

,u0 ,Q0 ,l0 ,e0 Pulses-Sole ;k tukUrxr vjgj cht forj.k lphA

ftyk & xkMMk] i[k.M&ckvkjhtkj

o"k & 2019&20

Ø0	fd lku dk uke	firk@ifr dk uke	xle	ipk;r	i[k.M	vjgj cht dh ek=k fdxk e	jdok ,dM	t0 u0	nkx u0	vk/kj u0	elckby u0	vh;fDr
1	clrk ckLdh	cty ckLdh	jktkik[kj	nohij	ckvkjhtkj	4		14	2	568407914563		
2	yky ckLdh	jko.k ckLdh	jktkik[kj	nohij	ckvkjhtkj	4		17	2	276821340613		
3	lj'k pUn gklnk	nf[k;k gklnk	jktkik[kj	nohij	ckvkjhtkj	4		28	49			
4	egUn ckLdh	e'kh ckLdh	jktkik[kj	nohij	ckvkjhtkj	4		14	2	720242576103	8969727019	
5	/kuhje fe/kk	ckcjke fe/kk	jktkik[kj	nohij	ckvkjhtkj	4		14	150	814450897289		
6	iyVu ckLdh	j?k ckLdh	jktkik[kj	nohij	ckvkjhtkj	4		29		378847605629		
7	ldy igkfM;k	tkjxk igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4		15	162	484517932664		
8	txnh'k lkg	me'k i0 lkg	jktkik[kj	nohij	ckvkjhtkj	4		1	140	912113027639	6200042219	
9	Qypn ckLdh	ctu ckLdh	jktkik[kj	nohij	ckvkjhtkj	4		36		437640669531	9798760827	
10	b'oj ckLdh	y[khjke ckLdh	jktkik[kj	nohij	ckvkjhtkj	4		36		560819279204		
11	tkeu ckLdh	ctu ckLdh	jktkik[kj	nohij	ckvkjhtkj	4		8	2,3,4,5	850550779177	6203628110	
12	fojUn igkfM;k	eMjk pkUg igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4		2	86	802227168157		
13	ldjkr igkfM;k	b'oj ljt k igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4		2	86	326422412400		
14	jkch igkfMu	,rokjh igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4		2	87	643416516727		
15	jkt igkfM;k	b'oj ljt k igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4		2	91	246718116927		
16	ljth igkfMu	fojok igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4		2		934056677002		
17	/keh igkfMu	feYVu eyrk	jktkik[kj	nohij	ckvkjhtkj	4		52	148	345836547115		
18	elh igkfMu	ekly igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4		37		725423913212		
19	enu eyrk	lkfu;k eyrk	jktkik[kj	nohij	ckvkjhtkj	4				433909722316		
20	jkb igkfM;k	e'kk igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4				782901744225		
21	pku dFM;k	nok igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4		40		243830540603		
22	: ik igkfM;k	cd: pku igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4		3		283762401270		
23	ckcth ckLdh	;n ckLdh	jktkik[kj	nohij	ckvkjhtkj	4			168	703623821022		
24	ljUn igkfM;k	pkUn igkfM;k	jktkik[kj	nohij	ckvkjhtkj	4		20	86	479445769925		

25	l j t h i g k f M u	efy ; k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	6		2	144	373756538210		
26	l u h r k i g k f M u	l j t k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		2	172	875077476265		
27	/ k e h i g k f M u	n o k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		2		223602459110		
28	/ k e h i g k f M u	x f g ; k i g k f M u	j k t k i k [k j	n o h i j	c k v k j h t k j	4				689385769205		
29	i k y l i g k f M ; k	l ; k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	6		11	305	547408909987		
30	l j t h i g k f M u	f p i j h l ; k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		2	56			
31	e u h i g k f M ; k	l ; k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	6		8		448960106697		
32	l d j e u h i g k f M u	e l h i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		2		575760284717	9931401022	
33	v c h u l k j u	M k e u l k j u	j k t k i k [k j	n o h i j	c k v k j h t k j	4		16	26	235051028351		
34	' k k f r e k y r k	n o k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		2				
35	l j t h i g k f M u	d f y ; k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		2		373756558210		
36	y E i k e l k i g k f M u	x k x i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	6		23		410092148965		
37	j k e h i g k f M u	e l k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		26		906689875460		
38	e k x y k e k y r k	x k x i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		52		815323372393		
39	l t ; e k y r k	: i k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		30		712155540754	7739223820	
40	/ k e l n i g k f M ; k	e l k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	6		5	395	683749120935	9798317902	
41	e l h i g k f M u	e l k i g k f M ; k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		5	395	764198652380		
42	e d ' k f e / k k	c k c y k y f e / k k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		55	107	930423581667	7488288659	
43	r k y k c k L d h	p n j c k L d h	j k t k i k [k j	n o h i j	c k v k j h t k j	4		7	105	574951238557		
44	j k t u e e	e g h u e e	j k t k i k [k j	n o h i j	c k v k j h t k j	6		6	175	679287500852	6206138658	
45	l > y k c k L d h	p j . k c k L d h	j k t k i k [k j	n o h i j	c k v k j h t k j	4		11		543917081000		
46	e d ' k c k L d h	e j k x c k L d h	j k t k i k [k j	n o h i j	c k v k j h t k j	4				996609887368	8102045290	
47	f l e k u V M	p n j V M	j k t k i k [k j	n o h i j	c k v k j h t k j	6		31		627172987788		
48	c k c y k y c k L d h	l j ; c k L d h	j k t k i k [k j	n o h i j	c k v k j h t k j	4						
49	/ k u h j k e f e / k k	c k c y k y f e / k k	j k t k i k [k j	n o h i j	c k v k j h t k j	4		14	153, 158			
50	e l k i g k f M ; k	j k e k i g k f M ; k	y h y k k k h B k	n o h i j	c k v k j h t k j	6		15		607253753849		
51	l j t k i g k f M ; k	c k / k k / k e k i g k f M ; k	y h y k k k h B k	n o h i j	c k v k j h t k j	4		2		827691057407		
52	l k e h i g k f M u	l j t k i g k f M ; k	y h y k k k h B k	n o h i j	c k v k j h t k j	4		15		989278422691		
53	v ' k k d e k y r k	e l k i g k f M ; k	y h y k k k h B k	n o h i j	c k v k j h t k j	6		4		411606240824		
54	l D y k i g k f M ; k	y x M k e l k i g k f M ; k	y h y k k k h B k	n o h i j	c k v k j h t k j	4		5		849906773601		
55	/ k e h i g k f M u	e > y k d f y ; k i g k f M ; k	y h y k k k h B k	n o h i j	c k v k j h t k j	4		10		408366478806		

56	xix igkFM;k	cdM el k	yhykHhBk	nohij	ckvkjhtkj	4		4		451289524051		
57	xkxh igkFMu	el k igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		4		277725984130		
58	ex: igkFM;k	ekdjM;k igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4						
59	pkn igkFM;k	/kek igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		6		222795442121		
60	ie'oj ykgkj	Qypn ykgkj	yhykHhBk	nohij	ckvkjhtkj	4		38		434415831713		
61	fpfM;k igkFM;k	fpijk igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		6		955473912749		
62	c/kok igkFM;k	fpijk igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		6		658659750414		
63	dih igkFM;k	ljtk igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		4		332914106780		
64	el k igkFM;k	dkfy;k igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		12		403817552167		
65	noh igkFMu	lUnjk igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		2		895405990284		
66	eg'k ekyrk	ftUnk igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		4		616856191646		
67	ljtk igkFM;k	MkEck igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		12		314559522256		
68	cch igkFMu	eukt igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		4		458796260630		
69	ljth igkFMu	jkek igkFM;k	yhykHhBk	nohij	ckvkjhtkj	4		2		352874647432		
70	lUnjk igkFM;k	gfM;k igkFM;k	noukij	nohij	ckvkjhtkj	4		7	98	580775753193	9572335591	
71	c/kuh igkFMu	ljtk igkFM;k	noukij	nohij	ckvkjhtkj	4		27	32	664211496324		
72	ljtk igkFM;k	lkek; igkFM;k	noukij	nohij	ckvkjhtkj	4		17	7	634496947746		
73	eg'oj ekyrk	tcjk igkFM;k	noukij	nohij	ckvkjhtkj	4		8	211	745422878782	6206892046	
74	ehuk igkFMu	ckMk igkFM;k	noukij	nohij	ckvkjhtkj	4		8	158	466154407570		
75	Qh'khyk ekyrk	tx'oj ekyrk	noukij	nohij	ckvkjhtkj	4		18	21	258114014673		
76	,fytkcFk ekyrk	dy'oj ekyrk	noukij	nohij	ckvkjhtkj	4		19	22	941909315277		
77	pknk igkFM;k	lUnjk igkFM;k	noukij	nohij	ckvkjhtkj	4		19	105	713994118696		
78	ly ekyrk	ljUn ekyrk	noukij	nohij	ckvkjhtkj	4		17	173	799003159233		
79	lkykeh ekyrk	efrekl ekyrk	noukij	nohij	ckvkjhtkj	4		16	11	836333685759		
80	exyh igkFMu	ljtk igkFM;k	noukij	nohij	ckvkjhtkj	4		17	40	809617333567		
81	noh igkFMu	,rokjh igkFM;k	noukij	nohij	ckvkjhtkj	4		11	181	357112807689		
82	tkgu ekyrk	fpijk pUn igkFM;k	noukij	nohij	ckvkjhtkj	4		18	26	578225470006		
83	pknh igkFMu	fpijh pUn igkFM;k	noukij	nohij	ckvkjhtkj	4		18	177	274873958515		
84	tcjh igkFMu	ljtk igkFM;k	noukij	nohij	ckvkjhtkj	4		18	177	319726994916		
85	el k igkFM;k	/kek igkFM;k	noukij	nohij	ckvkjhtkj	4		18	177	288229053045		
86	feFky'k ekyrk	el k ekyrk	noukij	nohij	ckvkjhtkj	6		18	26	881755159618		

87	c/kuh igkfMu	xfy;k igkfM;k	noukij	nohij	ckvkjhtkj	4		11	39	796279888664		
88	MfoM ekyrk	xfy;k igkfM;k	noukij	nohij	ckvkjhtkj	6		11	39	534787485633		
89	ldeuh ekyrk	/lejkt ekyrk	noukij	nohij	ckvkjhtkj	6		17	16	536399515571		
90	dfy;k igkfM;k	nok igkfM;k	noukij	nohij	ckvkjhtkj	6				647741487310		
91	/kek igkfM;k	elk igkfM;k	noukij	nohij	ckvkjhtkj	4		19	105	249915362669		
92	jkt "k igkfM;k	ccy igkfM;k	noukij	nohij	ckvkjhtkj	6		19	105	512933855478		
93	pknh igkfMu	Lo0 ljt k igkfM;k	noukij	nohij	ckvkjhtkj	4		17	32	552451998376		
dy						400						