup>a<sup>v</sup>  
 t<sup>q</sup> |
- 17 | D<sup>I</sup>x<sup>c</sup>t<sup>K</sup> l<sup>q</sup>w<sup>R</sup> n<sup>v</sup>m<sup>v</sup>b<sup>t</sup>K b<sup>w</sup>g<sup>t</sup>b<sup>k</sup>b c<sup>0</sup> v<sup>b</sup> K<sup>t</sup>i t<sup>Q</sup> t<sup>K</sup>?  
 (K) i<sup>v</sup>o<sup>c</sup>w<sup>Z</sup>  
 (L) m<sup>i</sup> K<sup>v</sup>i  
 (M) i<sup>v</sup>R<sup>%</sup>w<sup>Z</sup>K ^<sup>j</sup>  
 (N) c<sup>0</sup>v<sup>b</sup>g<sup>š</sup>x
- 18 | D<sup>I</sup>x<sup>c</sup>t<sup>K</sup> l<sup>q</sup>w<sup>R</sup> n<sup>v</sup>m<sup>v</sup>t<sup>b</sup>i c<sup>0</sup>Z<sup>c</sup>q<sup>l</sup> K<sup>x</sup> i<sup>K</sup>g K<sup>v</sup>R  
 K<sup>t</sup>i t<sup>Q</sup>?  
 (K) A<sup>v</sup>B<sup>w</sup>b  
 (L) t<sup>e</sup>A<sup>v</sup>B<sup>w</sup>b  
 (M) w<sup>b</sup>e<sup>P</sup>w<sup>b</sup> A<sup>v</sup>P<sup>i</sup>Y w<sup>e</sup>w<sup>a</sup> j ^<sup>N</sup>b  
 (N) w<sup>b</sup>e<sup>P</sup>w<sup>b</sup> A<sup>v</sup>P<sup>i</sup>Y w<sup>e</sup>w<sup>a</sup> i<sup>q</sup>l<sup>v</sup>
- 19 | l<sup>q</sup>w<sup>R</sup> n<sup>v</sup>m<sup>v</sup>t<sup>b</sup>i K<sup>i</sup>Y<sup>x</sup>q K<sup>x</sup>?  
 (K) c<sup>y</sup>j t<sup>k</sup>i K<sup>v</sup>t<sup>Q</sup> A<sup>w</sup>f<sup>t</sup>h<sup>v</sup>M K<sup>v</sup>  
 (L) c<sup>0</sup>Z<sup>c</sup>q<sup>l</sup>t<sup>K</sup> c<sup>0</sup>Z<sup>n</sup>Z K<sup>v</sup>  
 (M) c<sup>0</sup>Z<sup>c</sup>q<sup>l</sup>i w<sup>e</sup>i<sup>t</sup>x R<sup>b</sup>g<sup>Z</sup> M<sup>V</sup>b K<sup>v</sup>  
 (N) t<sup>K</sup>v<sup>b</sup> w<sup>K</sup>Q<sup>y</sup>b<sup>v</sup> K<sup>v</sup>
- 20 | w<sup>b</sup>e<sup>P</sup>w<sup>b</sup> K<sup>w</sup>g<sup>k</sup>t<sup>b</sup>i K<sup>w</sup>g<sup>k</sup>b<sup>v</sup>i M<sup>Y</sup> K<sup>v</sup>i w<sup>b</sup>K<sup>U</sup> c<sup>^</sup> Z<sup>v</sup>w<sup>M</sup>c<sup>I</sup>  
 t<sup>c</sup>k K<sup>i</sup>t<sup>Z</sup> c<sup>v</sup>t<sup>i</sup>b<sup>?</sup>  
 (K) c<sup>0</sup>v<sup>b</sup>g<sup>š</sup>x  
 (L) i<sup>v</sup>o<sup>c</sup>w<sup>Z</sup>  
 (M) w<sup>^</sup>u<sup>K</sup>v<sup>i</sup>  
 (N) c<sup>0</sup>v<sup>b</sup> w<sup>b</sup>e<sup>P</sup>t<sup>b</sup> K<sup>w</sup>g<sup>k</sup>b<sup>v</sup>i
- 21 | e<sup>Z</sup>g<sup>v</sup>t<sup>b</sup> c<sup>w</sup>\_e<sup>x</sup>e<sup>v</sup>c<sup>x</sup> t<sup>K</sup>v<sup>b</sup> a<sup>i</sup>t<sup>Y</sup>i D<sup>b</sup>q<sup>b</sup> N<sup>t</sup>U<sup>t</sup>Q<sup>?</sup>?  
 (K) t<sup>U</sup>K<sup>m</sup>B  
 (L) w<sup>P</sup>i ^<sup>v</sup>q<sup>x</sup>  
 (M) q<sup>l</sup>Y<sup>^</sup>v<sup>q</sup>x  
 (N) f<sup>v</sup>i m<sup>v</sup>g<sup>^</sup>n<sup>x</sup>b

- 22 | t<sup>U</sup>K<sup>m</sup>B D<sup>b</sup>q<sup>t</sup>b<sup>i</sup> j<sup>q</sup>l<sup>^</sup> e<sup>v</sup> A<sup>f</sup>x<sup>0</sup> K<sup>Z</sup>w<sup>U</sup>?  
 (K) 8<sup>w</sup>U (L) 17<sup>w</sup>U  
 (M) 19<sup>w</sup>U (N) 21<sup>w</sup>U
- 23 | SDG-Gi c<sup>Y</sup>P<sup>f</sup>c K<sup>x</sup>?  
 (K) Sustainable Development Goals  
 (L) Sustainable Developing Goal  
 (M) Sustainable Development Gains  
 (N) Stable Development Goal
- 24 | e<sup>v</sup>s<sup>j</sup> v<sup>t</sup> t<sup>k</sup>i c<sup>0</sup>v<sup>b</sup> b<sup>^</sup>x b<sup>q</sup> t<sup>K</sup>v<sup>b</sup>U<sup>?</sup>?  
 (K) c<sup>0</sup>U<sup>v</sup>  
 (L) c<sup>i</sup>i  
 (M) w<sup>m</sup>U<sup>z</sup>  
 (N) h<sup>g</sup>b<sup>v</sup>
- 25 | e<sup>p</sup>c<sup>l</sup> t<sup>^</sup>t<sup>K</sup> K<sup>x</sup>f<sup>v</sup>t<sup>e</sup> b<sup>Z</sup>b t<sup>m</sup>t<sup>Z</sup>a<sup>v</sup>i v<sup>i</sup> D<sup>r</sup>c<sup>w</sup>E<sup>^</sup> n<sup>q</sup>?  
 (K) b<sup>^</sup>x L<sup>b</sup>b K<sup>t</sup>i  
 (L) c<sup>w</sup>b<sup>i</sup> c<sup>0</sup>j t<sup>m</sup>t<sup>Z</sup>  
 (M) f<sup>w</sup>g<sup>K</sup>t<sup>^</sup>u<sup>i</sup> K<sup>v</sup>i t<sup>Y</sup>  
 (N) c<sup>0</sup>K<sup>w</sup>Z<sup>K</sup> K<sup>v</sup>i t<sup>Y</sup>
- 26 | e<sup>v</sup>s<sup>j</sup> v<sup>t</sup> t<sup>k</sup>i m<sup>v</sup>i<sup>v</sup> e<sup>Q</sup>i t<sup>b</sup>š P<sup>j</sup>v<sup>P</sup>j K<sup>t</sup>i ^<sup>v</sup>t<sup>K</sup>-  
 (K) 3,865 w<sup>K</sup>.w<sup>g</sup>.  
 (L) 4,865 w<sup>K</sup>.w<sup>g</sup>.  
 (M) 9,833 w<sup>K</sup>.w<sup>g</sup>.  
 (N) 5,833 w<sup>K</sup>.w<sup>g</sup>.
- 27 | m<sup>v</sup>i<sup>v</sup> e<sup>Q</sup>i t<sup>K</sup>v<sup>b</sup> e<sup>b</sup>f<sup>w</sup>g<sup>i</sup> M<sup>v</sup>Q<sup>^</sup> t<sup>j</sup>v m<sup>e</sup>R<sup>^</sup> v<sup>t</sup>K<sup>?</sup>?  
 (K) m<sup>v</sup>š<sup>x</sup>q w<sup>P</sup>i n<sup>w</sup>i r l c<sup>I</sup>c<sup>Z</sup>b<sup>k</sup>x<sup>j</sup> e<sup>b</sup>f<sup>w</sup>g  
 (L) m<sup>v</sup>š<sup>x</sup>q c<sup>I</sup> S<sup>i</sup>v e<sup>b</sup>f<sup>w</sup>g  
 (M) t<sup>m</sup>t<sup>Z</sup>R e<sup>b</sup>f<sup>w</sup>g  
 (N) M<sup>i</sup>v<sup>b</sup> e<sup>b</sup>f<sup>w</sup>g
- 28 | t<sup>K</sup>v<sup>b</sup> b<sup>^</sup>x i<sup>?</sup> D<sup>r</sup>c<sup>w</sup>E<sup>^</sup> j<sup>?</sup> e<sup>v</sup>s<sup>j</sup> v<sup>t</sup> t<sup>k</sup>i?  
 (K) A<sup>v</sup>^<sup>v</sup>B  
 (L) b<sup>v</sup>d  
 (M) g<sup>v</sup>Z<sup>v</sup>g<sup>u</sup>i x  
 (N) c<sup>0</sup>U<sup>v</sup>
- 29 | R<sup>j</sup> w<sup>^</sup> j<sup>r</sup> t<sup>K</sup>v<sup>b</sup> a<sup>i</sup>t<sup>Y</sup>i k<sup>w</sup>3 m<sup>^</sup>u<sup>?</sup>?  
 (K) b<sup>e</sup>v<sup>q</sup>b<sup>t</sup>h<sup>v</sup>M<sup>^</sup>  
 (L) A<sup>v</sup>b<sup>w</sup>e<sup>K</sup>  
 (M) c<sup>v</sup>i g<sup>v</sup>Y<sup>w</sup>e<sup>K</sup>  
 (N) i<sup>v</sup>m<sup>v</sup>q<sup>w</sup>b<sup>K</sup>
- 30 | t<sup>^</sup>t<sup>k</sup>i t<sup>K</sup>v<sup>b</sup> w<sup>^</sup>t<sup>k</sup>i c<sup>v</sup>n<sup>v</sup>o<sup>x</sup> A<sup>^</sup>^<sup>t</sup>j L<sup>w</sup>b<sup>R</sup> m<sup>^</sup>u<sup>?</sup> c<sup>v</sup>l q<sup>v</sup>  
 h<sup>v</sup>q?  
 (K) c<sup>e</sup>f<sup>^</sup>^<sup>t</sup>j  
 (L) c<sup>w</sup>o<sup>g</sup>v<sup>^</sup>^<sup>t</sup>j  
 (M) ^<sup>v</sup>q<sup>l</sup>Y<sup>v</sup>^<sup>t</sup>j  
 (N) D<sup>E</sup>i<sup>v</sup>^<sup>t</sup>j

# tmÈ thv†m d m & - g

Abj v Bb g†Wj tU ÷ — 2020 mLª

t k i Y t 9g

wel q t i mvqb weÁvb (eũmbePbx Afx¶v)

wel q t K v W		
1	3	7

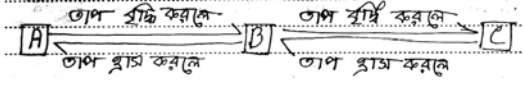
mgq — 25 wgrbU

cYgvb — 25

bvg ..... tivj bs ..... kvLv .....

[ `be : mi eivnKZ eũmbePbx Afx¶vi DEict† cõkõ µugK b†i i vecitZ cõ È eYm¶j Z eEmgnBtZ mWk/mteP Kõ DEiti eEiW ej ctqU Kj g Øriv m=úY¶FivU Ki†Z nte| cõZiW cõkõ gvb-1| cõkõ†† tKvb cKvi `M / wPy † I qv h†e bv | ]

- weÁv†bi th kvLvq c`vt\_P MVb, ag¶I cwi eZB wbtq Av†j vPbv Kiv nq Zv†K etj -  
(K) c`v\_¶weÁvb  
(L) b¶weÁvb  
(M) i mvqb  
(N) Rxe weÁvb
- tgvtgi gj Dcv`vb tKvbU?  
(K) M¶KvR  
(L) w†Kj  
(M) nvB†W¶KveB  
(N) GimW
- AvaybK i mvq†bi RbK tK?  
(K) Rwei Be†b nvBqvB  
(L) i eV¶etqj  
(M) †W†g¶m¶Uvm  
(N) j`vfq¶m†q
- kixi†K i mvq¶bK `è` t\_†K i ¶vi Rb` e`eüZ nq tKvbU?  
(K) Av†cõb  
(L) gv`c  
(M) tmdwU Mj j m  
(N) n`vÜM¶¶m
- cvKv Avg wgrõ nq th\_†j vi Dcw`wZ†Z-  
i. M¶KvR  
ii. m¶µvR  
iii. d†±vR  
wb†Pi tKvbU mWk?  
(K) i I ii  
(L) ii I iii  
(M) i, ii I iii  
(N) i I iii
- Avj †Kug kãwU tKvb fiv v t\_†K G†m†Q?  
(K) eisj v  
(L) dviwm  
(M) Avime  
(N) B†i wR

- AbmÜvb I MtelYv cõµqv i cõg avc tKvbU?  
(K) wel qe`wba¶Y  
(L) cwi K i bv cõvqb  
(M) mg`K Ávb ARB  
(N) djvdj m=ú†K¶AvMvg aviYv  
◇ wb†Pi Ab†`Q`wU cto 8 I 9 bs cõkõ DEi `vl :  

- B Gi t¶††-  
i. Avš†AvYweK AvKI¶ A †\_†K Kg  
ii. wv`B AvKvi Av†Q  
iii. P†c AvqZb mvqvb` m†KvPbkxj  
wb†Pi tKvbU mWk?  
(K) i I ii (L) ii I iii  
(M) i I iii (N) i, ii I iii
- A-Gi t¶†† tKvbU mWk?  
(K) Avš† AvYweK kw³ Kg  
(L) AvKvi I AvqZb Av†Q  
(M) P†c m†KvPbkxj  
(N) Z†c cwi eZB nq bv
- emvewo†Z e`eüZ wmj Üvti tKvb ai†bi M`vm\_†K?  
(K) w†\_b  
(L) B†\_b  
(M) tç†c b  
(N) weDwU b
- H₂, He, N₂, O₂-G† i g†a` e`vcb nvi me†P†q teuk Kvi?  
(K) H₂  
(L) He  
(M) N₂  
(N) O₂

12 |  $\text{NH}_4\text{Cl}$ ,  $\text{I}_2$ ,  $\text{AlCl}_3$ - thSM, tj v tKvb ai tbi c`v\_?

- (K) Ea<sup>+</sup>cwZZ
- (L) ev<sup>+</sup>úxfZ
- (M) Zij
- (N) cvbxq

13 | Zvfc cñvi Y teik nte Kvi?

- (K) wnwj qvg M'vm
- (L) gvte<sup>9</sup>
- (M) `p
- (N) cwb

14 | tKvbUJ `ZtúZ<sup>c</sup>áúqv?

- (K) e'vcb
- (L) wbtmi Y
- (M) Mj b
- (N) útb

15 | AvUtgi avi Yv t`b tK?

- (K) tWtgvuUvm
- (L) j`vfqumtq
- (M) Wwëb
- (N) Gwi ÷Uj

16 | tgšwj K c`vt\_<sup>9</sup> ,Y eRvq ivtL Ggb ¶i Zg KYvi  
bvq-

- (K) cigvYy
- (L) AYy
- (M) Btj KUb
- (N) wDUB

17 | Fi msL`vtK tj Lv nq cigvYycZxtKi -

- (K) evg cvtki wtp
- (L) Wwb cvtki wtp
- (M) evg cvtki Dcti
- (N) Wwb cvtki Dcti

18 | cigvYj M tkjt Kqil Dcku<sup>3</sup> t`\_vtK?

- (K) 1
- (L) 2
- (M) 3
- (N) 4

19 |  $^{32}_{15}\text{P}$  AvBtmvtUvc wtpi tKvbUj t¶t e`eüZ nq?

- (K) it<sup>3</sup>i wj Dtkwggqv tivM wby<sup>9</sup> I wPukrmvq
- (L) nvo ¶iq wby<sup>9</sup> KitZ
- (M) wUDgvi wPukrmvq
- (N) \_vBitqW Mtsi tKvl ewx wqštY

20 |  $^1_1\text{H}^+$  AvqbuUz-

- i. Btj KUb msL`v kb`
- ii. tçU<sup>9</sup>b msL`v kb`
- iii. wDUB msL`v kb`

- wtpi tKvbUJ mwVK?
- (K) i I ii
- (L) i I iii
- (M) ii I iii
- (N) i, ii I iii

21 | AvaybK ch<sup>9</sup>q m<sup>1</sup> Awe<sup>9</sup>KZ nq KZ mtjt?

- (K) 1789
- (L) 1813
- (M) 1818
- (N) 1913

22 | IUPAC KZ<sup>9</sup> tKZ tgštj i msL`v KZw?

- (K) 98
- (L) 112
- (M) 118
- (N) 120

23 | ch<sup>9</sup>q mvi wYtZ AI Gi Ae`vb tKvb Mötç?

- (K) 11
- (L) 13
- (M) 15
- (N) 17

24 | ch<sup>9</sup>q mvi wYtZ tgštj i ch<sup>9</sup>qKZ ag<sup>9</sup>evg t`tK Wwtb  
ewx cvq-

- i. AvqwbKi Y kur<sup>3</sup>
- ii. Btj KUb Avm<sup>3</sup>
- iii. Zwor FYvZtKZv

- wtpi tKvbUJ mwVK?
- (K) i I ii
- (L) i I iii
- (M) ii I iii
- (N) i, ii I iii

25 | msKi avZt<sup>9</sup>tetÄ Gi Dcv`vb tKvbUJ?

- (K) Zvgv I wU<sup>9</sup>b
- (L) tj vnv I Zvgv
- (M) Kcvi I wU<sup>9</sup>b
- (N) Kcvi I wR<sup>1</sup>/<sub>4</sub>

# tmÈ thvtdm&-g

Abj vBb gfwj tU ÷ — 2020 wL<sup>a</sup>

tkiY t 9g

wel q t c`v\_@eÁvb (eúbePbx AfX¶v)

wel q tKwW		
1	3	6

mgq — 25 wgvbU

cYgvb — 25

bvg ..... ti vj bs ..... kvLv .....

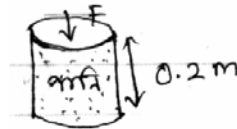
[ `be` : mieivnKZ eúbePbx AfX¶vi DEi cti ctkie mugK bafi i ecixZ cõ È eYfij Z eEmgn nBtZ mWk/mteKó DEti i eEúW ej ctoU Kj g ðiv m@YfiW Ki tZ nte| cõZúW ctkie gvb-1| ctkocti tKvb cKvi `wM / wPy t` I qv hvte bv | ]

- 1| tK mhMhY m@úuKZ fweL`ðvYxi Rb` weL`vZ?  
(K) t\_wj m  
(L) AvBb = vBb  
(M) ti vgi  
(N) tetKtij
- 2| cigvYj cõ\_ugK avi Yv t` b tK?  
(K) we\_c\_vtMvi vm  
(L) tWgvmpUvm  
(M) Betb wmbv  
(N) Avj nvfRb
- 3| weM e`vs KZ eQi AvtM NtU?  
(K) 12 wevj qb  
(L) 13 wevj qb  
(M) 14 wevj qb  
(N) 15 wevj qb
- 4| wbtPi tKvbU tgšij K i wvk?  
(K) Zwor wefe  
(L) Zvc  
(M) I Rb  
(N) fi
- 5| fi cwigvci Av`k@wKtj vMóg wbaftY th wmwj Úvi e`eúZ ntqtQ Dnvi e`vma@KZ tm.wg.?  
(K) 1  
(L) 1.95  
(M) 3.3  
(N) 3.9
- 6| GK AftUv I qvU mgvb KZ I qvU?  
(K)  $10^{-9}w$   
(L)  $10^{-12}w$   
(M)  $10^{-15}w$   
(N)  $10^{-18}w$
- 7|  $at^2$  Gi gvT v tKvbU?  
(K) L

- (L)  $LT^{-1}$   
(M)  $LT^{-2}$   
(N)  $LT^2$
- 8| tKvbU t fzi i wvk?  
(K)  $kw^3$  (L) fi teM  
(M) mgq (N) ZvcgvT v
- 9| `wZ wbyqj Rb` wbtPi tKvbU e`envi Kiv nq?  
(K) b`vbtwglvi  
(L) w`úftWwglvi  
(M) nvBtWwglvi  
(N) e`vti wglvi
- 10| Zj tYi gvT v tKvbU?  
(K)  $LT^{-1}$   
(L)  $LT^{-2}$   
(M)  $ML^{-2}$   
(N)  $MT^{-1}$
- 11| wbtPi tKvbU mWk bq?  
(K)  $a = \frac{v-u}{t}$  (L)  $v = u + at$   
(M)  $a = \left(\frac{u+v}{2}\right)t$  (N)  $s = \left(\frac{u+v}{2}\right)t$
- 12| g<sup>3</sup> fvte coš-mKj e`-  
i. mgvb mgq mgvb c\_ AwZµg Kti  
ii. wfbawfbawmgq f-cjò tcsQ  
iii. Gi AwZµvš` tZj mgqti etM<sup>9</sup> mgvbcwZK wbtPi tKvbU mWk?  
(K) i | ii (L) i | iii  
(M) ii | iii (N) i, ii | iii
- ◇ wbtPi D`xcKwU cto 13 I 14 bs ctkie DEi `vl : GKwU e`tK Dctii w`tK wbt¶c Kivi 10s ci fvgtZ wcti Avmj |

- 13| e<sup>-</sup>u<sup>i</sup> w<sup>t</sup>q<sup>i</sup>c<sup>Y</sup> teM KZ?  
 (K) 100 ms<sup>-1</sup>  
 (L) 65.4 ms<sup>-1</sup>  
 (M) 49 ms<sup>-1</sup>  
 (N) 20 ms<sup>-1</sup>
- 14| e<sup>-</sup>u<sup>i</sup> m<sup>t</sup>e<sup>P</sup>P KZ D<sup>"</sup>PZvq DV<sup>t</sup>e?  
 (K) 98.5 m  
 (L) 122.5 m  
 (M) 200.3 m  
 (N) 300 m
- 15| w<sup>-</sup>c<sup>0</sup> w<sup>b</sup>w<sup>3</sup> 0v<sup>i</sup> e<sup>-</sup>i Kx c<sup>w</sup>i g<sup>v</sup>c Kiv nq?  
 (K) fi  
 (L) Av<sup>r</sup>F<sup>K</sup>I<sup>R</sup> Z<sup>i</sup>Y  
 (M) Av<sup>r</sup>F<sup>K</sup>I<sup>R</sup> ej  
 (N) NI<sup>Y</sup> ej
- 16| Av<sup>r</sup>F<sup>K</sup>I<sup>R</sup> Z<sup>i</sup>t<sup>Y</sup>i g<sup>v</sup>l<sup>v</sup> t<sup>K</sup>v<sup>b</sup>w<sup>J</sup>?  
 (K) L  
 (L) LT<sup>-1</sup>  
 (M) LT<sup>-2</sup>  
 (N) ML<sup>-1</sup>
- 17| RoZ<sup>v</sup>-  
 i. GK<sup>w</sup>U c<sup>0</sup>K<sup>w</sup>ZK NUb<sup>v</sup>  
 ii. c<sup>w</sup>i eZ<sup>f</sup>bi Rb<sup>"</sup> e<sup>t</sup>j i c<sup>0</sup>q<sup>v</sup>Rb  
 iii. I Rb 0v<sup>i</sup> c<sup>w</sup>i g<sup>v</sup>c Kiv hvq  
 w<sup>b</sup>t<sup>P</sup>i t<sup>K</sup>v<sup>b</sup>w<sup>J</sup> m<sup>w</sup>VK?  
 (K) i l ii  
 (L) i l iii  
 (M) ii l iii  
 (N) i, ii l iii
- 18| e<sup>-</sup>K t<sup>-</sup>K <sup>w</sup>j 0z<sup>t</sup>j -  
 i. <sup>w</sup>j l e<sup>-</sup>f<sup>K</sup>i fi<sup>t</sup>eM mgg<sup>l</sup>x nq  
 ii. <sup>w</sup>j l e<sup>-</sup>f<sup>K</sup>i fi<sup>t</sup>eM mgg<sup>v</sup>t<sup>bi</sup> nq  
 iii. e<sup>-</sup>f<sup>K</sup>i c<sup>0</sup>v<sup>r</sup> teM <sup>w</sup>j i Z<sup>j</sup> b<sup>v</sup>q Kg nq  
 w<sup>b</sup>t<sup>P</sup>i t<sup>K</sup>v<sup>b</sup>w<sup>J</sup> m<sup>w</sup>VK?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 19| 100kg f<sup>t</sup>i i GK<sup>w</sup>U e<sup>-</sup>i Dci 2 t<sup>m</sup>t<sup>K</sup>U hver  
 200N ej c<sup>0</sup>q<sup>v</sup>M Ki<sup>t</sup>j , teM Kx c<sup>w</sup>i g<sup>v</sup>Y e<sup>w</sup>x c<sup>v</sup>t<sup>e</sup>?  
 (K) 4ms<sup>-1</sup>  
 (L) 2ms<sup>-1</sup>  
 (M) 1ms<sup>-1</sup>  
 (N) 0ms<sup>-1</sup>

- 20| 2kg f<sup>t</sup>i i t<sup>K</sup>v<sup>b</sup> e<sup>-</sup>i teM 3ms<sup>-1</sup> t<sup>-</sup>K 6ms<sup>-1</sup> Kiv  
 n<sup>t</sup>j Gi M<sup>w</sup>Z k<sup>w</sup>3 KZ e<sup>w</sup>x c<sup>v</sup>t<sup>e</sup>?  
 (K) 27J  
 (L) 9J  
 (M) 36J  
 (N) 18J
- 21| GK<sup>w</sup>U e<sup>-</sup>i fi 7kg| G<sup>t</sup>K f<sup>-</sup>c<sup>0</sup> t<sup>-</sup>K 2000 cm  
 D<sup>"</sup>PZvq Z<sup>j</sup> t<sup>j</sup> w<sup>e</sup>f<sup>e</sup>k<sup>w</sup>3 KZ n<sup>t</sup>e? [g = 9.8ms<sup>-2</sup>]  
 (K) 1372 J  
 (L) 32.67 J  
 (M) 1176 J  
 (N) 1376 J
- 22| t<sup>K</sup>v<sup>b</sup>w<sup>J</sup> A<sup>b</sup>e<sup>r</sup>q<sup>b</sup>t<sup>h</sup>v<sup>M</sup>" k<sup>w</sup>3?  
 (K) e<sup>v</sup>t<sup>q</sup>v<sup>g</sup>v<sup>m</sup>  
 (L) w<sup>r</sup>I<sup>-</sup>v<sup>0</sup>v<sup>j</sup>  
 (M) w<sup>b</sup>D<sup>w</sup>K<sup>q</sup>v<sup>i</sup>  
 (N) t<sup>m</sup>v<sup>j</sup> v<sup>i</sup>
- ◇ w<sup>r</sup>P<sup>t</sup> t<sup>-</sup>K 23 l 24 bs c<sup>0</sup>k<sup>i</sup>e D<sup>E</sup>i <sup>-</sup>v<sup>l</sup> :



- 23| c<sup>v</sup>t<sup>t</sup>i Z<sup>j</sup> t<sup>-</sup>k KZ Pa P<sup>v</sup>c A<sup>b</sup>f<sup>Z</sup> n<sup>t</sup>e?  
 (K) 49000  
 (L) 19600  
 (M) 9800  
 (N) 1960
- 24| c<sup>v</sup>t<sup>t</sup>i g<sup>3</sup>Z<sup>t</sup>j 20N P<sup>v</sup>c c<sup>0</sup>q<sup>v</sup>M Kiv n<sup>t</sup>j Z<sup>v</sup>-  
 i. c<sup>w</sup>mbi m<sup>e</sup>f<sup>"</sup> m<sup>y</sup>g P<sup>v</sup>c c<sup>0</sup>q<sup>v</sup>M Ki<sup>t</sup>e  
 ii. c<sup>v</sup>t<sup>t</sup>i m<sup>K</sup>j w<sup>-</sup>t<sup>K</sup> P<sup>v</sup>c c<sup>0</sup>q<sup>v</sup>M Ki<sup>t</sup>e  
 iii. i<sup>g</sup>v<sup>r</sup>l c<sup>v</sup>t<sup>t</sup>i Z<sup>j</sup> v<sup>q</sup> P<sup>v</sup>c c<sup>0</sup>q<sup>v</sup>M Ki<sup>t</sup>e  
 w<sup>b</sup>t<sup>P</sup>i t<sup>K</sup>v<sup>b</sup>w<sup>J</sup> m<sup>w</sup>VK?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 25| i<sup>"</sup>t<sup>e</sup>j t<sup>m</sup>v<sup>R</sup>v c<sup>t</sup>- 5 t<sup>m</sup>t<sup>K</sup>t<sup>U</sup> 50 m <sup>-</sup>t<sup>Z</sup>i A<sup>w</sup>Z<sup>u</sup>g  
 K<sup>t</sup>i |  
 i. Z<sup>v</sup>i A<sup>w</sup>Z<sup>u</sup>v<sup>s</sup>-<sup>-</sup> t<sup>Z</sup>i 50 m  
 ii. Z<sup>v</sup>i <sup>-</sup>w<sup>Z</sup> 10 ms<sup>-1</sup>  
 iii. Z<sup>v</sup>i t<sup>e</sup>t<sup>M</sup>i 10 ms<sup>-1</sup>  
 w<sup>b</sup>t<sup>P</sup>i t<sup>K</sup>v<sup>b</sup>w<sup>J</sup> m<sup>w</sup>VK?  
 (K) i l ii (L) ii l iii  
 (M) i l iii (N) i, ii l iii



# tmÈ thvtdm&-g

Abj vBb gfwj tU ÷ — 2020 wL<sup>a</sup>

tkiY t 9g

wel q t Rxe weÁvb (eúvbePbx Afx¶v)

wel q tKwW		
1	3	8

mgq — 25 wgvbU

cYgvb — 25

bug ..... ti vj bs ..... kvLv .....

[ `be` : mieivnKZ eúvbePbx Afx¶vi DEicti cðkè µngK bafi i wcixtZ cð È eY¶¶ij Z eEmgn nBtZ mwK/mfeKó DEiti eÉwU ej ctqU Kj g ðiv mæúY¶fiwU KitZ nte| cðZwU cðkè gvb-1| cðkæcti tKvb cKvi `wM / wPy t | qv hvte bv | ]

- 1| Rxe weÁvbi tKvb kvLvq KxUcZ½ wbtq Avtj vPbv Kiv nq?  
 (K) GtUvtgij wR  
 (L) BtKvj wR  
 (M) µvBtþvj wR  
 (N) gvBtKvj wR
- 2| wbtþi tKvbU Rxe weÁvbi Ašf<sup>3</sup> wel q?  
 (K) wRb cðh<sup>3</sup>  
 (L) tKvl we`v  
 (M) cðZÉje`v  
 (N) eb` cðYx we`v
- 3| wbtþi tKvb wbgq Abjvvti cðYxi bvgKiY Kiv nq?  
 (K) ICZN  
 (L) ICBN  
 (M) IUPAC  
 (N) UNBD
- 4| **Nymphea nouchali**-GwU Kvi `eÁvbK bvg?  
 (K) RvZxq cwl  
 (L) RvZxq dj  
 (M) RvZxq gvQ  
 (N) RvZxq dj
- 5| j vBtþvRvtgi KvR tKvbU?  
 (K) Lv` Zwi  
 (L) kw<sup>3</sup> Drcv`b  
 (M) RxeYyf¶Y  
 (N) Awgl `Zwi
- 6| tKvti cvl qvi nvDþri wSj ¶-þ KqU?  
 (K) 1wU  
 (L) 2wU  
 (M) 3wU  
 (N) 4wU
- 7| gvBtUvKwUþvi wFZtii AveiYwU fuR ntq wbtþi KtþwU `Zwi Kti |  
 (K) wLwó  
 (L) Aw ¶mvg

- (M) g`wU<sup>a</sup>  
(N) Mðbv
- 8| wDwKqvi wSj ¶-Kx w`tq MWZ?  
 (K) tçUw I wj Mwbb  
 (L) tçUw I wj wCw  
 (M) tçKwUw I mþewi b  
 (N) wj wCw I KvBwUw
- 9| Rj R Dw<sup>m</sup>¶` eo eo evqy Kwi xh<sup>3</sup> c`vti KvBgvK Kx etj ?  
 (K) tKvti bKvBgv  
 (L) tKvtj b KvBgv  
 (M) A`vti b KvBgv  
 (N) t`-vBW
- 10| RvBtj g-  
 i. Dw<sup>m</sup>¶` i cwienb wUmj  
 ii. Lv<sup>3</sup>¶i Kwpvgj cwb mieivn Kti  
 iii. Ni tKvl mxfþKvl I m½xtKvl  
 wbtþi tKvbU mwK?  
 (K) i I ii (L) ii I iii  
 (M) i I iii (N) i, ii I iii
- ◇ wbtþi DīxcKwU cto 11 I 12 bs cðkè DEi `vl :  
 gvi K I mvRx` Dbæ aiþbi gvBtþvvt`wv ch¶e¶¶iYi  
 Rb` `þ aiþbi bgbv tKvl t`lqv ntj v| gvi tKi  
 bgbvq eo GKwU duKv `vb cwij w¶Z ntj I mvRxt` i  
 bgbvq Zv t` Lv tMj bv|
- 11| gvi K I mvRxt` i Dftqi bgbvq wbtþi tKvbU cvl qv hvte?  
 (K) tKvl cðPxi  
 (L) tmbU¶j  
 (M) tKvti cvl  
 (N) tKvl wSj ¶-
- 12| mvRxt` i bgbvq wbtþi tKvbU cvl qv hvte?  
 (K) tKvl cðPxi (L) tmbU¶j  
 (M) tµvtgicv¶ (N) cwrGv tggteb

- ◇ wotPi Di'xcKuU cto 13 I 14 bs cOkie DEi `vl :  
wmaqg dUlej tLj tZ wMtq nVvr cv tKtU tdjj | KvUv  
Ask t\_tK cPi i<sup>3</sup> qiy ntjv |
- 13 | i<sup>3</sup> wotPi tKvb cKvi wUmyi A<sup>3</sup>MZ?  
(K) mij wUmy  
(L) dVBeim thvRK wUmy  
(M) Zij thvRK wUmy  
(N) tcwk wUmy
- 14 | i<sup>3</sup> i<sup>3</sup>m-  
i. 91-92% cwb \_vtK  
ii. 8-9% `Re I A%Re c`v\_@\_vtK  
iii. wevfbet cUUb \_vtK  
wotPi tKvbU mwK?  
(K) i I ii  
(L) ii I iii  
(M) i, ii I iii  
(N) i I iii
- 15 | i<sup>3</sup> i Dcv`vb KqU?  
(K) 2uU  
(L) 4uU  
(M) 1uU  
(N) 8uU
- 16 | tKvb Di'tk" tKvl wefvRtbi gva'tg tKvtI msL'v  
epx NtU \_vtK?  
(K) Rxtai epx  
(L) Rxtai cwi cYzv cUB  
(M) Rxtai eskepx  
(N) Rxtai Aw`Z" i'v
- 17 | gvtqwm'tmi Kvi'tY tKvtI -  
i. t'vgtvRvtgi msL'vi cwi eZB NtU  
ii. n'vc'tqW msL'K M'vtgU `Zwi  
iii. \_Yv\_ tYi w`wZkxj Zv eRvq \_vtK  
wotPi tKvbU mwK?  
(K) i I ii  
(L) ii I iii  
(M) i I iii  
(N) i, ii I iii
- 18 | wotPi tKvbU GK tKvl x Rxe?  
(K) cwL  
(L) gvby  
(M) MwQ  
(N) A`wgev
- 19 | A`rfweK tKvl wefvRtbi dtj th tivtMi mjo nq Zv  
ntjv-  
(K) G`vRgv  
(L) K`vYvi

- (M) wotDtgwbcv  
(N) hpv
- 20 | Avtj vK ch'q cwb tft0 wKtm cwi YZ nq?  
(K) Aw tRb  
(L) nvBtWtRb  
(M) Btj KUb  
(N) me KqU
- 21 | **ATP-**  
i. tK `Re gy't etj  
ii. tft0 ADP I AMP `Zwi nq  
iii. g<sup>3</sup> kw<sup>3</sup>i evnK  
wotPi tKvbU mwK?  
(K) i I ii  
(L) ii I iii  
(M) i I iii  
(N) i, ii I iii
- 22 | wvtgi tKvb Astk tme c`v\_@AvtQ?  
(K) mv`v Astk  
(L) Km'tg  
(M) Avei'tY  
(N) tLvj tK
- ◇ wotPi Di'xcKuU cto 23 I 24 bs cOkie DEi `vl :  
mevZ khtbi mefkl avc ntjv Btj KUb c'evnZsj  
Btj KUb c'evnZt'sj c'g wZbU avtc Drcbæ  
NADH<sub>2</sub>, FADH<sub>2</sub>, Rwi Z ntq ATP I cwb  
Drcbæq |
- 23 | mevZ khtb c'p'qvq KZ wKtj vK'vj wi kw<sup>3</sup> Drcbæq?  
(K) 688 wKtj vK'vj wi (L) 580 wKtj vK'vj wi  
(M) 680 wKtj vK'vj wi (N) 575 wKtj vK'vj wi
- 24 | mevZ khtb c'p'qvq Btj KUb c'evnZ'sj tKv\_vq  
msNwUZ nq?  
(K) wotDwKqvtm  
(L) gvBtUvKw'vtq  
(M) tm>U'tRvg  
(N) Mj wR e`'
- 25 | Lv` c'Yi KvR-  
i. t`tni epx mvab  
ii. tivM c'Z'tivaK kw<sup>3</sup> epx  
iii. i vnvqwbK wev'qvq Di'xcbv thvMv'tbv  
wotPi tKvbU mwK?  
(K) i I ii  
(L) i I iii  
(M) ii I iii  
(N) i, ii I iii



- (L) mgZj veZj v tj Ý  
(M) DĚj tj Ý (N) DĚj veZj tj Ý
- 15 | tKvbuU kv<sup>3</sup> kvj x GmW?  
(K) bvBuJK (L) A<sup>w</sup>vmuJK  
(M) mvBuJK (N) A· vuj K
- 16 | tewKs tmvWvi mstKZ tKvbuU?  
(K) Nacl (L) NH<sub>4</sub>Cl  
(M) NaHCO<sub>3</sub> (N) CaCO<sub>3</sub>
- 17 | A<sup>w</sup>v<sup>g</sup>mbqvqg bvB<sup>t</sup>Uu `Zwi nq-  
(K) HNO<sub>3</sub> t<sub>-</sub>tK (L) H<sub>2</sub>SO<sub>4</sub> t<sub>-</sub>tK  
(M) H<sub>3</sub>(PO<sub>4</sub>) t<sub>-</sub>tK (N) HCl t<sub>-</sub>tK
- 18 | wei x cwbi P<sup>H</sup> KZ?  
(K) 4 (L) 5  
(M) 6 (N) 7
- 19 | wgtmm Rvgyj x mgm<sup>v</sup> mgvavtb Avi l t<sub>l</sub>Z cvt<sub>i</sub> b-  
i. Kwcl  
ii. Av<sup>v</sup> Pv  
iii. meR Pvc  
wb<sup>t</sup>Pi tKvbuU m<sup>w</sup>K?  
(K) i l ii (L) i l iii  
(M) ii l iii (N) i, ii l iii
- 20 | kv<sup>3</sup> kvj x GmW nt<sup>Q</sup>-  
i. H<sub>2</sub>SO<sub>4</sub>  
ii. HNO<sub>3</sub>  
iii. HCl  
wb<sup>t</sup>Pi tKvbuU m<sup>w</sup>K?  
(K) i l ii (L) i l iii  
(M) ii l iii (N) i, ii l iii
- wb<sup>t</sup>Pi D<sup>i</sup>x<sub>c</sub>KuU co Ges 21 l 22bs c<sup>0</sup>ke DEi `vl :  
gm<sup>t</sup>i Wvj tewk cwigvY Lvl qvi ci m<sup>w</sup>R<sup>`</sup> t<sub>c</sub>tU c<sup>0</sup>U  
e<sup>v</sup> Ab<sup>f</sup>e K<sup>t</sup>i, t<sub>c</sub>tUi e<sup>v</sup> Dckg Kivi Rb<sup>o</sup> tm Lvevi  
tmvW Lvq|
- 21 | D<sup>i</sup>x<sub>c</sub>tKi tmvWvUj i m<sup>v</sup>qv<sup>w</sup>bK bvg Kx?  
(K) tmvWvqv K<sup>v</sup>te<sup>0</sup>bU  
(L) tmvWvqv m<sup>v</sup>j t<sub>d</sub>U  
(M) tmvWvqv nvB<sup>t</sup>W<sup>t</sup>Rb m<sup>v</sup>j t<sub>d</sub>U  
(N) tmvWvqv nvB<sup>t</sup>W<sup>t</sup>Rb K<sup>v</sup>te<sup>0</sup>bU
- 22 | tmvWvU-  
i. GKuU j eY  
ii. Gi Rj xq `eY GmWvQ  
iii. Gi Rj xq `eY <sup>0</sup>vi xq  
wb<sup>t</sup>Pi tKvbuU m<sup>w</sup>K?  
(K) i l ii (L) i l iii  
(M) ii l iii (N) i, ii l iii

- 23 | 60 tKuR f<sup>t</sup>i GKuU e<sup>-</sup>i lci ch<sup>0</sup> ej 180  
wbDUb ntj D<sup>3</sup> e<sup>-</sup>i ZiY KZ nte?  
(K) 0.33 wg/tm<sup>2</sup> (L) 3 wg/tm<sup>2</sup>  
(M) 240 wg/tm<sup>2</sup> (N) 10800 wg/tm<sup>2</sup>
- 24 | AwZwi <sup>3</sup> NI <sup>0</sup>Y-  
i. Zvc Drcb<sup>0</sup>q  
ii. ht<sup>0</sup>sj ` <sup>0</sup>Zv ew<sup>x</sup> cvq  
iii. c<sup>0</sup>Zj gmY K<sup>t</sup>i  
wb<sup>t</sup>Pi tKvbuU m<sup>w</sup>K?  
(K) i l ii (L) i l iii  
(M) ii l iii (N) i, ii l iii
- 25 | Pj š-<sup>v</sup>m t<sub>-</sub>tg t<sup>t</sup> evmhv<sup>0</sup>x mvg<sup>t</sup>b S<sup>t</sup>K c<sup>o</sup> t<sub>k</sub>b?  
(K) N<sup>g</sup>tq<sub>-</sub>v<sup>v</sup>Kvi K<sup>v</sup>i t<sup>Y</sup> (L) Ab<sup>o</sup>gb<sup>-</sup> <sub>-</sub>v<sup>v</sup>Kvi K<sup>v</sup>i t<sup>Y</sup>  
(M) w<sup>-</sup>wZ RoZvi Rb<sup>o</sup> (N) MwZ RoZvi Rb<sup>o</sup>
- 26 | RoZvi cwi gvck tKvbuU?  
(K) ej (L) l Rb  
(M) fi (N) w<sup>-</sup>wZ
- 27 | ej -  
i. e<sup>-</sup>i MwZi w<sup>-</sup> K cwi eZ<sup>0</sup> Ki t<sub>z</sub> cv<sup>t</sup>i  
ii. MwZkxj e<sup>-</sup>i MwZ n<sup>v</sup>m Ki t<sub>z</sub> cv<sup>t</sup>i  
iii. e<sup>-</sup>i fi cwi eZ<sup>0</sup> Ki t<sub>z</sub> cv<sup>t</sup>i  
wb<sup>t</sup>Pi tKvbuU m<sup>w</sup>K?  
(K) i l ii (L) i l iii  
(M) ii l iii (N) i, ii l iii
- 28 | t<sup>0</sup>gvRvBM<sup>v</sup>m ej t<sub>z</sub> tevSvq-  
i. <sup>0</sup>U c<sup>0</sup>KU Rxb  
ii. GKuU c<sup>0</sup>KU l GKuU c<sup>0</sup>Qb<sup>0</sup>Rxb  
iii. <sup>0</sup>U c<sup>0</sup>Qb<sup>0</sup>Rxb  
wb<sup>t</sup>Pi tKvbuU m<sup>w</sup>K?  
(K) i l ii (L) i l iii  
(M) ii l iii (N) i, ii l iii
- wb<sup>t</sup>Pi Ab<sup>0</sup>Q<sup>-</sup>U co Ges 29 l 30bs c<sup>0</sup>ke DEi `vl :  
wRb c<sup>0</sup>K<sup>0</sup>skj K<sup>v</sup>tR j wM<sup>t</sup>q e<sup>v</sup>vK<sup>t</sup>U<sup>w</sup>i qv t<sub>-</sub>tK i i<sup>o</sup> K<sup>t</sup>i  
D<sup>w</sup>c l c<sup>0</sup>xi t<sup>0</sup>t<sup>0</sup> bZb GK ai<sup>t</sup>Yi Rxe Drcb<sup>0</sup>Kiv m<sup>0</sup>e  
nt<sup>0</sup>q<sup>0</sup> G<sup>0</sup>U GK<sup>0</sup>U w<sup>0</sup>kl c<sup>x</sup>wZ|
- 29 | c<sup>x</sup>wZi bvg Kx?  
(K) w<sup>0</sup>t<sup>0</sup>UvK<sup>0</sup>Uf t<sup>0</sup>K<sup>0</sup>bs (L) gwj K<sup>j</sup> vi dwg<sup>0</sup>  
(M) U<sup>0</sup>Y<sup>t</sup>R<sup>t</sup>b<sup>w</sup>mm (N) wRb t<sub>-</sub>iw<sup>c</sup>
- 30 | U<sup>0</sup>Y<sup>t</sup>R<sup>0</sup>bK U<sup>0</sup>t<sup>0</sup>Uv-  
i. w<sup>0</sup>ej t<sup>0</sup>cv<sup>t</sup>K  
ii. m<sup>0</sup>t<sup>0</sup>t<sup>0</sup>Ri cwi gvY tekx<sub>-</sub>v<sup>t</sup>K  
iii. Z<sup>0</sup>k big<sub>-</sub>v<sup>t</sup>K  
wb<sup>t</sup>Pi tKvbuU m<sup>w</sup>K?  
(K) i l ii (L) i l iii  
(M) ii l iii (N) i, ii l iii



- 14 | BwZnm ntj v eZgub I AZxtZi gta GK Ašaxb  
msj vc Dw<sup>3</sup>WJ Kvi?  
(K) tn̄i vtWUvtmi (L) B. GBP Kvi  
(M) B. we tUBj t̄i (N) e<sup>v</sup>cm̄t̄bi
- 15 | t̄ k I mgvtRi DbwZ Z\_v t̄ ktc̄gi Rb<sup>o</sup> Acwi nvh<sup>o</sup>  
i. BwZnm  
ii. RvZxqZv̄eva  
iii. AZxZ HwZn<sup>o</sup>  
wb̄t̄Pi t̄Kvb̄U mwVK?  
(K) i l ii (L) ii l iii  
(M) i l iii (N) i, ii l iii
- 16 | evsj vt̄ t̄ki gvb̄t̄i msM̄gx nevi Kvi Y Kx?  
(K) bwZkx̄Zv̄ō Avenl qv  
(L) mgZj f̄wgi f̄c  
(M) So R̄t̄j v<sup>o</sup>Qȳt̄mi mv̄t̄\_hy  
(N) Lv<sup>o</sup> e<sup>v</sup>P̄T̄<sup>o</sup>
- 17 | b<sup>o</sup>xc\_ Ḡt̄ t̄ki thvM̄thvM I gvj vgvj cwi en̄t̄bi  
GKwU eo gra<sup>o</sup>g n̄l qvi Kvi Y Ḡt̄ t̄ki -  
i. vekj mgf̄wq AĀj  
ii. c̄Pi b<sup>o</sup>-b<sup>o</sup>x  
iii. FZi<sup>o</sup>e<sup>v</sup>P̄T̄<sup>o</sup>  
wb̄t̄Pi t̄Kvb̄U mwVK?  
(K) i l ii (L) ii l iii (M) i l iii (N) i, ii l iii
- ◆ wb̄t̄Pi D̄I xcKwU c̄to 18 l 19 bs c̄k̄k̄e D̄Ei<sup>o</sup> v̄l :  
Awḡt̄bi gvgvi ewo Xiv̄Kvi w̄eμgc̄t̄i, tmLv̄tb Awgb  
Āt̄bK c̄P̄xbKv̄t̄j i w̄KQywb<sup>o</sup> k̄b̄ t̄ L̄t̄Z cvq, Gi ḡt̄a<sup>o</sup>  
w̄k̄j v̄ w̄j w̄c<sup>o</sup>t̄j v̄ t̄ t̄L tm ḡp̄ nq | Gme w̄k̄j w̄j w̄c̄t̄Z  
w̄eμgc̄t̄i l bve<sup>o</sup> G<sup>o</sup> w̄U bvg Aw̄4Z w̄Qj |
- 18 | Awḡt̄bi cwi w̄PZ n̄l qv wb<sup>o</sup> k̄b̄ t̄j v̄ c̄P̄xb t̄Kvb  
Rbc̄t̄ i Bw̄Z enb K̄t̄i?  
(K) t̄M̄So (L) mgZU  
(M) e<sup>o</sup> (N) ēt̄i<sup>o</sup>
- 19 | GB Rbc<sup>o</sup> w̄U c̄P̄xb evsj vi<sup>o</sup> i<sup>o</sup> Z̄c̄Y<sup>o</sup> Rbc<sup>o</sup>, Kvi Y GilU-  
i. GKwU c̄P̄xb Rbc<sup>o</sup>  
ii. GB Rbc<sup>o</sup> t̄ t̄K evOw̄j Rm̄Zi Drcw̄E  
iii. i<sup>o</sup> Z̄c̄Y<sup>o</sup> t̄b̄S̄em̄Yw̄R<sup>o</sup> K̄ t̄K<sup>o</sup>  
wb̄t̄Pi t̄Kvb̄U mwVK?  
(K) i l ii (L) i l iii  
(M) ii l iii (N) i, ii l iii
- 20 | Kvi gZit̄Z evsj vi BwZnr̄m GK<sup>o</sup> t̄h̄m̄c̄Y<sup>o</sup> AŪKvi gq  
h̄t̄Mi mPbv nq?  
(K) t̄ e<sup>o</sup> t̄Bi (L) mḡ<sup>o</sup> t̄Bi  
(M) k̄k̄v̄t̄i (N) t̄M̄cv̄t̄j i
- 21 | t̄Nvovi Mw̄o Kv̄t̄ i hvbevnb w̄Qj ?  
(K) t̄w̄t̄ q̄t̄ i (L) w̄k̄ t̄ i  
(M) k̄<sup>o</sup> t̄ i (N) ab̄t̄ i

- 22 | evsj v mwnt̄Z<sup>o</sup> i c̄P̄xbZg wb<sup>o</sup> k̄b̄ Kx?  
(K) k̄b<sup>o</sup> c̄j v̄Y (L) Ph̄c̄<sup>o</sup>  
(M) m̄j w̄<sup>o</sup> K̄b̄f̄gZ (N) gnv̄vi Z
- 23 | c̄P̄xb evsj vi c̄P̄w̄j Z Drme w̄Qj -  
i. Rb̄w̄ogx ii. w̄kniv  
iii. āvZw̄Zxqv  
wb̄t̄Pi t̄Kvb̄U mwVK?  
(K) i l ii (L) i l iii (M) ii l iii (N) i, ii l iii
- 24 | cZw̄R ? w̄ t̄bgvi  
k̄b<sup>o</sup> v̄t̄b t̄Kvb̄ BD̄t̄i v̄cxq t̄Kv̄e<sup>o</sup> v̄bi bvg em̄t̄e?  
(K) I j<sup>o</sup> v̄R (L) di v̄m  
(M) B̄st̄i R (N) t̄<sup>o</sup> w̄b̄k
- 25 | beve w̄miv RD̄t̄i Šj vi t̄lgZv j vt̄fi ci c̄ō w̄gK mgm̄v  
w̄Qj -  
i. N̄t̄m̄U teM̄t̄gi I oh̄š̄i  
ii. gxi Rvd̄t̄i J x Z<sup>o</sup>  
iii. kl KZR̄½ Gi I oh̄š̄i  
wb̄t̄Pi t̄Kvb̄U mwVK?  
(K) i l ii (L) i l iii (M) ii l iii (N) i, ii l iii
- ◆ wb̄t̄Pi D̄I xcKwU c̄to 26 l 27 bs c̄k̄k̄e D̄Ei<sup>o</sup> v̄l :  
i<sup>o</sup> n̄xi e<sup>o</sup> ev BwZnr̄t̄mi GKwU cv̄w e<sup>o</sup> Sv̄t̄Z w̄M̄t̄q 1973  
w̄L̄b̄v̄t̄āi c̄ōw̄Z<sup>o</sup> GKwU e<sup>o</sup> e<sup>o</sup> v̄ m̄e<sup>o</sup> ūt̄K<sup>o</sup> Av̄t̄j v̄Pbv  
K̄t̄i b̄ | D̄<sup>o</sup> e<sup>o</sup> e<sup>o</sup> v̄ Pvj j̄ d̄t̄j R̄w̄g<sup>o</sup> v̄i v̄ t̄w̄k j̄ v̄f̄e<sup>o</sup> b̄  
nq |
- 26 | D̄ch̄y<sup>o</sup> e<sup>o</sup> e<sup>o</sup> v̄i mv̄t̄ t̄Zvgvi c̄w<sup>o</sup> eB̄t̄qi t̄Kvb̄ NUBvi  
mv̄ k<sup>o</sup> i t̄q̄t̄Q?  
(K) c̄w̄P̄mv̄j v̄ (L) w̄Pi<sup>o</sup> v̄q̄x  
(M) GKmv̄j v̄ (N) FY mw̄j kx AvBb
- 27 | D̄<sup>o</sup> ēt̄ v̄ ēt̄ t̄ Ab<sup>o</sup> Zg dj v̄dj t̄Kvb̄U?  
(K) Kl̄K̄t̄ i Dbw̄Z  
(L) w̄eŪK̄t̄ i t̄lgZv ēw̄x  
(M) R̄w̄g<sup>o</sup> v̄i t̄ i c̄f̄ve w̄e<sup>o</sup> v̄i  
(N) R̄w̄g<sup>o</sup> v̄i x c̄ō v̄ w̄ej w̄B
- 28 | ŌRj μxov̄ō Kv̄t̄ i ḡt̄a<sup>o</sup> c̄P̄w̄j Z w̄Qj ?  
(K) iv̄Rv̄t̄ i (L) c̄j<sup>o</sup> t̄ t̄ i  
(M) bvīt̄ i (N) ab̄t̄ i
- 29 | teš̄x w̄f̄ t̄j̄ i v̄ w̄ervi w̄bḡP̄y Ki Z -  
i. em̄v̄m Ki Z ii. e<sup>o</sup> em̄v̄-ew̄YR<sup>o</sup> Ki Z  
iii. w̄e<sup>o</sup> v̄ P̄P̄y Ki Z  
wb̄t̄Pi t̄Kvb̄U mwVK?  
(K) i (L) ii (M) i l ii (N) i l iii
- 30 | c̄P̄xb evsj vq ew̄Yt̄R<sup>o</sup> i Av<sup>o</sup> v̄b-c̄ō v̄b Pj Z -  
i. t̄j̄ c̄t̄ ii. Rj c̄t̄ iii. Av̄Kv̄k̄c̄t̄  
wb̄t̄Pi t̄Kvb̄U mwVK?  
(K) i (L) ii (M) i l ii (N) i, ii l iii



- 15 | iscj l w`bvRcjii AnAkisk `vb tKvb aitYi  
fvgj/c?  
(K) e-Øxc  
(L) cjj tKvY  
(M) cv`t`kxq cjj mgfvg  
(N) cveb mgfvg
- 16 | bvgvMØ Rj cØvZ tKvb b`xtZ mwo ntqtQ?  
(K) tWvevi b`x  
(L) Kj ivtWv b`x  
(M) tm>U j ti Y  
(N) mÜzb`
- ◆ wbtPi Abt`Q`wJ co Ges 17 l 18bs cØkie DEi  
`vl :  
mMi GKw`b cKii cvto `wotq wJ | Ggb mgq  
Abfve Kitjv Zvi gv\_v NjtQ | cKtiii cwbZ tPvL  
cotZB t`Lz tcj cKtiii cwb tXD tLj tQ |
- 17 | mMtiii Abfz NUbWU msNwJZ nq-  
i. 1991 mtj Zi t`  
ii. 1935 mtj wenvti  
iii. 1950 mtj Avmtg  
wbtPi tKvbWU mWVK?  
(K) i l ii (L) ii l iii  
(M) i l iii (N) i, ii l iii
- 18 | D³ NUbWU msNwJZ nI qvi KviY ntjv-  
(K) f-cvZ  
(L) b`xi tmZ  
(M) evqcvn  
(N) ewocvZ
- 19 | evqgÜtj Aw tRtbi cwi gvY KZ?  
(K) 78.02  
(L) 20.71  
(M) 0.80  
(N) 0.30
- 20 | Dcv`vbMZ `enkó Abymti c\_w\_exi evqgÜj tK KqW  
`#i fVM Kiv nq?  
(K) 4 (L) 5  
(M) 6 (N) 7
- 21 | evqgÜtj i metPtq wbtPi `t tKvbWU?  
(K) Gt`vgÜj  
(L) tgtmgÜj  
(M) ÷tUvgÜj  
(N) UtcvgÜj
- 22 | evqtZ kZKiv Rj xq evt`ui cwi gvY KZ?  
(K) 1 fvMi Kg (L) 1 fvM  
(M) 5 fvM (N) 10 fvM

- 23 | KZ mtj i ci b`xi cØvn bvUKxq fvte Ktg hvte?  
(K) 2030  
(L) 2040  
(M) 2050  
(N) 2060
- 24 | Avenvl qvi Dcv`vb nt`Q-  
i. evqj Pvc  
ii. evqj Av`Zv  
iii. evqycØvtni Ae`v  
wbtPi tKvbWU mWVK?  
(K) i l ii (L) ii l iii  
(M) i l iii (N) i, ii l iii
- 25 | th me Awfemx cpivq Zvt`i Drm `tj wdti Avtm  
Zvt`i Kx etj ?  
(K) cØvnx (L) DØv`  
(M) kiYv`p (N) `vqx
- 26 | 'Pull factors' ktai A\_ØKx?  
(K) AvKI Øgj K Kvi Y  
(L) weKI Øgj K Kvi Y  
(M) mvgwRK Kvi Y  
(N) Drm`tj i av`v
- 27 | RbmsL`v exUtbi cØKwZK cØveK tKvbWU?  
(K) f-cØwZ  
(L) LwbR mæú`  
(M) cwi enb  
(N) ms`wZ
- 28 | RbmsL`v exUtbi tKvbWU AcØKwZK cØveK?  
(K) LwbR  
(L) gwU  
(M) cwib  
(N) A\_ØwZK
- 29 | eZØvrb evsj vt`tki cØvb RvZxq mgm`v tKvbWU?  
(K) `pØZ  
(L) RbmsL`v  
(M) `wv`a  
(N) wek; DØvqb
- 30 | evsj vt`tki RbmsL`vtK Rbmæút` cwi YZ Ki tZ ntj  
`i Kvi -  
i. mi Kvi x Dt``M  
ii. bWmi K mPZbZv  
iii. wbi ¶Zv `txKi Y  
wbtPi tKvbWU mWVK?  
(K) i l ii (L) i l iii  
(M) ii l iii (N) i, ii l iii





11 |  $\sqrt{x^2 - 2} = 3$  mgxKi tYi mgvavb Kx?

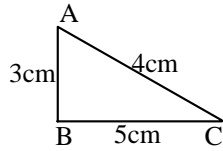
(K)  $-\sqrt{11}$

(L)  $\sqrt{11}$

(M)  $\pm\sqrt{11}$

(N) 11

12 |



$\angle BAC$  Gi gvb KZ?

(K)  $45^\circ$

(L)  $60^\circ$

(M)  $90^\circ$

(N)  $120^\circ$

13 | w fRi wZbuJ evui N t I qv vKtj tKvb t fRi tKvYx w fR AvKv m e?

(K) 3, 3, 4

(L) 3, 4, 4

(M) 3, 4, 5

(N) 3, 4, 6

14 | GKwJ w fRi KquJ D"PZv vK?

(K) 1 wJ

(L) 2 wJ

(M) 3 wJ

(N) 4 wJ

15 |  $40^\circ$  tKvYi m u i K tKvYi A t a R KZ?

(K)  $50^\circ$

(L)  $140^\circ$

(M)  $70^\circ$

(N)  $75^\circ$

16 | w fRi ga g v i q Z v i m u v Z w e j Z KZ Abc v Z w e f 3 K t i ?

(K) 1 : 3

(L) 2 : 3

(M) 3 : 2

(N) 2 : 1

17 | mgev u w fRi GKwJ emnt tKvYi gvb KZ?

(K)  $120^\circ$

(L)  $180^\circ$

(M)  $270^\circ$

(N)  $360^\circ$

18 | e j E i c w i w a t K v b w e j Z K q u J u k R A v K v h v q ?

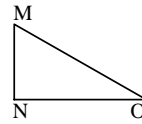
(K) 1

(L) 2

(M) 3

(N) 4

19 |



MNO w fRi w k i t t K v Y w b t P i t K v b u ?

(K)  $\angle M$

(L)  $\angle N$

(M)  $\angle O$

(N)  $\angle N$  i  $\angle O$

20 |  $\sin\left(\frac{25\lambda}{2} - \theta\right)$  tKvb P Z f M ?

(K) 1g

(L) 2q

(M) 3q

(N) 4\_

21 |  $\cos^2 \frac{\lambda}{3} - \sin^2 \frac{\lambda}{3} = KZ?$

(K)  $\frac{1}{4}$

(L)  $\frac{1}{2}$

(M)  $-\frac{1}{2}$

(N) 1

22 |  $\tan \frac{3\lambda}{4} = KZ?$

(K)  $\sqrt{3}$

(L)  $\frac{1}{\sqrt{3}}$

(M) -1

(N) 1

23 | m e e Z v i m t e P P g v b K Z ?

(K)  $-\infty$

(L) 0

(M) 1

(N)  $+\infty$

24 | GKwJ  $Q^\circ$  v w b t f t c 2 Avmvi m e b v K Z ?

(K) 1

(L)  $\frac{2}{3}$

(M)  $\frac{1}{2}$

(N)  $\frac{1}{6}$

25 | GKwJ  $Q^\circ$  v w b t f t c t g S i j K m s L v Avmvi m e b v K Z ?

(K)  $\frac{1}{3}$

(L)  $\frac{1}{2}$

(M)  $\frac{2}{3}$

(N) 1



- 12| Rj R AvMvQv `gtb tKvbU e`euZ nq?  
 (K) Pb  
 (L) dmUw b  
 (M) ti vUbb  
 (N) Kcvi mjj tdu
- 13| gvQI c`avb c`KwZK Lveri tKvbU?  
 (K) %Re mvi  
 (L) cwb  
 (M) `kevj  
 (N) dvBbtUvcvKUb
- 14| i vBtRmeqvg Kx?  
 (K) GK ai tbi e`vKtUwi qv  
 (L) GK ai tbi QTvK  
 (M) GK ai tbi `vbrvZxq Nvm  
 (N) GK ai tbi fvBi vm
- 15| Avj j Rb` ¶wZKi -  
 i. wbgæZvcgvTv  
 ii. tgNj v AvKvk  
 iii. Kqvkr`QbæAvenvI qv  
 wbtPi tKvbU mwVK?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 16| Av`k`cKti i cwbi Mfxi Zv nte-  
 i. 0.5 wguvi  
 ii. 1.6 wguvi  
 iii. 1.8 wguvi  
 wbtPi tKvbU mwVK?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 17| cKti mvtj vKmsktYi Rb` tKvb Dcv`vbwU  
 c`qvRb?  
 (K) tNvj vZj  
 (L) ZvcgvTv  
 (M) mh¶j vK  
 (N) Mfxi Zv
- 18| exR Drcv` tbi me¶gvU avc KZwU?  
 (K) 8  
 (L) 9  
 (M) 10  
 (N) 11
- ◆ wbtPi D`xcKwU cto 19 l 20 bs c`kæ DEi `vl :  
 AvRv`j Zvi cKti KPwi cvbv, tUvcvcbv l ¶w` cvbv  
 t`LtZ cvb| wZwb wKQz cvbv cKti t`tK mwi tq  
 td t j b|

- 19| AvRv` t j i cKti DwMc `tj v tKvb ai tbi Rj R DwMc ?  
 (K) tkl j v  
 (L) fimgvb  
 (M) wM¶bkxj  
 (N) wbgw%Z
- 20| AvRv` t j i cKti t`tK mwi tq tdj v DwMc `tj v `enkó`-  
 i. Giv AMfxi cKti Rtb¶  
 ii. Giv cwbtZ tftm `vtK  
 iii. Gt` i gj gwUtz AvUKv t b v `vtK bv  
 wbtPi tKvbU mwVK?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 21| Avgv` i t`tk Klb me¶bgæZvcgvTv wei v R Kti ?  
 (K) Rvbqvwi  
 (L) tde`qvwi  
 (M) gvP<sup>©</sup>  
 (N) Gwcvj
- 22| tKvb `tj v Liv mwn`ozMtgi RvZ?  
 (K) c`xc-tMŠie  
 (L) KvAb-AvKei  
 (M) mpx-KvAb  
 (N) tMŠie-AvKei
- 23| evsj vt`tk Zxe`Liv nq tKvb tRj vq?  
 (K) i scj  
 (L) w`bvRcj  
 (M) Kwóqv  
 (N) ewi kvj
- 24| t`wk gvQ tKvb mg tq wWg Qvto?  
 (K) Rvbqvwi -gvP<sup>©</sup>  
 (L) tg-Rj vB  
 (M) Gwcvj - Rb  
 (N) AvM ÷ -A t ±vei
- 25| Rj evqvcwi eZ¶bi Kvi tY-  
 i. gvQI c`Rbb evavMŠ -nt`Q  
 ii. gvQI wWg Kg wbw l <sup>3</sup> nt`Q  
 iii. tc tU wWg Gtj mvt\_ mvt\_ tQto w` t`Q  
 wbtPi tKvbU mwVK?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii

# tmÈ thvtdm&~g

Abj vBb gfwj tU ÷ — 2020 wL<sup>a</sup>

tkiY t 9g

wel q t wnmve weÁvb (eúvbePbx Afx¶v)

wel q tKwW		
1	4	6

mgq — 30 wgvbU

cYgvb — 30

bvg ..... tivj bs ..... kvLv .....

[ `be` : mieivnKZ eúvbePbx Afx¶vi DEi ctI cOkie µngK bafii wcixtZ cD È eYm¶j Z eEmgn nBtZ mWk/mteP Kó DEti i eEwU ej ctqU Kj g Øviv mæúY¶fi vU Ki tZ nte | cÚZw cOkie gvb-1 | cOkactI tKvb cKvi `wM / wPy t I qv hvte bv ]

- 1| wnmve weÁvb tK Kx bvtg AwfwnZ Kiv nq?  
 (K) wnmve e'e~v (L) Z\_ e'e~v  
 (M) wbi x¶v e'e~v (N) weei Yx e'e~v
- 2| wktmi Øviv e'emvq cÚZv tbi KwLZ djvdj ARB mæe?  
 (K) mæú` µtqi dtj (L) mWk wmvš~wtj  
 (M) e'q wqš¶Yi gva'tg (N) cY' µtqi Øviv
- 3| AvaybK wnmve weÁv tbi cÈZ R tK?  
 (K) Gj .wm. µcvi (L) G.WweB-Rbmb  
 (M) j Jv c'wml wj (N) Avi .Gb. KvU¶
- 4| cÚPxbKvtj gvbj wnmve ivLZ Kxfvte?  
 (K) LvZvq wj tL  
 (L) tWweU-tµwWU c×wZ tZ  
 (M) cv'ti ev ,nvq `wM I AvPo tKtU  
 (N) wewbgtqi gva'tg
- 5| tj bt` b mspvš~NUbv-  
 i. `k`gvb ntZ cvti  
 ii. A`k`gvb ntZ cvti  
 iii. KLbB `k`gvb bq  
 wbtPi tKvbU mWk?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- ◆ wbtPi DÍxcKwU cto 6, 7 l 8bs cOkie DEi `vl :  
 gwbi tUWvm<sup>®</sup>1 Rvbpwii 2018 Zwi tL 50000 UvKv  
 wbtq GKwU e'emvq 'ii' Ktib| wemqKZ 10,000  
 UvKvi ctY'i gta' 3000 UvKvi cY' tdiZ GtmtQ|  
 wZwb e'w<sup>3</sup>MZfvte GKwU `fj 2,000 UvKv Abj vb  
 w' tjb|
- 6| 50,000 UvKv wbtq e'emvq 'ii' Kivq wnmve  
 mgxKi tYi tKvb Dcv`v t b cfve co te?  
 (K) mæú t` (L) `vtq  
 (M) mæú` l `vtq (N) mæú` l gwij KvbvmtEj
- 7| 3000 UvKvi tj bt` b wUj Rb' gwbi tUWvm<sup>®</sup>th t bU  
 cÚZ Ki teb Zv ntj v-

- (K) tWweU t bU (L) tµwWU t bU  
 (M) cÚc` t bU (N) cÚ` q t bU
- 8| `fj 2000 UvKv Abj vb t` l qvq e'emvq cwi eZB  
 nte?  
 (K) mæú` Kgte  
 (L) gj ab Kgte  
 (M) mþvg evote  
 (N) e'emvq tKvb cfve co te bv
- 9| **Order** A\_¶Kx?  
 (K) di gvtqk (L) Av t` k  
 (M) wbt` R (N) BwZ
- 10| Avw` R Ae`vi cwi eZB ntj Kx nte?  
 (K) AePq (L) tj bt` b  
 (M) ¶wZ (N) j vf
- 11| mæú t` i AePq tKgb?  
 (K) `k`gvb (L) A`k`gvb  
 (M) AvsukK `k`gvb (N) AvsukK A`k`gvb
- 12| K'vktgtgv e'eúZ nq KLb?  
 (K) cY' tdi Z Avmtj (L) avti wemutqi t¶tI  
 (M) cY' tdi Z w' tj (N) bM` wemutq
- 13| Awd tmi Rb' AvmevecI µq Kiv ntjv 50000  
 UvKvi | GB NUbvi Øviv e'emvq t q i -  
 i. AvmevecI ewx tctqtQ  
 ii. bM` A\_¶wM tctqtQ  
 iii. `vqx mæú` ewx l Pj wZ mæú` nwm tctqtQ  
 wbtPi tKvbU mWk?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- ◆ wbtPi DÍxcKwU cto 14 l 15 bs cOkie DEi `vl :  
 Rbve AvmK 2017 mtj i Rvbpwii 1 Zwi tL 50,000  
 UvKv bM` , 80000 UvKvi AvmevecI , 30000 UvKvi  
 e'vsK e'vtj Y l 40,000 UvKvi FY wbtq e'emvq 'ii'  
 Ktib|

- 14 | Rbve Avmtdi gj atbi cwi gvY KZ?  
 (K) 1,50,000 UvKv  
 (L) 1,20,000 UvKv  
 (M) 2,00,000 UvKv  
 (N) 1,60,000 UvKv
- 15 | 1 Rvbqwi 2017 Zwi tL Zvi bM` At\_P cwi gvY KZ?  
 (K) 10000 UvKv (L) 80,000 UvKv  
 (M) 90,000 UvKv (N) 50,000 UvKv
- 16 | `Zi dv `wLj v cxiZ KZ mvtj Awe®vi Kiv nq?  
 (K) 1494 mvtj  
 (L) 1493 mvtj  
 (M) 1394 mvtj  
 (N) 1594 mvtj
- 17 | inmvtēi eig w`K tWueU I Wwb w`K tμwU | GwU inmve weAvtbi GKwU-  
 (K) i xiZ  
 (L) `eikó`  
 (M) mjeav  
 (N) c0qvRbxqZv
- 18 | inmve weAvtbi me tPtq `qsmáúY inmve i qY cxiZ tKvbwU?  
 (K) GKZi dv `wLj v cxiZ  
 (L) `Zi dv `wLj v cxiZ  
 (M) ugk^cxiZ  
 (N) %BZ inmve cxiZ
- 19 | máú` i I ci gwij tKi `we tK Kx etj ?  
 (K) máú`  
 (L) Avq  
 (M) `vq  
 (N) gwij KvbvmEj
- 20 | tj bt` tbi `wU mEY Kx?  
 (K) t` br` vi - cvl br` vi  
 (L) gwij K-kigK  
 (M) tWueU- tμwU  
 (N) gwij K-cvl br` vi
- 21 | inmvtēi 'T' Q tK tgvU Kj vg KqW?  
 (K) 6wU (L) 7wU  
 (M) 8wU (N) 10wU
- 22 | t` br` vi tKvb tkwYi inmve?  
 (K) máú`  
 (L) `vq  
 (M) gwij KvmEj  
 (N) ti wfwbD
- 23 | c0Zvtbi Aj m A\_®v iv tkqvi , FYcÎ ev eU μq Ki t j , Zv tKvb inmvtēi wj wce x nte?

- (K) gj ab (L) D tEj b  
 (M) we w t q v M (N) FY
- 24 | GKb tkwYf³ inmve , t j v n t j v-  
 i. teZb  
 ii. we μ q  
 iii. we Avcb  
 w b t P i t K v b w m w K ?  
 (K) i I ii (L) i I iii  
 (M) ii I iii (N) i, ii I iii
- ◇ w b t P i D i x c k w U c t o 25 I 26 b s c 0 k e D E i ` v l :  
 2019 mvtj i 1 Rvbqwi w g. cvŠ` tivRwi I e`vsK t` tK 100,000 UvKv FY MhY K t i b Ges t d e \* q w i g v f m 10,000 UvKv F t Y i w K w - c w i t k v a K t i b |
- 25 | 10,000 UvKv FY cwi t kv tai d t j w b t P i t K v b w U N t U ?  
 (K) Avq nrm  
 (L) e`q nrm  
 (M) `vq nrm  
 (N) gwij Kvbv`Ej nrm
- 26 | FY MhY Kiv cvŠ` tivRwi I Gi e`emvq-  
 i. máú` evote 1,00,000 UvKv  
 ii. `vq ep x cvte 1,00,000 UvKv  
 iii. Avq evote 90,000 UvKv  
 w b t P i t K v b w U m w K ?  
 (K) i I ii (L) ii I iii  
 (M) i I iii (N) i, ii I iii
- 27 | 0 cvl br` vi 0 tKvb tkwYi inmve?  
 (K) `vq  
 (L) máú`  
 (M) gwij KvbvmEj  
 (N) Avq
- 28 | inmvtēi AvaybK dg®ev Pj gvb Q tK Ni \_v t K-  
 (K) 4wU  
 (L) 7wU  
 (M) 8wU  
 (N) 10wU
- 29 | ÷`vcj vi I K`vj K t j U t i i R b ` t K v b inmve tLj v nq?  
 (K) Awdm mi Avg  
 (L) gwbnwi  
 (M) Awdm mvcvBR  
 (N) hšcwZ
- 30 | gwij K KZK D t E j b Kiv n t j inmve mgxKi t Y i I ci Kx c f v e c o t e ?  
 (K) E nrm I A nrm  
 (L) A I E ep x  
 (M) A nrm I L ep x  
 (N) E ep x A nrm



- 13 | GKRb Df`v`vi c`avb`Y KqulU?  
 (K) 14ul  
 (L) 18ul  
 (M) 20ul  
 (N) 22ul
- 14 | th e`emvq Sntk tewk ZvtZ Kx we`gvb?  
 (K) gpvdv Kg  
 (L) gpvdv tewk  
 (M) mnR MVb  
 (N) e`q tewk
- 15 | Df`v`vi Kx mjo Kti?  
 (K) e`emvq`wqZj  
 (L) gpvdv ep`xi Dcvq  
 (M) Kgms`vb  
 (N) wkt`i i KuPvgj
- ◆ wtpi Df`xcKuU cto 16 l 17bs c`k`e DEi`vl :  
 wg. wknve Zvi Pvkixi cvkvcnk wR emotZ ckt`i  
 gvQ Pvl Kivi wmxs`tbb| wKs` tewk mgq t`lqv  
 m`e bq etj, wZwb G e`emvqU Zvi tQvU fvB m`  
 GBP.Gm.wm cvm Kiv gvgt`bi wku n`vs` Kti b| wg.  
 wknve Zvi Pvkii` t`j i cvtk bZb Kti GKU  
 tokbwi t`vKv c`Z`v Ktib Ges GtZ wZwb mdj  
 nb|
- 16 | Df`xcK e`emvq cwieZ`b wg. wknvtei Df`v`vi  
 tKvb`YwU j`Yxq?  
 (K) bgbxqZv  
 (L) Sntk Mh`Yi gvbimKZv  
 (M) mRbkxj Zv  
 (N) `xrbt`PZv gtbvfe
- 17 | Df`xcK wg. wknvetK KgRv`U t`tk-  
 i. AvZ`Kgms`vb mjo nq  
 ii. bZb Df`v`vi mjo nq  
 iii. Pvkii i Dci w`f`kxj Zv nwm cvq  
 wtpi tKvbU mWk?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 18 | GKRb Df`v`vi c`avb`Y tKvbU?  
 (K) Kg`Df`v`M  
 (L) e`emvq cwii Pvj bv  
 (M) mste`bkxj Zv  
 (N) Sntk wtpZ mrvqZv
- 19 | wki wece`NtU tKvb kZv`x?  
 (K) mB`k kZv`xZ (L) Aov`k kZv`xZ  
 (M) Ebiesk kZv`xZ (N) wesk kZv`xZ
- 20 | SntkMZ c`ZeUKZv`i Kti tKvbU?  
 (K) cwienb  
 (L) A`  
 (M) wegv

- (N) `vgRvZKiY
- 21 | AvZ`Kgms`v`bi Dchj` t`T wbe`Ptb wetePbv Kitz  
 nq-  
 i. mWk cY`  
 ii. gpvdv w`oqZv  
 iii. ctY`i Pwn`v  
 wtpi tKvbU mWk?  
 (K) i l ii (L) i l iii  
 (M) ii l iii (N) i, ii l iii
- 22 | evsj v`tk cwi msL`vb Kti vi c`Z`te`b 2010 Abjvqx  
 evsj v`tk tgvU Kgms`v`bi t`v`ki msL`v n`Q?  
 (K) 6 j` (L) 16 j`  
 (M) 26 j` (N) 36 j`
- 23 | Avgv`i t`tk gR`i Kg nl qvi Kvi Y wK?  
 (K) AwaK RbmsL`v (L) Kg Kgms`v`vb  
 (M) AwaK A` (N) Kg c`k`Y
- 24 | Kgms`v`bi c`avbZ KqulU fvM fvM Kiv n`q`Q?  
 (K) cuP (L) Pvi  
 (M) wZb (N) `B
- 25 | evsj v`tk A`wZK wi wFD-2011 Gi cwi msL`vb  
 Abjvqx wki LvZi Ae`vb KZ?  
 (K) 20% (L) 30%  
 (M) 40% (N) 50%
- 26 | AvZ`Kgms`v`bi Rb` KgR` eo gj ab Kx?  
 (K) wR`KuPvgj (L) wtpRi mAq  
 (M) wtpRi`YgZv (N) wR`h`scwZ
- ◆ wtpi Df`xcKuU cto 27 l 28bs c`k`e DEi`vl :  
 Rbve iwb Abvm`cvm Kivi ci b`Evym t`tk c`k`Y  
 Ges evevi wku t`tk wKoy UvKv wtpq GKU  
 Kiv`DUvi c`k`Y tK``Lj tj b| c`g w`tk wKoy`wZ  
 ntj l cieZ`Z tj vKmvb wgwU`q Av`-Av`-mdj  
 ntj b| wZwb GLb A`wZKfvte mvej`x|
- 27 | Rbve iwb e`emvqU tKvb ait`Yi e`emvq?  
 (K) Y`e`emvq (L) gvSwi e`emvq  
 (M) AvZ`Kgms`v`vb (N) enr e`emvq
- 28 | Rbve iwb e`emvq mdj Zvi Kvi Y-  
 (K) ch`B gj ab (L) `Y Rbej  
 (M) gpvdv j`v`fi Zxe`AvKv`Lv  
 (N) c`k`Y Ygj K Avb`K KvR j`v`v`v
- 29 | evsj v`tk tgvU k`k`i KZ kZvsk h`k h`Zx?  
 (K) 1/2 (L) 1/3  
 (M) 1/4 (N) 1/5
- 30 | tKvb c`Z`v KUi wkt`i i KvRi c`k`Y w`tq`v`K?  
 (K) b`v`m  
 (L) h`e c`k`Y tK``  
 (M) evsj v`tk c`j`-Db`q`b tew`  
 (N) gw`j v`w`l`qK g`y`j`q



# tmÈ thv#mdm& - g

## Abj vBb g#Wj tU ÷ — 2020 mL<sup>3</sup>

tkiY t 9g

weiq t wdb'vY l e'vsuKs (eũmbePbx Afx¶v)

weiq tKw		
1	5	2

mgq — 30 wgwbu

cYgub — 30

bvg ..... tivj bs ..... kvLv .....

[ `be : mieivnKZ eũmbePbx Afx¶vi DEiciT cõkie µwgK bæti i weci#Z cõ È eyf#ij Z eEmgn nBtZ mWk/mteP Kó DEiti i eEũW ej ctqU Kj g Øriv m=úY©fiw Ki#Z nte| cõZũW cõkie gub-1| cõkæT tKvb cKvi `wM / wPy † l qv hte bv | ]

- |  |  |
|--|--|
| <p>1  we`vj q tKvb ai#Yi cõZõvb?<br/>                 (K) mvavi Y<br/>                 (L) mvgwRK<br/>                 (M) we#bv`bgj K<br/>                 (N) cwi ewi K</p> <p>2  cwi ev#i i A_#qb cõµqvq tKvbũW Abcyw`Z?<br/>                 (K) Drm wba#i Y<br/>                 (L) Znwej msMh<br/>                 (M) g#v#v ARB<br/>                 (N) e'envi cõµqv</p> <p>3  tKvb ai#Yi LiP wbe#ni Rb` `xN©tgqw` FY MhY<br/>                 Kiv nq?<br/>                 (K) Pj wZ<br/>                 (L) Kvi Lvbv<br/>                 (M) `vqx<br/>                 (N) Drcv`b</p> <p>4  Znwej weib#qvMi gj D#i k` tKvbũW?<br/>                 (K) Drcv`b<br/>                 (L) eEb<br/>                 (M) g#v#v ARB<br/>                 (N) A_#qb</p> <p>5  AvaybK A_#q#bi cõvb `enkõ` tKvbũW?<br/>                 (K) weµq ewx<br/>                 (L) e`q nwm<br/>                 (M) weib#qvM<br/>                 (N) gj evRv#i i AMhwaKvi</p> <p>6  evsj v#`tk tKvb ai#Yi ev#RU cwi j ¶Z nq?<br/>                 (K) cwi Kwí Z ev#RU<br/>                 (L) D×È ev#RU<br/>                 (M) NvũwZ ev#RU<br/>                 (N) Acwi Kwí Z ev#RU</p> <p>7  bM` tenk i vL#j Kx nq?<br/>                 (K) g#v#v w`i _#K<br/>                 (L) g#v#v te#o hvq<br/>                 (M) g#v#v Ktg hvq<br/>                 (N) g#v#v mte#P nq</p> <p>8  mi Kwí A_#q#b cõ#g tKvbũW wba#i Y Kiv nq?</p> | <p>(K) Av#qi cwi gvY<br/>                 (L) e`#qi cwi gvY<br/>                 (M) g#v#v cwi gvY<br/>                 (N) m=ú#` i cwi gvY</p> <p>9  Pj wZ e`q wbe#ni Rb` tKvb Drm t_#K A_#msMh<br/>                 Kiv nq?<br/>                 (K) Pj wZ tgqw`<br/>                 (L) `f tgqw`<br/>                 (M) `xN©tgqw`<br/>                 (N) ga` tgqw`</p> <p>10  cõZõv#bi Af`šixY Znwej i Drm#K Kq fv#M fvM<br/>                 Kiv hvq?<br/>                 (K) 2<br/>                 (L) 3<br/>                 (M) 4<br/>                 (N) 5</p> <p>11  cõc` wej i tgqv` mvavi YZ KZ gvm?<br/>                 (K) 3 gvm<br/>                 (L) 6 gvm<br/>                 (M) 9 gvm<br/>                 (N) 12 gvm</p> <p>12  tK tKv=úv#bi j f`vsk cvq?<br/>                 (K) cwi Pvj K<br/>                 (L) e#Üi gwj K<br/>                 (M) wW#e#vi gwj K<br/>                 (N) t#qvi gwj K</p> <p>13  we#µZvi Kv#Q weib#gq wej Kx?<br/>                 (K) wW#e#vi<br/>                 (L) eÜ<br/>                 (M) cõc` wej<br/>                 (N) cõ`q wej</p> <p>14  tKvbũW tkqv#i i weKí?<br/>                 (K) FY<br/>                 (L) FYc#<br/>                 (M) wj wRs<br/>                 (N) ewYwR`K c#</p> |
|--|--|

- 15 | `xN`tgqw` ewn` Znwetj i Drm tKvbiU?  
 (K) wj wRs  
 (L) c0` q wej  
 (M) ¶jz` FY  
 (N) M0gxY gnvRb
- 16 | `xN`tgqw` FY tbqv nq tKb?  
 (K) `vqx wewbtqvMi Rb`  
 (L) Pj wZ LiP wqUvfbvi Rb`  
 (M) e`emvftqi ` w0K LiP wqUvfbvi Rb`  
 (N) KuPvgvj µtqi Rb`
- 17 | GKgwj Klvv e`emvq Znwetj i c0vb Drm tKvbiU?  
 (K) FYcI  
 (L) e`vsK FY  
 (M) M0g` gnvRb  
 (N) gwj tKi w0R`^Znwj
- 18 | j f`vsk c0vfbvi mvf` tKv`úwbi tKvbiU RwoZ?  
 (K) j vF-tj vKmvb  
 (L) w0qg Kvbpb  
 (M) mpvg  
 (N) tKv`úwbi f`iel`r
- 19 | Znwj msM0ni Rbw0q Drm tKvbiU?  
 (K) wewbgq wej evAv KiY  
 (L) c0c` wej evAvKiY  
 (M) e`vsK FY  
 (N) gwj tKi gj ab
- 20 | KZ mvfj AvS`RwZK gj t Znwj c0Zw0Z nq?  
 (K) 1845  
 (L) 1855  
 (M) 1945  
 (N) 1955
- 21 | FY M0tYi AvtM Kx hvPvB Ki tZ nq?  
 (K) At`P mgqgj`  
 (L) gj ab e`q  
 (M) m`te` e`q  
 (N) cw tKva ¶lgZv
- 22 | mY Avmj tK mY` i nvi 0viv f`vM Ki tZ Kx cvl qv hvq?  
 (K) mY  
 (L) f`iel`r gj`  
 (M) eZ0yb gj`  
 (N) tgqv`

- 23 | e0ti i Pµewxi msL`vK tKvb c0ZxK 0viv c0KvK Kiv nq?  
 (K) m (L) i  
 (M) n (N) r
- 24 | e`vsK UvKv ivL`tj Kx tmi wFwE`Z Pµewx nq?  
 (K) mvBwvK  
 (L) gwvK  
 (M) ewl R  
 (N) cw¶jK
- 25 | mY` i nvi 15% ntj 3 e0i cti i 500 UvKvi eZ0yb gj` KZ?  
 (K) 328.76 UvKv  
 (L) 329.73 UvKv  
 (M) 331.94 UvKv  
 (N) 339.39 UvKv
- 26 | w0tPi tKvbiU w0tKl wqZ e`vsK?  
 (K) tmvbvj x e`vsK  
 (L) AM0x e`vsK  
 (M) c0Bg  
 (N) Kwl e`vsK
- 27 | e`vsK i KvwftgwFwEK tKwY wefvM KqvU?  
 (K) 5  
 (L) 7  
 (M) 8  
 (N) 9
- 28 | tKvb t¶tI e`vsK w0tKl vqfbvi bwvZ M0Y Kti `vK?  
 (K) t0vU Bmj  
 (L) FY c0vb  
 (M) M0nK tmev  
 (N) AvgvbZ M0Y
- 29 | gy`i w0K i wntmte KvR Kti tKvbiU?  
 (K) wewbgq wej  
 (L) tPK  
 (M) 0wU  
 (N) e`vsK W0dU
- 30 | tPBb e`vsK i gj` D`i k` Kx?  
 (K) g0v0v AR0  
 (L) mvgwvRK Db0pb  
 (M) cwi `0wi K DbwZ mvab  
 (N) tmev `vm