MENTAL ABILITY

&

COMPUTER SCIENCE WORK BOOK

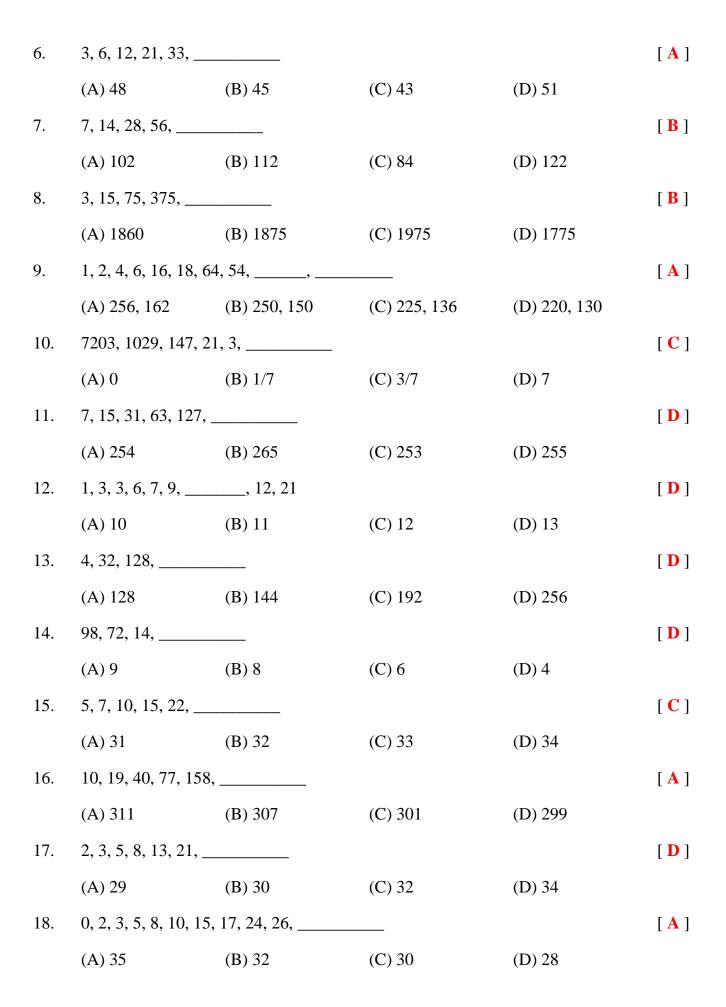
VERBAL REASONING

CHAPTER - 1

NUMBER SERIES

Direction (1-30): In the following questions, a series of numbers is given with a particular logic. Find the number which can continue the series with same logic.

1.	2, 7, 9, 16,				[B]
	(A) 24	(B) 25	(C) 27	(D) 29	
2.	54, 47, 40, 33,				[C]
	(A) 24	(B) 25	(C) 26	(D) 28	
3.	5, 12, 18, 23,				[A]
	(A) 27	(B) 24	(C) 25	(D) 29	
4.	4, 12, 48, 240,				[A]
	(A) 1440	(B) 1480	(C) 1360	(D) None of these	
5.	3, 7, 10, 17, 27,				[D]
	(A) 30	(B) 54	(C) 37	(D) 44	



19.	1317, 1923, 2931,				[B]
	(A) 3335	(B) 3741	(C) 3941	(D) 3337	
20.	5, 25, 61, 113, 181	3335 (B) 3741 (C) 3941 (D) 3337 5, 61, 113, 181,			
	(A) 266	(B) 250	(C) 265	(D) 300	
21.	9, 15, 23, 33,				[D]
	(A) 44	(B) 36	(C) 38	(D) 45	
22.	12, 8, 14, 6, 16,				[D]
	(A) 18	(B) 32	(C) 5	(D) 4	
20. 5, 25, 61, 113, 181,	[A]				
	(A) 36	(B) 60	(C) 58	(D) 60	
24.	68, 81, 96,	, 132			[D]
	(A) 105	(B) 110	(C) 130	(D) 113	
25.	111, 115, 119, 123	3,			[C]
	(A) 129	(B) 128	(C) 127	(D) 125	
26.	7, 14, 32, 60, 134,	[C] (B) 250 (C) 265 (D) 300 [B] 36 (C) 38 (D) 45 [B] 32 (C) 5 (D) 4 [A] (B) 60 (C) 58 (D) 60 [A] (B) 110 (C) 130 (D) 113 [C] (B) 128 (C) 127 (D) 125 [B] 128 (C) 127 (D) 125 [B] 1732819 (C) 1742451 (D) 1732319 [B] (B) 8373 (C) 8375 (D) 8379 [B] (B) 50 (C) 51 (D) 52			
	(A) 169	(B) 176	(C) 182	(D) 186	
(A) 3335 (B) 3741 (C) 3941 (D) 3337 20. 5, 25, 61, 113, 181,	[D]				
	(A) 1732119	(B) 1732819	(C) 1742451	(D) 1732319	
28.	1, 5, 20, 107, 760,				[B]
	(A) 8360	(B) 8373	(C) 8375	(D) 8379	
29.	2, 2, 5, 13, 28,				[D]
	(A) 49	(B) 50	(C) 51	(D) 52	
30.	2, 7, 27, 107, 427,				[B]
	(A) 1262	(B) 1707	(C) 4027	(D) 4227	

LETTER SERIES

Direction (1-10): In the following questions, a series of letters/letter group are given with a particular logic. Find the letter / letter group which can continue the series with same logic.

1.	AZ, BY, DW, GI	·,			[A]			
	(A) KP	(B) KQ	(C) JQ	(D) JP				
2.	BH, DK, FN, HQ	,			[C]			
	(A) IS	(B) IT	(C) JT	(D) JS				
3.	SHEL TERS, SH	SHEL TERS, SHEL TER, HEL TER, HEL TE, EL TE, ELT,						
	(A) EL	(B) LT	(C) ET	(D) ELT				
4.	CX, EU, HS, JP, MN,							
	(A) PL	(B) OK	(C) PK	(D) OL				
5.	HIJ, IJK, JKL, K	LM,			[B]			
	(A) LMO	(B) LMN	(C) MNO	(D) MNO				
6.	Z, W, T, Q, N,				[C]			
	(A) M	(B) L	(C) K	(D) J				
5. HI. (A) 6. Z, (A) 7. Q, (A)	Q, S, U, W,				[B]			
	(A) X	(B) Y	(C) Z	(D) A				
8.	AHO, BIP, CJQ,				[A]			
	(A) DKR	(B) DLR	(C) EKR	(D) DKS				
9.	AZYB, CXVE, F	URI,			[C]			
	(A) KQPL	(B) JRNM	(C) JQMN	(D) ISPM				
10.	U, O, I, E,				[A]			
	(A) A	(B) B	(C) C	(D) Z				

Direction (11-15): A pyramid of letters is given below. Study the pyramid and select the correct alternative to fill in the missing term.

						A						
					N	M	В		_			
				Y	X	О	L	C				
			Н	G	Z	W	P	K	D			
		О	N	I	F	Α	V	Q	J	Е		
	T	S	P	M	J	Е	В	U	R	I	F	
W	V	U	R	Q	L	K	D	С	T	S	Н	G

11.	HNPRQ, GIMQL	, ZFJLK,, I	PVBDC	-	[B]
	(A) QLKDC	(B) WAEKD	(C) WPVBD	(D) IFAVQ	
12.	FHSIE, ISTRJ, R	ГСUQ, UCDBV,			[C]
	(A) JLKDC	(B) JQVA	(C) BDKEA	(D) BDCTS	
13.	TGIM, LOXY, ZI			[D]	
	(A) CUQK	(B) JQVA	(C) PWZG	(D) KPWZ	
14.	GYXOW, ZXOLI	P, FZWPV,			[A]
	(A) AWPKQ	(B) PVQIE	(C) KQUCT	(D) EBURI	
15.	AMONB, YGIHZ	·,			[C]
	(A) LPVBD	(B) FAVQJ	(C) OSUTP	(D) LPVQJ	

Direction (16-25): In each of the following letter series, some of the letters are missing which are given in that order as one of the alternative below it. Choose the correct alternative:

16.	abbbb	_abbabba			[B]
	(A) bababa	(B) bbabbb	(C) ababaa	(D) aaaabb	
17.	b_ccacca_ba_bl	bcbca			[A]
	(A) baabc	(B) abaaa	(C) acbca	(D) bacab	
18.	accaccca	accccaaa			[B]
	(A) acca	(B) caaa	(C) ccaa	(D) caac	

19.	bccaaba_	cca			[A]
	(A) abcbb	(B) bbbcc	(C) bacba	(D) abbcc	
20.	lmkalck	almc			[D]
	(A) almk	(B) alck	(C) akcl	(D) acmk	
21.	ab c a b b t	С			[A]
	(A) bbca	(B) abab	(C) bcbc	(D) cabc	
22.	lmn _nopn _ pqr _ p _ rs _				
	(A) noprt	(B) mooqt	(C) nooqt	(D) ostsr	
23.	bc _ b _ c _ b _ ccb)			[A]
	(A) cbcb	(B) bbcb	(C) cbbc	(D) bcbc	
24.	a_c d a _ d b a _ b c a _ c d				
	(A) bcdb	(B) adbc	(C) abcd	(D) dcba	
25.	abca _ bcaab _ a _	bc _			[C]
	(A) ccaa	(B) bbaa	(C) acaa	(D) abba	

ALPHA NUMERIC SERIES

Direction (1-25): In the following questions, letters and numbers are arranged in a particular order with some underlying criterion. Study the pattern to find out the order and fill in the blanks from the given alternatives.

1.	AC2, FH7, KM12,				[B]
	(A) OP17	(B) PR17	(C) PQ15	(D) PR16	
2.	AD6, EH42, IL 110),			[A]
	(A) MP210	(B) MP198	(C) PM200	(D) PQ202	
3.	AB5, BC13, CD25,	,			[C]
	(A) DE36	(B) DE14	(C) DE41	(D) ED41	

4.	AZ7, ZA12, YB22	, XC42,			[A]
	(A) WD82	(B) WD80	(C) DW82	(D) DW80	
5.	2E3, 5L7, 11X13,				[B]
	(A) 17K19	(B) 17J19	(C) 15L17	(D) 15J17	
6.	A3B, D9E, G15H,				[A]
	(A) J21K	(B) K21J	(C) 119J	(D) 120J	
7.	D2, H3, L5, P7,				[C]
	(A) O11	(B) T10	(C) T11	(D) T12	
8.	X8P, S7L, V12J, _				[C]
	(A) U3F	(B) A4E	(C) M6G	(D) Q8J	
9.	J2Z, K4X, 17V,?,	H16R, M22P			[D]
	(A) I11T	(B) L11S	(C) I12T	(D) L11T	
10.	Z1A, X2D, V6G, 7	Г21J, R88M, P445P,	?		[A]
	(A) N2676S	(B) N2676T	(C) T2670N	(D) T2676N	
11.	B25C, E121F, H28	891, K529L,?			[C]
	(A) M1413N	(B) N1210O	(C) N841O	(D) N900P	
12.	B ₂ CD,, BCI	O ₄ , B ₅ CD, BC ₆ D			[B]
	$(A) B_2C_2D$	(B) BC_3D	(C) B_2C_3D	(D) BCD ₇	
(A) WD82 (B) WD80 (C) DW8 5. 2E3, 5L7, 11X13, (A) 17K19 (B) 17J19 (C) 15L1 6. A3B, D9E, G15H, (A) J21K (B) K21J (C) 119J 7. D2, H3, L5, P7, (A) O11 (B) T10 (C) T11 8. X8P, S7L, V12J, (A) U3F (B) A4E (C) M6G 9. J2Z, K4X, 17V,?, H16R, M22P (A) I11T (B) L11S (C) I12T 10. Z1A, X2D, V6G, T21J, R88M, P445P,? (A) N2676S (B) N2676T (C) T267 11. B25C, E121F, H2891, K529L,?	Ι		[A]		
	(A) C, 7, 4, E, 9	(B) D, 8, 6, C, 7	(C) E, 8, 7, D, 9	(D) W, 8, 7, I, 6	
14.	Z25 Y B 23 X	C W 19	_ E 17		[A]
	(A) A, 21, D, V	(B) A, 27, C, V	(C) X, 21, C, W	(D) X, 27, F, W	
15.	D6 E G P	_ H J 12 K M I	3 15		[D]
	(A) E, 7, J, L	(B) F , 8, M , K	(C) G, 9, I, M	(D) J, 9, V, N	
16.	BD8, FH 48, JL 12	20,?			[B]
	(A) MN 24	(B) NP224	(C) NP 147	(D) NP343	

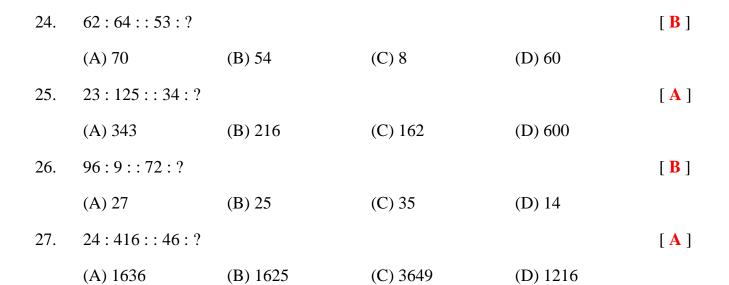
17.	A12K, B14L, C16	M, D18N, ?	(C) L 144 L (D) C 9 C (C) JK15 (D) DF 15 (C) Q12 (D) Z15 (C) D ₂ E ₃ F (D) D ₂ E ₂ F ₂ (C) A12C (D) A14B (C) 30M (D) 32M	[C]	
	(A) E5O	(B) A6B	(C) E20O	(D) E2O	
18.	CD9, EF25, GH49), ?, KL 121		[C] [C] [S] [B] [D] JK25 [A] [A] [A] [A] [B] [D] [D] [D] [A] [D] [D] [D] [A] [D] [D] [D] [D] [A] [D] [D] [D] [D] [D] [D] [D] [D] [D] [D	
	(A) IJ11	(B) LJ9	(C) IJ81	(D) JK25	
19.	R 324 R, S 361 S,	T 400T, ?, V 484 V			[A]
	(A) U441U	(B) E 25E	(C) L 144 L	(D) C 9 C	
	FK11, LR15, SZ13	3, AI17,?			[A]
	(A) JS15	(B) UN15	(C) JK15	(D) DF 15	
21.	U2, B3, I5, P7, W11,?				
	(A) D13	(B) F13	(C) Q12	(D) Z15	
22.	DEF, DEF ₂ , DE ₂ F	2 ,, $D_{2}E_{2}F_{3}$		 (D) JK25 (D) C 9 C (D) DF 15 (D) Z15 (D) D₂E₂F₂ (D) A14B 	[D]
	(A) DEF ₃	(B) D ₃ EF ₃	(C) D_2E_3F	(D) $D_2E_2F_2$	
23.	D8A, C10B, B120	·		(D) JK25 (D) C 9 C (D) DF 15 (D) Z15 (D) D ₂ E ₂ F ₂ (D) A14B (D) 32M	[B]
	(A) A11B	(B) A14D	(C) A12C	(D) A14B	
24.	16K, 25L,4	9N			[A]
	(A) 36M	(B) 30O	(C) 30M	(D) 32M	
25.	AYD25, BVF22, I	DRH18, ?, KGL7			[B]
	(A) FMI13	(B) GMJ13	(C) GLJ12	(D) HLK12	

NUMBER ANALOGY

Direction (1-27): These questions are based on number analogy. The first pair of numbers has some relationship. You are required to find out the relationship and by the same analogy replace the "?" in the second pair.

1.	17:119::13:?				[A]
	(A) 91	(B) 95	(C) 89	(D) 84	
2.	675:18::481:?				[B]
	(A) 9	(B) 13	(C) 15	(D) 17	
3.	11:121::?:289				[B]
	(A) 16	(B) 17	(C) 18	(D) 19	
4.	20:11::102:?				[B]
	(A) 49	(B) 52	(C) 61	(D) 98	
5.	8:32::10:?				[D]
	(A) 42	(B) 44	(C) 45	(D) 50	
6.	PD: 10:: CI:?				[D]
	(A) 12	(B) 10	(C) 08	(D) 06	
7.	Y/E: 20:: N/D:?				[D]
	(A) 4	(B) 6	(C) 8	(D) 10	
8.	HC:?::OK:110	/150			[D]
	(A) 10/40	(B) 20/80	(C) 30/60	(D) 30/80	
9.	8: 81 : : 64 : ?				[D]
	(A) 126	(B) 140	(C) 525	(D) 625	
10.	8:28::27:?				[D]
	(A) 8	(B) 28	(C) 64	(D) 65	

11.	6:18::4:?				[D]
	(A) 2	(B) 6	(C) 18	(D) 16	
12.	121:12::25:?				[C]
	(A) 2	(B) 1	(C) 6	(D) 7	
13.	42:20::64:?				[A]
	(A) 31	(B) 32	(C) 33	(D) 34	
14.	7528 : 5306 : : 4673	3:?			[B]
	(A) 2367	(B) 2451	(C) 2531	(D) None of these	
15.	25:125::36:?				[C]
	(A) 189	(B) 206	(C) 216	(D) 318	
16.	2:12::3:?				[A]
	(A) 36	(B) 45	(C) 81	(D) 116	
17.	17:52::1:?				[B]
	(A) 3	(B) 4	(C) 5	(D) 51	
18.	3:11::7:?				[D]
	(A) 22	(B) 29	(C) 18	(D) 51	
19.	15:35::63:?				[B]
	(A) 30	(B) 99	(C) 77	(D) 100	
20.	347 : 7 : : 738 : ?				[B]
	(A) 18	(B) 9	(C) 20	(D) 11	
21.	123:2::345:?				[B]
	(A) 4	(B) 6	(C) 8	(D) 10	
22.	64:32::84:?				[A]
	(A) 60	(B) 68	(C) 70	(D) 80	
23.	24:8::48:?				[A]
	(A) 24	(B) 25	(C) 46	(D) 72	



Directions (28-30): Choose the set of numbers from the four alternatives which is similar to the given set.

28. Given set: (6, 13, 22) [**C**] (A) (16, 23, 30) (B) (10, 16, 28) (C) (11, 18, 27) (D) (13, 19, 27) 29. Given set: (21, 38, 72) [**A**] (A) (12, 16, 24) (B) (21, 35, 41) (D) (21, 31, 45) (C) (31, 51, 72)[**C**] 30. Given Set: (5, 24, 124) (A) (7, 50, 343) (B) (5, 14, 124) (C)(3, 8, 26)(D) (4, 16, 63)

CHAPTER - 5

LETTER ANALOGY

Direction (1-25): These questions are based on letter analogy. The first pair of letters has some relationship. You are required to find out the relationship and by the same analogy replace the "?" in the second pair.

1.	YOU : QWA : : SI	O:?		[C	C]
	(A) VRS	(B) PKU	(C) KQU	(D) TZB	
2.	RVLP: CGWA::	?:EIYC		[B]
	(A) BFZW	(B) DHXB	(C) DFXZ	(D) FHMN	
3.	GERM: MERG::	STAR:?		[C]
	(A) TSRA	(B) RTSA	(C) RTAS	(D) TARS	
4.	ROAST: PQYUR	::SLOPPY:?		[C]
	(A) MRNAQN	(B) NRMNQA	(C) QNMRNA	(D) RANNMQ	
5.	DGPGJ : MPQPS :	: KNENQ : ?		[A]
	(A) TWFWZ	(B) RFUFX	(C) RXUXF	(D) TUFUX	
6.	BYCX : DWEV : :	FUGT:?		[D]
	(A) HSIQ	(B) GRHQ	(C) IT JS	(D) HSIR	
7.	ADGJ: KNQT::	?:MPSV		[D]
	(A) CIEL	(B) DJGM	(C) CLFI	(D) CFIL	
8.	HFEGD : MKJLI :	: RPOQN : ?		[A]
	(A) WUTVS	(B) XVUWT	(C) WUTXS	(D) WVUTS	
9.	PSVY : ORUX : : 1	BEHK : ?		[C]
	(A) AFDJ	(B) ADEJ	(C) ADGJ	(D) DFAJ	
10.	BSNL:LNSB::A	ADMK:?		[A]
	(A) KMDA	(B) DAKM	(C) MADK	(D) KADM	

11.	HOT: INU:: REI	D :?			[D]
	(A) SDC	(B) RDC	(C) RFE	(D) SDE	
12.	GATE: TZGV::1	ROSE:?			[B]
	(A) SLTV	(B) ILHV	(C) QLRV	(D) SLVT	
13.	HASTE: 45793::	STATE:?			[D]
	(A) 79593	(B) 79343	(C) 79394	(D) 45723	
14.	QUEEN: NEEUQ	::STARK:?			[C]
	(A) TUBSL	(B) RSZQJ	(C) KRATS	(D) KRTAS	
15.	AXE : EYI : : AIM	[:?			[B]
	(A) EON	(B) MIA	(C) AON	(D) EIM	
16.	PASS: QBTT:: F	AIL:?			[B]
	(A) GJBM	(B) GBJM	(C) MBJG	(D) MJBG	
17.	BLOCKED: YOL	XPVW::?:OZFM	XS		[D]
	(A) DEBATE	(B) RESULT	(C) LABOR	(D) LAUNC	H
18.	CEDH: HDEC::	?:PNRV			[A]
	(A) VRNP	(B) RNPV	(C) NRVP	(D) VNRP	
19.	DFHJ: LNPR:: T	VXZ:?			[C]
	(A) DBFH	(B) DBHF	(C) BDFH	(D) FDBH	
20.	ACEG: ?:: BDFF	H : KMOQ			[C]
	(A) NLPR	(B) LMNO	(C) JLNP	(D) JNLO	
21.	EGIK is related to	WUSQ in the same v	way as DFHJ is relate	d to	[D]
	(A) BDFH	(B) ECGI	(C) SQOM	(D) XVTR	
22.	DWH is related to	WDS in the same wa	ay as FUL is related to	O	[A]
	(A) UFO	(B) OFU	(C) FOU	(D) ELV	
23.	As COUNSEL is to	BITIRAK, so also	GUIDANCE is to		[B]
	(A) EQHYZKBB	(B) FOHYZJBB	(C) FPHZZKAB	(D) HOHYB	BJBA

24.	CFED is related to	PSQR in the same wa	ay as JMKL is related	d to	[C]
	(A) YXZW	(B) YVZX	(C) WZWZ	(D) UVXZ	
25.	USPL is to KMPT	as LJGC is to			[A]
	(A) BDGK	(B) CEHL	(C) GHIJ	(D) QSUW	
		CH	APTER – 6		
		WORI	D ANALOGY		
one v	vord is given on a	nother side of :: v	-	l is to be fo	on one side of :: and, und from the given
1.	Heart : Blood :: Lui	ng :?			[B]
	(A) Air	(B) Oxygen	(C) Chest	(D) Respirat	ion
2.	Doctor : Diagnosis	:: Judge : ?			[D]
	(A) Court	(B) Punishment	(C) Lawyer	(D) Judgeme	ent
3.	Mount Everest : Ne	pal :: Nanga Parbat :	?		[C]
	(A) Pakistan	(B) China	(C) India	(D) Nepal	
4.	Bouquet: Flowers:	: Sentence :?			[B]
	(A) Construction	(B) Words	(C) Letters	(D) Paragrap	oh
5.	Man : Shout :: Crov	v:?			[A]
	(A) Caw	(B) Chirp	(C) Mutter	(D) Mob	
6.	Circle: Circumfere	nce : : Square?			[D]
	(A) Volume	(B) Area	(C) Diagonal	(D) Perimete	er
7.	Bank: Money:: Tr	ansport :?			[A]
	(A) Goods	(B) Road	(C) Traffic	(D) Money	

8.

Cells: Tissues:: Atoms:?

(A) Elements

(B) Molecules

(C) Electrons

[**B**]

(D) Organs

_	~				_
9.	China: Beijing:: P	akistan : ?		[A	
	(A) Islamabad	(B) Karachi	(C) Baghdad	(D) Teheran	
10.	Reading: Knowled	dge :: Work :?		[A	.]
	(A) Experience	(B) Engagement	(C) Employment	(D) Money	
11.	Needle : Clock ::W	heel:?		[C]
	(A) Walk	(B) Road	(C) Vehicle	(D) Driving	
12.	Lock : Key :: Need	le :?		[C]
	(A) Cloth	(B) Tailor	(C) Thread	(D) Button	
13.	Rich: Poor:: Night	t :?		[C]
	(A) Moon	(B) Sun	(C) Dark	(D) Day	
14.	Car : Petrol :: Telev	vision :?		[C	.]
	(A) Antenna	(B) Entertainment	(C) Electricity	(D) Transmission	1
15.	Eye: Blink:: Heart	::?		[B]
	(A) To Walk	(B) Beat	(C) To Pump air	(D) Shiver	
16.	Cunning: Fox:: Fo	ool :?		[A	.]
	(A) Ass	(B) Horse	(C) Cat	(D) Rabbit	
17.	Circus: Entertainm	ent :: Temple : ?		[C]
	(A) Devotion	(B) Donation	(C) Worship	(D) Deity	
18.	Face : Expression ::	: Hand :?		[B]
	(A) Leg	(B) Gesture	(C) Speak	(D) Work	
19.	Satyajit Ray : Films	s :: Picasso :?		[D]
	(A) Poetry	(B) Drama	(C) Business	(D) Painting	
20.	Gravity: Pull:: Ma	ignetism :?		[B]
	(A) Strength	(B) Attraction	(C) Push	(D) Bond	
21.	Street : Lane :: Roa	d :?		[B]
	(A) Avenue	(B) Highway	(C) Footpath	(D) Junction	

22.	Monotony : Variety	y :: Crudeness :?			[A]
	(A) Refinement	(B) Raw	(C) Sobriety	(D) Simplici	ty
23.	Horse : Gallop :: D	uck :?			[B]
	(A) Strut	(B) Waddle	(C) Prowl	(D) Trot	
24.	Denigrate : Devalu	e :: Upgrade :?			[D]
	(A) Revalue	(B) Praise	(C) Demote	(D) Promote	
25.	Roster : Duty :: Inv	ventory:?			[D]
	(A) Furnace	(B) Exports	(C) Goods	(D) Produce	
Direc	etion (26 – 30): Selec	ct the pair that has t	the same relationshi	p as the origi	nal pair of words.
26.	Darkness : Lamp				[B]
	(A) Fatigue : Exerc	eise (B) Thirst:	Water (C) Medicin	e : Illness (I	O) Study : Class room
27.	Energy :Joule				[C]
	(A) Axe: Grind	(B) Ammeter : Cur	rent (C) Power:	Ampere ((D) Resistance : Ohm
28.	Bird : Wings				[C]

(A) Whale: Water (B) Dog: Lungs (C) Car: Wheel (D) Pen: Paper

CLASSIFICATION

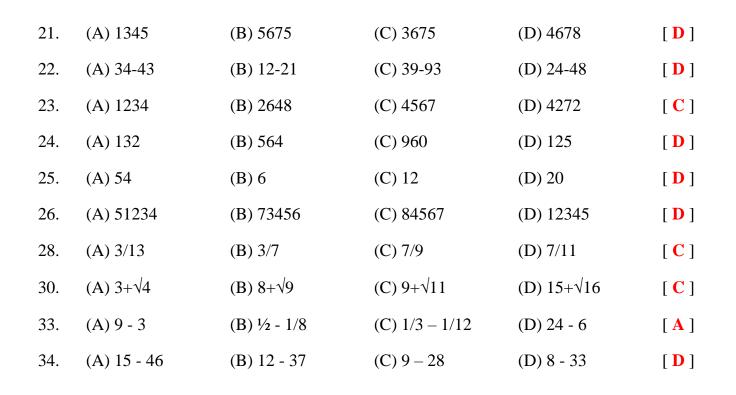
Part - A: Word Classification

Direction (1-20): In each of these questions for words are given, out of which three are alike in some manner and one is different. Choose the odd one out of them.

1.	(A) Addition	(B) Subtraction	(C) Multiplication	(D) Fraction	[D]
2.	(A) Session	(B) Month	(C) Week	(D) Fortnight	[D]
3.	(A) Bangalore	(B) Calcutta	(C) Puri	(D) Mumbai	[A]
4.	(A) Mother	(B) Brother	(C) Sister	(D) Daughter	[D]
5.	(A) Drama	(B) Story	(C) Poem	(D) Novel	[A]
6.	(A) Uncle	(B) Niece	(C) Cousin	(D) Nephew	[A]
7.	(A) Green	(B) Violet	(C) Brown	(D) Orange	[D]
8.	(A) Rectangle	(B) Trapezium	(C) Square	(D) Circle	[D]
9.	(A) Mars	(B) Jupiter	(C) Saturn	(D) Sun	[D]
10.	(A) Teeth	(B) Tongue	(C) Chin	(D) Gum	[C]
11.	(A) blue	(B) green	(C) indigo	(D) black	[C]
12.	(A) Root	(B) Fruit	(C) Water	(D) flower	[C]
13.	(A) Spinach	(B) potato	(C) radish	(D) carrot	[A]
14.	(A) thyroid	(B) pancreas	(C) heart	(D) adrenal	[C]
15.	(A) snake	(B) chameleon	(C) lizard	(D) whale	[D]
16.	(A) Aluminium	(B) silver	(C) mercury	(D) gold	[C]
17.	(A) ice	(B) dust	(C) water vapour	(D) water	[B]
18.	(A) nail	(B) hair	(C) teeth	(D) skin	[C]
19.	(A) trees	(B) shrubs	(C) garden	(D) climbers	[C]
20.	(A) eye	(B) ear	(C) nose	(D) lips	[B]

Part – B: Number Classification

Direction (21 - 35): In each of these questions four numbers are given, out of which three are alike in some manner and one is different. Choose the odd one out of them.



Part-C: Alphabet Classification

Direction (36-41): In each of these questions four letter groups are given, out of which three are alike in some manner and one is different. Choose the odd one out of them.

36.	(A) EWZA	(B) OSLS	(C) GFKD	(D) VSPM	[B]
37.	(A) FJOU	(B) EINT	(C) JNRX	(D) ADHM	[C]
38.	(A) AEGC	(B) HLNJ	(C) OSVQ	(D) VZBX	[C]
39.	(A) CEAR	(B) WEAR	(C) TEAR	(D) DEAR	[A]
40.	(A) abbc	(B) pqqr	(C) hiij	(D) wyyz	[D]
41.	(A) BCDE	(B) PQRS	(C) WXYZ	(D) STUW	[D]

Direction (42-47): In each of these questions five letter groups are given, out of which four are alike in some manner and one is different. Choose the odd one out of them.

42.	(A) PRT	(B) MOQ	(C) GEC	(D) TVX	(E) SUW	[D]
43.	(A) BEH	(B) CFI	(C) DGJ	(D) EHL	(E) FIL	[E]
44.	(A) VWY	(B) QRT	(C) LMO	(D) JKL	(E) DEG	[E]

45.	(A) EBA	(B) XUT	(C) TQP	(D) JFE	(E) YVU	[E]
46.	(A) BHE	(B) DJG	(C) SYV	(D) JPM	(E) PUS	[E]
47.	(A) JOT	(B) OUT	(C) FED	(D) DIN	(E) DOG	[B]

Direction (48-50): In each of these questions four letter groups are given, out of which three are alike in some manner and one is different. Choose the odd one out of them.

48.	(A) xXYA	(B) iIMP	(C) hHIK	(D) bBCE	[B]
49.	(A) EFGIK	(B) CDFIM	(C) BCEHL	(D) ABDGK	[A]
50.	(A) XZCG	(B) OQTX	(C) IMNQ	(D) EGJN	[C]

CHAPTER-8

CODING AND DECODING

Direction (1 to 5): If in English alphabet A is coded as 1, B is coded as 2 and so on, how are the following letters coded in that language?

1.	GOOD				[A]
	(A) 715154	(B) 741515	(C) 151574	(D) 415157	
2.	CAT				[B]
	(A) 2013	(B) 3120	(C) 3201	(D) 3102	
3.	FCI				[A]

	(A) 639	(B) 936	(C) 369	(D) 963	
4.	PENCIL				[A]
	(A) 165143912	(B) 514163912	(C) 514391612	(D) 165141293	
5.	MATHS				[D]
	(A) 13120897	(B) 31120198	(C) 13201198	(D) 13120819	
6.	If $MAN = 13114$, F	SOY = 21525, then N	MAT =		[C]
	(A) 13201	(B) 20131	(C) 13120	(D) None of these	e
7.	If $E = 5$, $PEN = 35$	then PAGE =?			[C]
	(A) 27	(B) 28	(C) 29	(D) 36	
8.	If $E = 5$ and HOTE	L = 12, how will you	ı code LAMB?		[A]
	(A) 7	(B) 10	(C) 26	(D) 28	
9.	If WORK is coded	as $4 - 12 - 9 - 16$, the	en how will you code	WOMAN?	[A]
	(A) 4 - 12 - 14 - 2	6 - 13 (B) 4 – 26 –	14 – 13 - 12 (C) 2	3 - 12 - 26 - 14 -	13
	(D) 23 – 15 – 13 –	1 - 14 (E) None of	these		
10.	If ACNE can be co	ded as 3, 7, 29, 11 th	en BOIL will be code	ed as	[D]
	(A) 5, 29, 19, 27	(B) 5, 29, 19, 25	(C) 5, 31, 21, 25	(D) 5, 31, 19, 25	
11.	If $O = 16$, $FOR = 4$	2, then what is FRO	NT equal to?		[D]
	(A) 61	(B) 65	(C) 73	(D) 78	
12.	If ZEBRA can be v	vritten as 2652181, h	ow can COBRA be v	vritten?	[B]
	(A) 302181	(B) 3152181	(C) 31822151	(D) 1182153	
13.	If 'rain' is 'water', 'path', where do ae		ad' is 'cloud', 'cloud	l' is 'sky', 'sky' is	'sea' and 'sea' is [B]
	(A) Road	(B) Sea	(C) Cloud	(D) Water (E)	None of these
14.	If 'water' is called which of the follow		led 'tree', 'tree' is ca	lled 'sky', 'sky' is	called 'wall', on
	(A) Water	(B) Food	(C) Sky	(D) Tree (E)	Wall
15.			fire', 'fire' is called ed 'dust', then where		s called 'colour', [C]

	(A) Fire	(B) Water	(C) Co	lour	(D) Dust	
16.						ar' is called 'scooter', ough a field? [D]
	(A) Train	(B) Bus	(C) Tra	actor	(D) Car	(E) Moped
17.		'stick', 'stick' is ed 'thread', what w				eedle' is called 'rope'
	(A) Stick	(B) Lead	(C) Ne	eedle	(D) Nib	(E) Thread
18.			•	_	-	sop' means 'food is does means 'hot' in [D]
	(A) dom	(B) pul (C) ta	(D) Cannot b	e determined	(E) None of these
19.	'Asha is playing		op ho' mear	ns 'they are j	playing footba	'kop ja ki ma' means all' and 'po sur kop' [A]
	(A) ja	(B) ma	(C) ko	p	(D) top	(E) ki
20.		ature' and 'oind g	_	-	-	tsi oind' means 'her ection is her hobby', [C]
	(A) cinto	(B) baoli	(C) oir	nd	(D) geit	
Direc	tion (21 – 22): In	a certain code lar	nguage,			
(A) 'p	it dar na' means ';	you are good'.				
(B) 'd	ar tok pa' means '	good and bad'.				
(C) 'ti	im na tok' means '	they are bad'.				
21.	In that language,	which word stands	s for 'they'?			[C]
	(A) na (B)	tok (C) tim		(D) pit	(E) None of t	these
22.		er to the above que Only B (C) A or		•	statements car (E) None of t	be dispensed with? These [E]

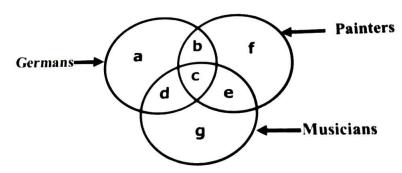
): The following quowrite the option ind		n coding and decoding ckets provided.	ng. Choose the
23.	In a certain code la in that code?	anguage, CREATIVI	E is written as BDS	BFUJS. How is TRIA	ANGLE written
	(A) BHSSFKHM	(B) BHSSMHHF	(C) BSHSFHKM	(D) BSSHFMKH (E) None of these
24.	In a certain code, S	PIDER is written as	PSDIRE. How is CO	OMMON written in th	e same code?
	(A) OCOMMO	(B) OCMMNO	(C) OCMOMN	(D) OCMMON	[D]
25.	In a certain code, S	TOVE is written as I	FNBLK. How would	VOTES be written in	that code?
	(A) FLKBN	(B) LBNKF	(C) LKNBF	(D) LNBKF	[B]
26.	If BOARD is coded	l as EQBNC, then Cl	LIMB will be coded	as	[D]
	(A) CLJKD	(B) DKJLF	(C) DNHMB	(D) FNJRO	
27.	In a certain code, C	LOUD is written as	GTRKF. How is SIC	GHT written in that co	ode? [D]
	(A) UGHHT	(B) UHJFW	(C) WFJGV	(D) WGJHV	
28.	If in a certain lang SUPREME?	uage, BROUGHT is	s coded as SGFVAC	QN, which word wou	ld be coded as [B]
	(A) DLDSTVQ	(B) DLDSRTO	(C) FNFSRTO	(D) RTOSDLD	
29.	In a code langua	_	itten as WPSLPIM	IFHA. What does	the code-word
	(A) WATER	(B) WAGER	(C) EAGER	(D) WAFER	
30.	If in a certain code, (A) BARED	SWITCH is written (B) BRAED	as TVJSDG, which (C) BREAD	word would be writte (D) BRADE	n as CQFZE?
31.	If in a certain langer PNIICC?	guage, REMORE is	coded as ROTEM	E, which word would	d be coded as [B]
	(A) NPIICC	(B) PICCIN	(C) PINCIC	(D) PICNIC (I	E) PIC1NC
32.	If FULFNHW is th	e code for CRICKET	, then EULGH is the	e code for which wor	d. [B]
	(A) PRIDE	(B) BRIDE	(C) BLADE	(D) BLIND (E) N	one of these
33.		vritten as QRSTUV n in the same code?	W and SOUND is	written as ABCSD,	then how will [A]

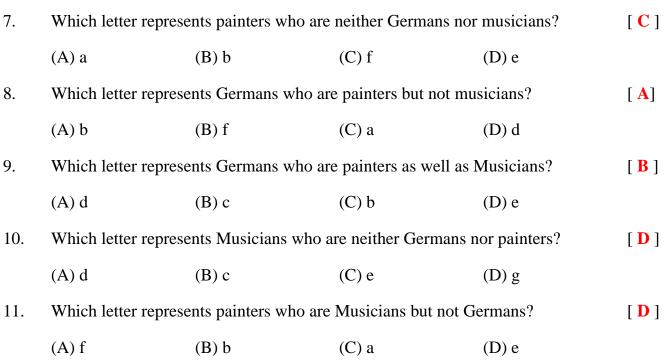
	(A) SBFEFS	(B) UTVDTU	(C) TUDVUT	(D) QDZCDQ	
34.	In a code language, BLAME written in	STARK is written at that code?	as LBFMG and MOF	BILE is written as Ti	NRSPJ. How is
	(A) TSFRJ	(B) RPFTJ	(C) NJFTP	(D) TSFGJ	
35.	If CONCEPT is we written in that code	ritten as unmulqr and?	d FRIEND is writter	as ysglmt, then ho	w is PREDICT [C]
	(A) usygmnl	(B) slmgtur	(C) qsltgur	(D) qgmnltr	
36.		ge, ORGANISATION YQCL, then how is S			PERATION is
	(A) EJXEBEYQCL	(B) JFQYWBCXQ	L (C) JFXWBWYQ	CL (D) QCLYWBF	XJE
37.	If the word PORTE	R can be coded as M	BNZQN, how can R	EPORT be written?	[B]
	(A) NQMNBZ	(B) NQMBNZ	(C) NBQMNZ	(D) NQBMNZ	
38.	If in a certain lang GBNPVT?	uage, POPULAR is	coded as QPAVMB	S, which word wou	ld be coded as
	(A) FARMER	(B) FAMOUS	(C) FRAMES	(D) FARMES (E)	FAMOTH
39.	In a certain code, le coded as NOITINU	REFERIGERATOR MMA?	is coded as ROTAR	REGIRFER. Which	word would be
	(A) ANMOMIUTN	II (B) AMNTO	OMUIIN (C) AMM	UNITION (D) NM	MUNITIOA
40.	If in a certain langu	age, SHIFT is coded	as RFFBO, which w	ord would be coded	as LKUMB?
	(A) MMXQG	(B) MLVNC (C) KJVLA (D) M	IJVLC (E) KJTLA	[D]
41.	In a certain code, ERMBVENO in tha	DECEMBER is writed at code?	itten as ERMBCED	E. Which word will	be written as
	(A) AUGUST	(B) SEPTEMBER	(C) OCTOBER	(D) NOVEMBER	
42.		N, D is replaced by T be word INTRODU	•	y R, T by O, U by D	, N by C and C
	(A) UCONIDTER	(B) UCONITDER ((C) UCONTIDER (I	O) UCOINTDER (E)	None of these
43.		TRE is written as QF d be the code for the		ZMWE. Following th	ne same rule of
	(A) MWED	(B) MWEO	(C) MWOE	(D) MWZO	

44.	If in a certain code coded as DMSFXG	• •	L is written as WV	GPUKN then	which word would be [D]				
	(A) BKQEVE	(B) BKQDWE	(C) BKQDWF	(D) BKQDV	/E				
45.	If in a certain code language?	language SIGHT is	coded as FVTUG,	, then how is R	EVEAL coded in that [D]				
	(A) YNRIRE	(B) DQHGMX	(C) FSJSOZ	(D) ERIRN	Y				
46.	In a certain TRUTH	is coded as SUQST	TVSUGI. How is FA	ALSE coded in	that language? [B]				
	(A) EGZBKMRDE	(B) EGZKMRTDF	(C) EGZBKMRT	DF (D) F	GZBKNRTDF				
47.	In certain code, BO	XER is written as A	QWGQ. How VISI	T is written in t	hat code? [B]				
	(A) UKRKU	(B) UKRKS	(C) WKRKU	(D) V	VKRKS				
48.	If in a certain cool language?	le FAVOUR is wr	itten EBUPTS, the	en how is DA	NGER coded in that [B]				
	(A) CBFFDS	(B) CBMHDS	(C) EBFHDS	(D) E	EBHHFS				
49.	In a certain code la be written in that co	-	ΓE is written as QT	TUIDBSD. Ho	w would STATISTIC [D]				
	(A) RSBUJTUHB	(B) RSBUIT	гинв (С)	RSBUIRSJD	(D) TUBUITUMB				
50.	If NARGRUED is t	he code for GRAND	DEUR, which word	is coded as SEF	RPEVRE? [D]				
	(A) PERSEVER	(B) PRESE	VER (C)	PREVERSE	(D) PRESERVE				
		СН	APTER – 9						
		LOGICAL	VENN DIAGR	AMS					
	Direction (1-6): These questions are based on the following diagrams. After studying the diagrams carefully, choose the correct figure indicating relation between the given groups.								
		00							
	(A)	(B)		(C)	(D)				
1.	Fruits, Mango, Milk	<u> </u>			[C]				

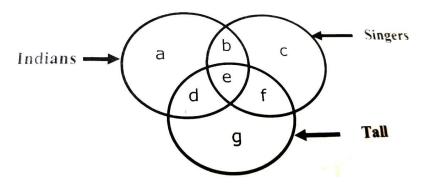
2.	Seconds, Minutes, Hours	[A]
3.	Elephant, Lion, animals	[D]
4.	Tree, Shrubs, plants	[A]
5.	Human Beings, Teachers, woman	[D]
6.	Games, Hockey, Cricket	[B]

Direction (7-11): With the help of the given diagram, answer the following questions by making the right choice from the given alternatives.





Direction (12 to 16): With the help or the given diagram, answer the following questions by making the right choice from the given alternatives.



- 12. Which letter represents Indians who are neither singers nor tall? [A]
 - (A) a
- (B) e
- (C) c
- (D) g
- 13. Which letter represents Indians who are tall but not singers?

[**A**]

- (A) b
- (B) d
- (C) f

- (D) e
- 14. Which letter represents Indians who are tall but not singers?

[**B**]

- (A) b
- (B) d
- (C) f
- (D) e

15. Which letters represent Indians who are tall?

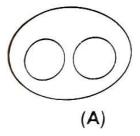
[**B**]

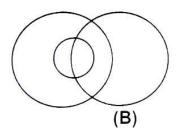
- (A) d, e, b
- (B) d, e
- (C) d
- (D) e
- 16. Which letter represents tall Indians who are signers?

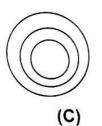
[**D**]

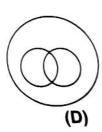
- (A) a
- (B) c
- (C) g
- (D) e

Direction (17-22): These questions are based on the following diagrams. After studying the diagrams carefully, choose the correct figure indicating relation between the given groups.









17. Females, Mothers, Doctors

[**B**]

18. Family, Brothers, Sister

[**D**]

19. Musicians, Violinists, Instrumentalist

[**C**]

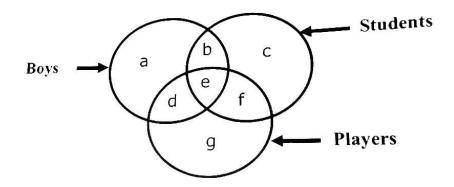
20. Tomato, Cucumber, Vegetables

[**A**]

21. Hours, Minutes, Seconds [C]

22. Teachers, Human Beings, Graduates [D]

Direction (23 to 27): With the help of the given diagram, answer the following questions by making the right choice from the given alternatives



23. Which letter represents boys who are neither students nor players? [C]

(A) c (B) b

(C) a (D) d

24. Which letter represents boys who are both students and players? [B]

 $(A) a \qquad \qquad (B) e \qquad \qquad (C) g \qquad \qquad (D) f$

25. Which letter represents students who are boys but not players? [C]

(A) e (B) c (C) b (D) a

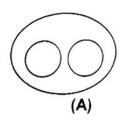
26. Which letter represents players who are boys but not students? [A]

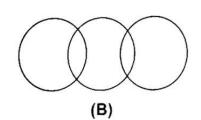
(A) d (B) b (C) c (D) e^{-a}

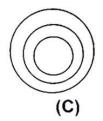
27. Which letter represents students who are neither boys nor players? [D]

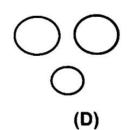
(A) b (B) a (C) d (D) c

Direction (28-30): These questions are based on the following diagrams. After studying the diagrams carefully, answer the questions by identifying the correct alternative.









28. Square, Rhombus, Quadrilateral

[**A**]

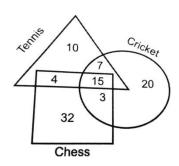
29. Students, Indian, American

[**B**]

30. Paper, Rock, Scissors

[**D**]

Directions (31-35): Given below is a venn diagram showing number of students playing three different games.



31. How many students play exactly two games?

[**C**]

- (A) 20
- (B) 14
- (C) 15
- (D) 20

32. How many students do not play chess?

[**A**]

- (A) 20
- (B) 27
- (C) 37
- (D) 40

33. How many students play at least two games?

[**B**]

- (A) 14
- (B) 15
- (C) 29
- (D) 30
- 34. How many students play cricket and Tennis but not Chess?

[**A**]

- (A) 7
- (B) 22
- (C) 30
- (D) None of these

35. How many students play all the three games?

[**C**]

- (A) 3
- (B) 4
- (C)7
- (D) 15

DICTIONARY TEST

Direction (1 –	5): Arrange the give	n words in alphab	etical order. Whi	ich word come	s first in the
dictionary ord	ler?				

1.	(A) jocobite	(B) jacobean	(C) jackdaw	(D) jam	[C]

Direction (6-10): Arrange the given words in alphabetical order. Which word comes second in the dictionary order.

6.	(A) locomotive	(B) lock	(C) loan	(D) live	[C]
0.	(11) 100011101110	(D) 100K	(C) 10an	(1) 11 (0)	

10. (A) mouth (B) mouse (C) mount (D) mostly
$$\begin{bmatrix} \mathbf{C} \end{bmatrix}$$

Direction (11-15): Arrange the given words in alphabetical order. Which word comes third the dictionary order.

11.	(A) enzyme	(B) epicure	(C) enthuse	(D) entertain	[D]
-----	------------	-------------	-------------	---------------	--------------

Direction (16-20): Arrange the given words in alphabetical order. Which word comes last in the dictionary order.

16. (A) amend (B) amber (C) amateurish (D) ample [D]

17. (A) bemoan (B) belong (C) benediction (D) bend [C]

18. (A) castanets (B) caterpillar (C) cataract (D) cassock [B]

19. (A) crawl (B) crescendo (C) creel (D) crazy [B]

20. (A) din (B) dim (C) direct (D) dioxide [C]

Direction (21 - 25): Identify the correct order in which the four words given in each question appear in a dictionary.

21. (1) Staple (2) Squirrel (3) Strange (4) Suggest [A]

(A) 2, 1, 3, 4 (B) 2, 3, 1, 4 (C) 2, 4, 1, 3 (D) 4, 3, 1, 2

22. (1) Apathy (2) Appear (3) Appointment (4) Applause [D]

(A) 1, 3, 2, 4 (B) 1, 2, 3, 4 (C) 1, 3, 4, 2 (D) 1, 2, 4, 3

23. (1) Calculator (2) Calcium (3) Calligraphy (4) Calendar [A]

(A) 2, 1, 4, 3 (B) 2, 1, 3, 4 (C) 2, 3, 1, 4 (D) 2, 3, 4, 1

24. (1) Feather (2) Father (3) Feast (4) Fear [C]

(A) 2, 4, 1, 3 (B) 2, 1, 3, 4 (C) 2, 4, 3, 1 (D) 2, 1, 4, 3

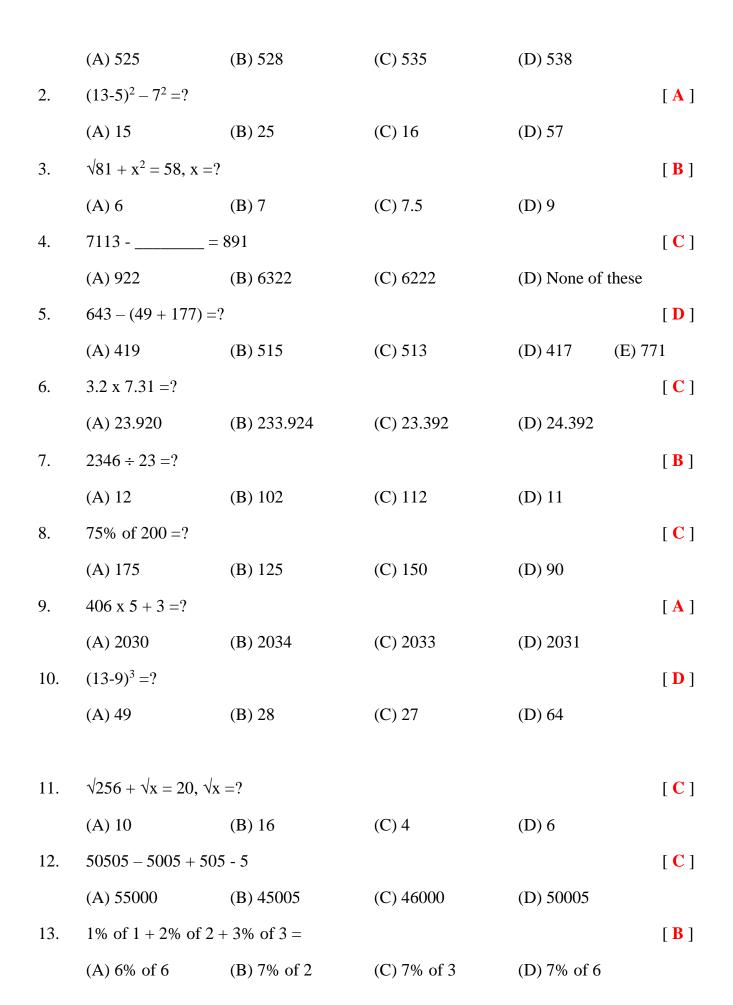
25. (1) Rotate (2) Roll (3) Round (4) Rose [B]

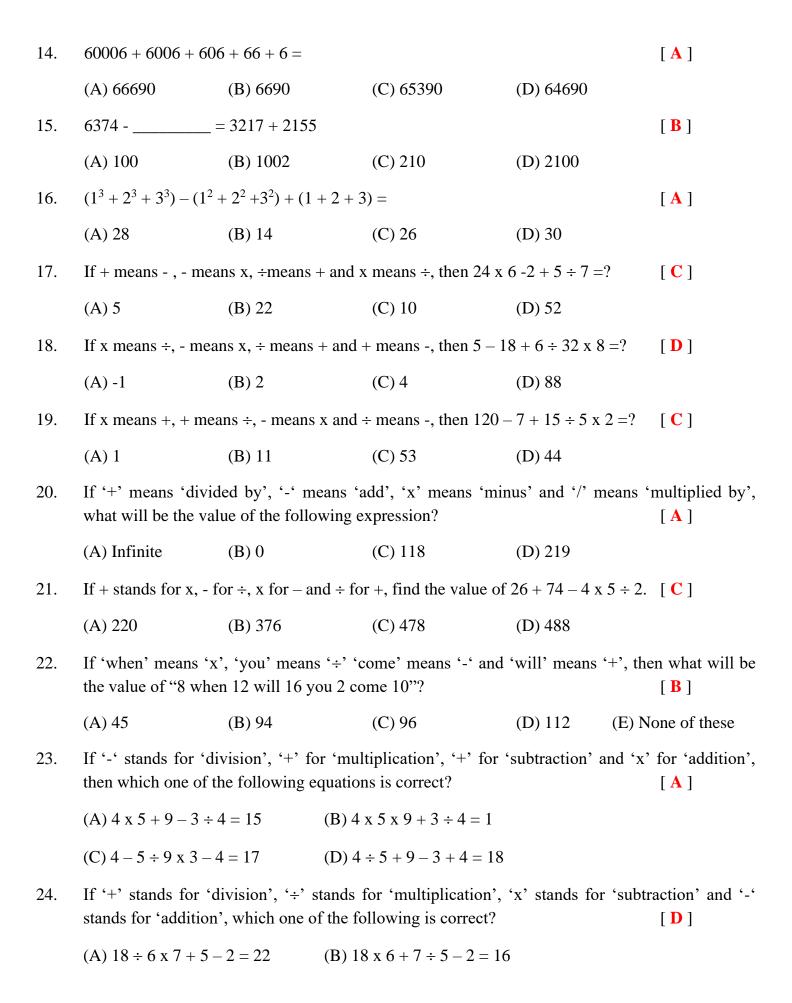
(A) 2, 4, 3, 1 (B) 2, 4, 1 3 (C) 2, 1, 3, 4 (D) 2, 3, 4, 1

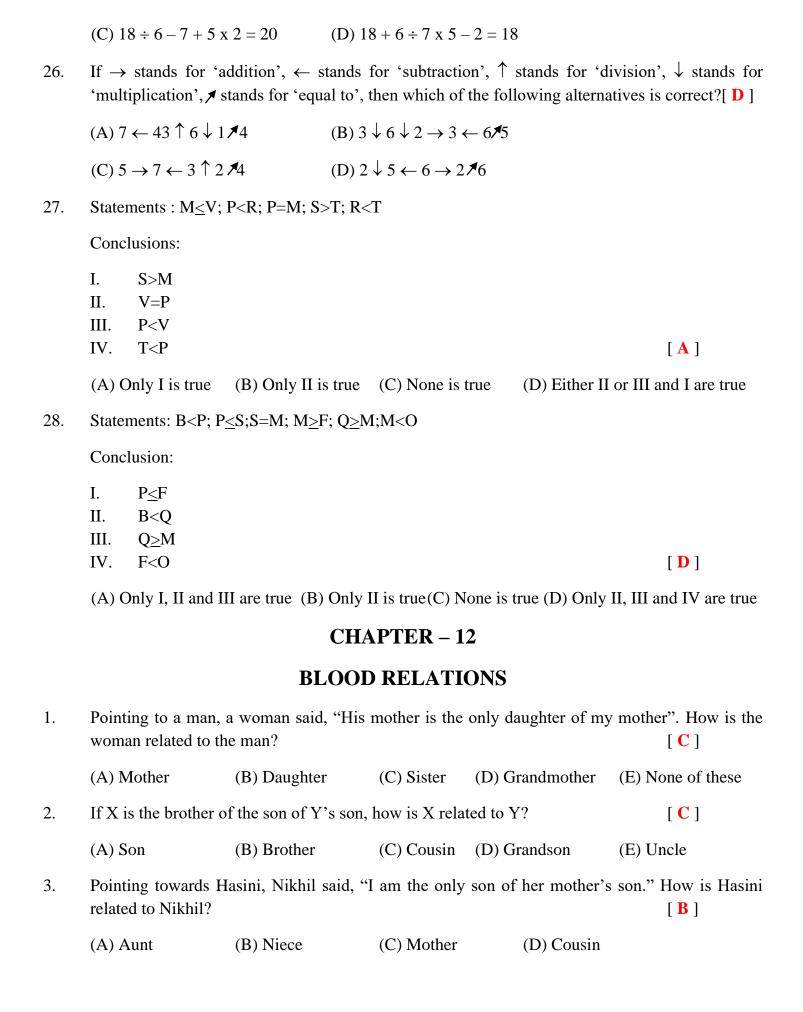
CHAPTER – 11

BASIC ARITHMETIC

Direction (1-16): These questions are based on simple arithmetic operations. Choose the right answer.







4.	Vamsi has a relationship, v				the son of Ran	n. Bim	al is Ram's f	eather. In terms of [D]
	(A) Son		(B) Gı	randson	(C) Brother	(I	D) Grandfathe	ŗ
5.	Introducing K Harika related	_		said, "She is	the only daughte	er of my	y father's only	daughter." How is
	(A) Aunt	(B) Ni	iece	(C) Cousin	(D) Data inade	quate	(E) None	e of these
6.	How is my fat	ther's	father i	n law's only	daughter related	to my s	sister?	[C]
	(A) Cousin		(B) M	other	(C) Aunt	(I	D) None of the	ese
7.	Pointing to a father's son."	_				ner or si	ister but that r	man's father is my [B]
	(A) His own		(B) Hi	s Son	(C) His Father	(I	D) His Grandfa	ather
8.	_		-		aph, Anjali said, ated to Anjali?	"He is	the only son o	of the father of my
	(A) Anjali Fat	ther	(B) Ar	njali Mother	(C) Anjali Brot	ther (I	D) Maternal U	ncle
9.	A told B, "Ye meet?	esterda	y I me	t the only bro	other of the daug	thter of	my grandmot	her". Whom did A [A]
	(A) Father		(B) Co	ousin	(C) Brother	(I	D) Son	
10.	Pointing to a j	-	•		_	iter of n	ny grandfather	s's only son." How
	(A) Cousin		(B) M	other	(C) Sister	(I	D) Grand Moth	ner
11.	_	_			said, "His moth t was Varun look		e wife of my f	father's son. I have [A]
	(A) His child		(B) Hi	s grandson	(C) His Father	(I	D) His nephew	,
12.	•	•	•	• 1	n said, "Her mo		brother is the	e only son of my [A]
	(A) Aunt or M	Iother	(B) Co	ousin	(C) sister	(I	D) Grand Moth	ner
13.	Pointing to a How is gentle	_		-	"His only brothe	r is the	father of my	daughter's father." [C]
	(A) Brother		(B) Fa	ther	(C) Uncle	(I	D) Grand Fathe	er

14.	If Shiva says, "Raj" (A) Brother	s mother is the only (B) Father	daughter of my moth (C) Maternal Uncle		lated to Raj? [C]
15.		graph, a woman says	s, "This man's son's s in the photograph?	sister is my mother-i	n-law." How is
	(A) Grandson	(B) Son	(C) Son-in-law	(D) Cousin	
16.	-		oman said, "His brot to the man in the pho		only son of my [A]
	(A) Sister	(B) Daughter	(C) Wife	(D) Cousin	
17.			"The lady in the phohotograph related to		
	(A) Mother-in-law	(B) Mother	(C) Sister-in-law	(D) Cousin	
18.		ita's father Raman is ister of Anita, related	the only son of my falto Mahipal?	ather-in-law Mahipa	l". Then how is [A]
	(A) Granddaughter	(B) Daughter	(C) Sister	(D) None of these	
19.	Pointing to Sahil, N is related to Sahil?	Ieeru says, "I am the	daughter of the only	son of his grandfathe	er." How Neeru [A]
	(A) Sister	(B) Daughter	(C) Mother	(D) Cousin	
20.	Pointing to a gentle the gentleman relate		His only brother is the	e father of my son's	father." How is
	(A) Brother	(B) Father	(C) Uncle	(D) Grand Father	
21.	A's father is B's so	n-in-law, C, A's siste	er, is the daughter of l	P. How is P related to	o B [D]
	(A) Brother	(B) Father	(C) Grand Father	(D) can't be determ	nined
22.	A is the son of B. C is E related to F?	C, B's sister has a son	n D and a daughter E	. F is the maternal u	ncle of D. How
	(A) Sister	(B) Niece	(C) Mother	(D) Cousin	
23.	Daya has a brother Bimal?	Anil; Daya is the son	n of Chandra. Bimal	is Chandra's father.	What is Anil to
	(A) Brother	(B) Son	(C) Grandson	(D) Cousin	
24.	A girl introduced a	boy as the son of the	daughter of the fathe	er of her uncle. The b	ooy is girl's [A]

	(A) Brother	(B) Son	(C) Uncle	(D) Son in law		
25.	When Anuj saw Mainsh related to A		"He is the son of the	ne father of my daugh	ter." How is A]	
	(A) Son	(B) Nephew	(C) Uncle	(D) Brother		
		CHA	APTER – 13			
		DIRECTI	ON SENSE TES	ST		
1.	_		turned right and trav	velled 5 km. Then again	turned right C]	
	(A) East	(B) West	(C) North	(D) South		
2.	•		a right turn and wal	lked 40 m. Then he too ting point?	ok a left turn B]	
	(A) South	(B) North-East	(C) East	(D) South-East		
3.	Anil wants to go the university. He starts from his house which is in the East and comes to a crossing. The road to his left ends in a theatre, straight ahead is the hospital. In which direction is the University?					
	(A) East	(B) West	(C) North	(D) South		
4.	turns to left runs 5	m and then turns to turns to left, runs 1	left, runs 12 m and	nd turns to right, runs 9 finally turns to left and s to left and runs 6 m.	I runs to left,	
	(A) East	(B) West	(C) North	(D) South		
5.	If South-East become	nes North, North-Ea	st becomes West and	so on, what will west b	pecome? [B]	
	(A) East	(B) North-West	(C) North	(D) South-East		
6.	Y is in the East of Y of Y, is P?	X, which is in the No	orth of Z. If P is in the	e South of Z, then in wh	nich direction A]	
	(A) North	(B) South	(C) South-East	(D) None of these		
7.			•	nd a little further to his which direction is he r (D) West [•	

8.	At 3.00 PM hou shown by hours		ontal clock shov	wing North direction	What is the direction [D]
	(A) East	(B) West	(C) North	(D) South	
9.			•	•	m. Then turning to his r is he from his initial [E]
	(A) 20 m	(B) 3 m	(C) 60 m	(D) 80 m	(E) 50 m
10.	his left and walk		urned to his rigi		0 m. He then turned to At what distance is he [A]
	(A) 35 m East	(B) 35 m North	(C) 40 m E	ast (D) 60 m Ea	ast (E) None of these
11.	then turned left a		e again turned le	eft and walked 40 m	t and walked 30 m. He and reached a point Q. [C]
	(A) 20 m West	(B) 10 m East	(C) 10 m W	Vest (D) 10 m N	orth (E) None of these
12.					km. Again he turns to how far is he from his
	(A) 3 km	(B) 4 km	(C) 5 km	(D) 7 km	
13.	turned right and	cycled 20 Km and t	urned left and c	_	and cycled 10 km and ned left and cycled 20 t? [C]
	(A) $50\sqrt{2}$ Km Km	(B) $30\sqrt{2}$	Km	(C) $10\sqrt{3}$ Km	(D) $60\sqrt{3}$
14.				C	e turns to the east and now from his starting [B]
	(A) 18 Km	(B) 10 Km	(C) 16 Km	(D) 12 Km	
15.	direction of his situated 4 km in	own village. From t	here he came to e's village. How	meet his father-in-	way in the North-East law living in a village t direction is he now? in the North [B]

16.	Dhanunjay walks 10 m to towards the South, Turning to the left; he walks 20 m and then move to his right. After moving a distance of 20 m, he turns to the right and walks 20m. Finally, he turns to the right and moves a distance of 10 m. How far and in which direction is he from the starting point?					
	(A) 20 m North	(B) 20 m South	(C) 10 m North	(D) 10 m South		
17.			om there, he walks 6 n direction is he with			
	(A) 2 km South-Ea	ast (B) 5 km South-E	East (C) 5 km N	orth-East (D) 5 ki	n West	
18.	20 m, he turns Sortowards the North	uth and walks 10 m	ouse. He walks towa . Then he walks 35 ards East and walks	m towards the Wes	st and further 5 m	
	(A) 0 m	(B) 5m	(C) 10m	(D) None of thes	se	
19.		alked 20 m. He aga from the starting po				
	(A) 20 m North	(B) 20 m South	(C) 20 m West	(D) 20 m East		
20.	left and walks 10		en turns to her right a o her left she walks ent position?			
	(A) 14	(B) 24	(C) 34	(D) 44		
21.	Vinay walks a distance of 3 km towards North, then he turns to his left and walks for 2km. He again turns left and walks for 3 km. At this point he turns to his left and walks for 3km. How many km is he from the starting point? [A]					
	(A) 1 Km	(B) 2 Km	(C) 3 Km	(D) 4 Km		
22.	_		alking to each other n, which direction wa		ossing. If Vishal's	
	(A) East	(B) West	(C) North	(D) South		
Direc	ction (23-25): Each	of the following an	estions is based on t	he following infor	mation:	

- 1. A # B means B is at 1 m to the right of A.
- 2. A \$ B means B is at 1 m to the North of A
- 3. A * B means B is at 1 m to the left if A.

5. In each question first person from the left is facing North. According to X @ B * P, P is in which direction with respect to X? 23. [**D**] (A) South (B) North-East (C) North (D) South-West According to M # N \$ T, T is in which direction with respect to M? 24. [**B**] (C) North-West (A) South-East (B) North-East (D) South-West According to P # R \$ A * U. In which direction is U with respect to P? [**C**] 25.

(C) North

(D) South

4. A @ B means B is at 1 m to the south of A.

(B) West

(A) East

CHAPTER – 14

MISSING CHARACTER

Direction (1-25): Find the missing number in the given structure using the logic involved in the other hint structures.

CALENDAR

Direction (1-25): Read the question carefully and choose the correct answer.

1.	Which among the following is a leap year?							
	(A) 2600	(B) 2700	(C) 2800	(D) 3000				
2.	Which among the following is a leap year?							
	(A) 2245	(B) 5702	(C) 1582	(D) 1604				
3.	The no. of odd day	The no. of odd days in 382 days?						
	(A) 1	(B) 2	(C) 3	(D) 4				
4.	The no. of odd day	ys in 343 days?			[B]			
	(A) 1	(B) 0	(C) 3	(D) 4				
5.	The no. of odd day	ys in 1000 days?			[A]			
	(A) 5	(B) 3	(C) 1	(D) 6				
6.	The last day of a c	entury cannot be			[D]			
	(A) Monday	(B) Wednesday	(C) Tuesday	(D) Sunday				
7.	Today is Tuesday. After 61 days, it will be							
	(A) Sunday	(B) Monday	(C) Friday	(D) Saturday				
8.	How many days are there in x weeks x days?							
	(A) $7x^2$	(B) 8x	(C) 14x	(D) 7				
9.	Jan 1, 2007 was M	Ionday. What day to	the week lies on Jan	1, 2008?	[B]			
	(A) Monday	(B) Tuesday	(C) Saturday	(D) Friday				
10.	March 1, 2012 wa	s Tuesday, What day	of the week lies on	March 1, 2013?	[A]			
	(A) Wednesday	(B) Thursday	(C) Friday	(D) Saturday				
11.	On what dates of J	une, 2001 did Wedn	esday fall?		[D]			
	(A) 1^{st} , 8^{th} , 15^{th} , 22^{th}	2 nd , 29 th	(B) 2^{nd} , 9^{th} , 16^{th} , 23^{rd} , 30^{th}					
	(C) 6^{th} , 13^{th} , 20^{th} , 20^{th}	27 th	(D) 4^{th} , 11^{th} , 18^{th} ,	(D) 4 th , 11 th , 18 th , 25 th				
12.	On what dates of February, 2012 did Wednesday fall?							

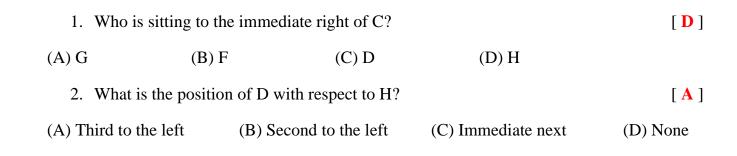
	(A) 1^{st} , 8^{th} , 15^{th} , 22^{nd} , 29^{th}	((B) 2^{nd} , 9^{th} , 16^{th} , 23^{rd} , 30^{th}			
	(C) 6^{th} , 13^{th} , 20^{th} , 27^{th}	((D) 4 th , 11 th , 18 th , 25 th			
13.	What day of the week it was on July 2 nd 2009?					
	(A) Monday	(B) Thursday	(C) Friday	(D) Saturday		
14.	What day of the week it w	ill be on Novem	aber 14 th 2012?		[B]	
	(A) Wednesday	(B) Thursday	(C) Friday	(D) Saturday		
15.	What day of the week it is	on August 15 th	1947?		[B]	
	(A) Thursday	(B) Friday	(C) Monday	(D) None		
16.	If 25 th May 2003 is Sunday	y, what day of th	ne week will be 25 th May 2	2004?	[B]	
	(A) Monday	(B) Tuesday	(C) Saturday	(D) Friday		
17.	What day of the week it w	ill be on January	y 18 th 1991?		[D]	
	(A) Wednesday	(B) Thursday	(C) Friday	(D) Saturday		
18.	What day of the week it w	ill be on June 12	2 th 1989?		[B]	
	(A) Wednesday	(B) Monday	(C) Friday	(D) Saturday		
19.	What day of the week it w	ill be on August	14 th 2014?		[B]	
	(A) Wednesday	(B) Thursday	(C) Friday	(D) Saturday		
20.	What day of the week it w	ill be on Novem	ber 14 th 1889?		[D]	
	(A) Tuesday	(B) Thursday	(C) Friday	(D) Saturday		
21.	What day of the week it w	ill be on Octobe	er 2, 1869?		[D]	
	(A) Tuesday	(B) Thursday	(C) Friday	(D) Saturday		
22.	The calendar for the year 2	2016 will be the	same for the year:		[C]	
	(A) 1936	(B) 2022	(C) 1988	(D) 2062		
23.	What day of the week it w	ill be on January	y 26 th 1950?		[B]	
	(A) Wednesday	(B) Thursday	(C) Friday	(D) Saturday		
24.	The calendar for the year 2	2007 will be the	same for the year:		[D]	
	(A) 2014	(B) 2016	(C) 2017	(D) 2018		

25.	The calendar for the year	e for the year:		[A]	
	(A) 2006	(B) 2005	(C) 2007	(D) 2008	

CHAPTER - 16

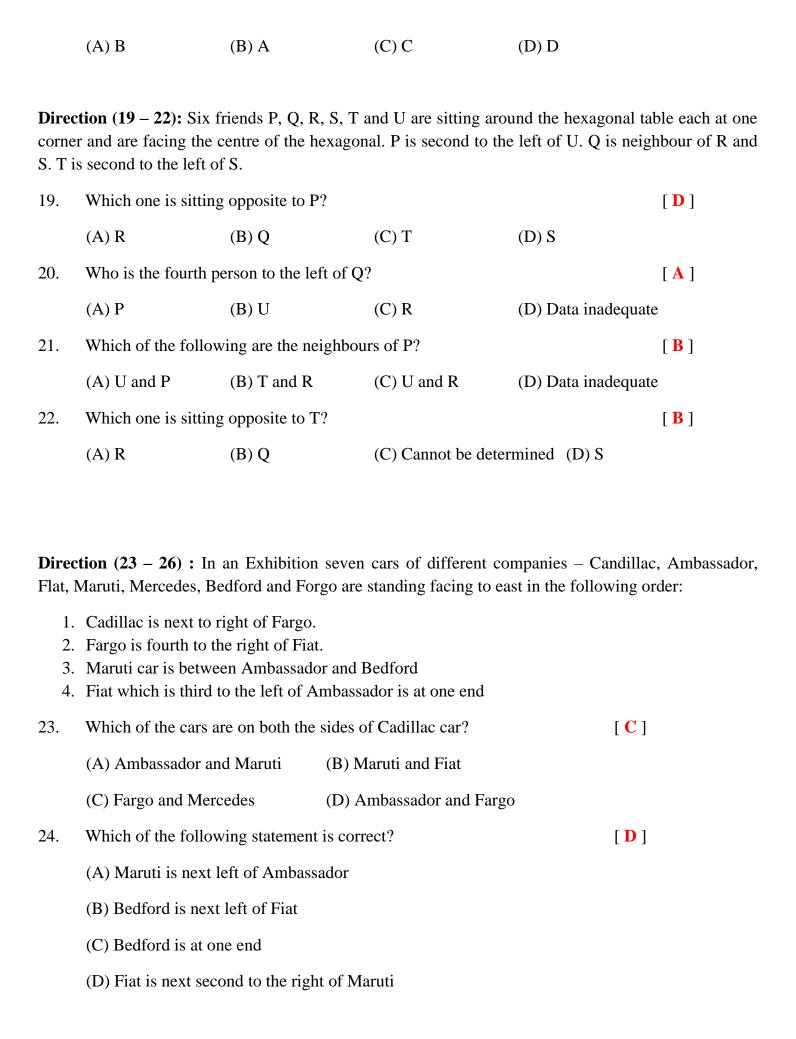
SEATING ARRANGEMENT

Direction (1-3): Study the given information carefully and answer the following question. Eight men A, B, C, D, E, F, G and H are sitting around a circular table facing the Centre for having their lunch. G is not an immediate neighbour of C.A. is third to the right of C.E is second to the left of C.C. is second to the left of F.



	3. Which of (B]	the following is the	first person sitting b	etween the second and third	l person?		
	(A) ABG	(B) DCH	(C) CHB	(D) FED			
Direc	etion (4-8): Each of	these questions is ba	ased on the information	on given below:			
1.	8 persons E, F, G,	, H, I, J, K and L are	seated around a squa	re table – two on each side.			
2.	There are 3 ladies who are not seated next to each other.						
3.	J is between L and	d F.					
4.	G is between I and F.						
5.	H, a lady member	is second to the left	of J.				
6.	F, a male member	r is seated opposite to	E, a lady member.				
7.	There is a lady mo	ember between F and	1 I.				
	4. Who amon	g the following is to	the immediate left of	F?	[B]		
	(A) I	(B) J	(C) G	(D) H			
	5. What is tru	e about J and K?			[D]		
	(A) J is male, K is	s female (B) J is fer	male, K is male (C)	Both are female (D) Both ar	e male		
	6. How many	persons are seated b	etween K and F?		[C]		
	(A) 1	(B) 2	(C) 3	(D) 4			
	7. Who amon	g the following are t	hree lady members?		[C]		
	(A) E, H and J	(B) E, F and G	(C) E, H and G	(D) C, H and J			
	8. Who amon	g the following is se	ated between E and F	I?	[B]		
	(A) F	(B) K	(C) I	(D) Can't be determined			
Direc	etion (10-13): A, B,	, C, D, E, F and G are	e sitting in a row faci	ng North:			
1. 2. 3. 4.	E is 4 th to the tC is the neighb	nediate right of E. right of G. bour of B and D. third to the left of D	is at one of ends.				

10.	Who are to the left	of C?			[C]
	(A) Only B	(B) G, B and D	(C) G and B	(D) D, E, F and A	
11.	Which of the follow	ving statement is not	true?		[B]
	(A) E is to the imm	(A) E is to the immediate left of D (B) A is at one of the ends			
	(C) G is to the imm	nediate left of B	(D) F is second to t	the right of D	
12.	Who are the neighb	oours of B?			[C]
	(A) C and D	(B) C and G	(C) G and F	(D) C and E	
13.	What is the position	n of A?			[A]
	(A) Between E and	D (B) Extreme	e left (C) Centre	(D) Extreme right	
1. 2. 3. 4. 5. 6.	five ladies sittin B who is just no C and N are dia E is opposite to	eg in a second line parext to the left of D, is gonally opposite to early O who is just next rithe left of Q, is opposite to early of the line.	arallel to the first line opposite to Q. each other. ight of M.	south – while M, N, and are facing to No	
	(A) Q	(B) N	(C) M	(D) Data inadequat	e
15.	_	ace of E, E shifts to to the left of the personal (B) P	•	Q shifts to the place (D) D	of B, then who
16.		. ,	ly opposite to each of	. ,	[D]
10.	(A) EQ	(B) BO	(C) AN	(D) AM	[]
17.	If O and P, A and E	E and B and Q intercl		, then who will be the	e second person
	(A) D	(B) A	(C) E	(D) O	
18.	In the original arrar	ngement who is sittin	ng just opposite to N?	,	[B]



- 25. Which one of the following statements is correct? [**D**] (A) Fargo car is in between Ambassador and Fiat. (B) Cadillac is next left to Mercedes and Fiat (C) Fargo is next right of Cadillac (D) Maruti is fourth right of Mercedes. 26. Which of the following groups of cars is to the right of Ambassador? [**B**] (A) Cadillac, Fargo and Maruti (B) Mercedes, Cadillac and Fargo (C) Maruti, Bedford and Fiat (D) Bedford, Cadillac and Fargo CHAPTER – 17 **PUZZLE TEST** Direction (1-5): Read the following information carefully and answer the questions that follow: (i) Five friends P, Q, R, S and T travelled to five different cities of Chennai, Calcultta, Delhi, Bangalore and Hyderabad by five different modes of transport Bus, Train, Aeroplane, Car and Boat from Mumbai. (ii) The person who travelled to Delhi did not travel by boat, (iii) R went to Banglore by car and Q went to Calcutta by aeroplane. (iv) S travelled by boat whereas T travelled by train. Mumbai is not connected by bus to Delhi and Chennai. (v)
- (A) P Bus (B) Q Aeroplane (C) R Car (D) S Boat (E) T Aeroplane

 2. Which of the following combinations is true for S? [C]

 $[\mathbf{E}]$

Which of the following combinations of person and mode is not correct?

1.

	(A) Delh	i - Bus	(B) Chennai - Bus		(C) Chennai	- Boat	(D) D	ata Inadequa	ate
	(E) None	of These							
3.	Which of	the follow	ving combinations o	f place a	and mode is no	ot correc	ct?	[E]]
	(A) Delh	i - Bus	(B) Calcutta - Aero	oplane	(C) Bangalo	re - Car	(D) Cl	nennai – Bo	at
	(E) Hyde	erabad – B	us						
4.	The person	on travelli	ng to Delhi went by	which o	f the followin	g modes	s?	[B]]
	(A) Bus		(B) Train	(C) A	eroplane	(D) Ca	ar	(E) Boat	
5.	Who amo	ong the fol	lowing travelled to I	Delhi?				[E]]
	(A) R	(B) S	(C) T	(D) D	ata Inadequat	e	(E) No	one of These	e
Di	rection (6 – 7	7): Read t	he following inform	ation c	arefully and a	answer	the qu	estions that	t follow:
6.	(iv) Kaila	sh, Govino	er and Jitendra are hod and Jitendra are an wing persons is neith	nbitious		umbitiou	ıs?	[C]
	(A) Kaila	ash	(B) Govind	(C) H	arinder	(D) Ra	ajesh	(E) None o	of These
7.	Which of	the follow	ving persons is neith	er hone	st nor hard-wo	orking b	ut is ar	nbitious?	[B]
	(A) Kaila	ash	(B) Govind	(C) R	ajesh	(D) Ha	arinder	(E) None o	of These
Di	(i) Seven (ii) No tw (iii) V alw (iv) P alw	n students vo students vays scores vays scores	the following informable P, Q, R, S, T, U and seget similar marks. In more than P. I more than Q. I more than Q.	V take	a series of test	S.			
			er R scores the hig	nest and	i i gets the	ieasi, o	uiteri	iddi very b	

If S is ranked sixth and Q is ranked fifth, which of the following can be true?

[**B**]

8.

	(A) V is ranked first of fourth		(B) R is ranked second or third				
	(C) P is ranked seco	ond or fifth	(D) U is rank	xed third or fo	ourth.		
	(E) T is ranked four	th or fifth.					
9.	If R gets most, V sh	If R gets most, V should be ranked not lower than:					
	(A) second	(B) third	(C) fourth	(D) fifth	(E) Sixth		
10.	If R is ranked secon	d and Q is ranked fit	fth, which of tl	ne following i	must be true?	[E]	
	(A) S is ranked third	d (B) T is rank	ked sixth	(C) P is rank	ted sixth		
	(D) V is ranked four	rth (E) U is rank	ked sixth.				
11.	1. If S is ranked second, which of the following can be true?						
	(A) U gets more that(D) P gets more that			(C) P gets m	ore than R		
12.	If V is ranked fifth,	which of the followi	ng must be tru	ie?		[E]	
	(A) S scores the hig(D) Q is ranked four			(C) T is rank	xed third.		
Six pl	tion (13 -17): Read to ays – A, B, C, D, E ale of the plays is to	E and F are to be st	aged, one on	each day fro	_		
(i) (ii) (iii) (iv (v)	C must not be staged B must be staged D must be staged	d a day before E. aged on Tuesday d on the day followin d on Friday only and aged on the last day	should not be	immediately	_	3.	
13.	Which of the follow	ring plays immediate	ely follows B?			[B]	
	(A) A	(B) C	(C) D	(D) E	(E) F		
14.	Which of the follow	ring plays is on Mon	day?			[A]	
	(A) E	(B) F	(C) C	(D) B	(E) A		
15.	Play D is between w	which of the following	g pairs of play	vs?		[C]	

	(A) B and E	(B) E and F	(C) A and E	(D) C and E	(E) C and F			
16.	Which of the follo	owing is the schedule	of play, with the	ne order of their stagi	ing from Monday? [E]			
	(A) E, A; B, F, D	, C (B) A, F, B	s, E, D, C					
	(C) A, F, B, C, D	, E (D) F, A, B	8, E, D, C	(E) None of these				
17.	Play C cannot det	finitely be staged on v	which of the fol	lowing days in additi	on to Tuesday? [C]			
	(A) Monday	(B) Wednesday	(C) Friday	(D) Thursday	(E) Saturday			
Direc	tion (18 – 21): Re	ad the following info	ormation and a	answer the question	s given below it:			
(i)	(i) Eight doctors P, Q, R, S, T, U, V and W visit a charitable dispensary every day except on a holiday i.e. Monday.							
(ii	(ii) Each doctor visits for one hour from Tuesday to Sunday except Saturday. The timings are 9							
(ii	a.m. to 1 p.m. and 2 p.m. to 6 p.m.; 1 p.m. to 2 p.m. is lunch break. (iii) On Saturday, it is open only in the morning i.e. 9 a.m. to 1 p.m. and each doctor visits for							
(iv	only half an h	our. or visits the dispensar	v before docto	r O and after doctor I	Ī			
(v)) Doctor W con	nes immediately after	lunch break ar	nd is followed by R.	J.			
(v:	i) S comes in the	e same order as P in the	he afternoon se	ssion.				
18.	Doctor P visits in	between which of the	e following pai	rs of doctors?	[A]			
	(A) S and V	(B) U and W	(C) R and W	(D) R and U	(E) None of these			
19.	At what time the	visit of doctor R is ov	ver on Sunday?		[E]			
	(A) 1 p.m.	(B) 3 p.m.	(C) 4 p.m.	(D) 5 p.m.	(E) None of these			
20.	At what time the	visit of Doctor T wou	ld be over on S	Saturday?	[B]			
	(A) 10 a.m.	(B) 11 a.m.	(C) Either 1	0 a.m. or 11 a.m				
	(D) Data inadequ	ate (E) None of these						
21.		and subsequent visit attend the dispensary?	_	educed by 15 minute	s, at what time Doctor [A]			
	(A) 3:15 p.m.	(B) 4 p.m.	(C) 4:15 p.n	n. (D) 4:45 p.n	a.			
	Direction (22 – 2 it:	25): Read the follow	ing informatio	on and answer the q	uestions given below			

A Sales representative plans to visit each of six companies M, N, P, Q, R and S exactly once during the course of one day. She is setting up her schedule for the day according to the following conditions:							
 (i) She must visit M before N and R. (ii) She must visit N before Q. (iii) The third company she visits must be P. 							
Which of	the following m	ust be true of t	he sales repre	sentative's	schedule?	[C]	
(A) She v	isits M before Q	. (B) S	he visits N be	fore R (C)) She visits	s P before M	
(D) She v	isits P before S.	(E) SI	he visits Q bet	fore R			
If the sale	s representative	visits S first, v	vhich compan	y must she	visit secon	nd? [B]	
(A) M	(B) N	(C) P	(D) Q	(E) R			
The sales	representative co	ould visit any	of the following	ng Compan	ies immed	iately after P exce	pt:
(A) S	(B) R	(C) Q	(D) N	(E) M		[D]	
If the sale Q:	es representative	visits Q imme	ediately before	e R and imr	nediately a	after S, she must v	'isit
(A) First	(B) Second	(C) Fourth	(D) Fifth	(E) Sixth			
		CHA	APTER – 1	8			
	NUMBE	ER RANKI	NG & TIM	IE SEQU	JENCE		
In a row or row?	of trees, one tree	e is fifth from	either end of	the row. H	low many	trees are there in [B]	the
(A) 8	(B) 9		(C) 10	(D)) 11		
In a queue, Amrita is 10 th from the front while Mukul is 25 th from behind and Mamta is just in the middle of the two. If there are 50 persons in the queue, what position does Mamta occupy from the front?							
(A) 20 th	(B) 1	9 th	(C) 18 th	(D)) 17 th		
	nks sixteenth fr re there in the cl	_	nd forty ninth	n from the	bottom in	a class. How ma	any
(A) 64	(B) 6	5 (C) 60	6 (D) C	Can't be dete	ermined	(E) None of Thes	e

22.

23.

24.

25.

1.

2.

3.

4.	Sanjeev ranks seve students are there in	nth from the top and the class?	d twenty eigh	t from the bo	ottom in a cla	ss. How many
	(A) 37	(B) 36	(C) 35	(D) 34	4	
5.		is twelfth from the ri	•	•		left, how many
	(A) 12	(B) 13	(C) 14	(D) 20	(E) none of t	these
6.		kteenth from the top ion. Six boys did not ere in the class?	•			•
	(A) 40	(B) 44	(C) 50	(D) 55	(E) 58	
7.	•	ng in a row. P is sit ur boys between P ar	_			
	(A) 25	(B) 23	(C) 21	(D) 19	(E) none of t	these
8.	Aruna ranks twelfth	in a class of forthy-s	six. What will	be her rank fr	om the last?	[A]
	(A) 33	(B) 34	(C) 35	(D) 37	(E) None of	these
9.		are ranked seventh a			•	n a class of 31
	(A) 20 th and 24 th	(B) 24 th and 20 th	(C) 25 th and 2	21 st (D) 26 th	and 22 nd (E)	None of these
10.	Ravi is 7 ranks ahe What is Ravi's rank	ead of Sumit in a classification the start?	ass of 39. If S	Sumit's rank i	is seventeenth	from the last.
	(A) 14 th	(B) 15 th	(C) 16 th	(D) 1 ²	7 th (E) 1′	7 th
11.		here girls are twice tad of Kamal, how ma	•			From the top. If [C]
	(A) 3	(B) 7	(C) 12	(D) 23	3 (E) 32	2
12.	•	s, when Rohit was sh That was his earlier p	•			pecame seventh
	(A) First	(B) Second	(C) Fourth	(D) S	ixth	

13.	is in between V	ijay and Jack. If		f Jack and there be	from the end, while Mary e 48 persons in the queue [B]
	(A) 8	(B) 7	(C) 6	(D) 5	(E) None of these
14.	from the left e	nd, respectively.	If they intercha	nge their places, F	right end and tenth place Rita and Mounika occupy , respectively. How many [B]
	(A) 25	(B) 26	(C) 27 (D) Data inadequate	(E) None of these
15.	_				enth from the right. If they low many girls are there in [E]
	(A) 25	(B) 27	(C) 29 (D) 32 (E) Non	ne of these
16.	while Geeta ren		epak's birthday f	-	May but before 28 th May ay but after 12 th May, Or [B]
	(A) 20th May	(B) 21 st May	$(C) 22^{nd}$	May (D) Can	anot be determined
	(E) None of the	se			
17.	December. Her	sister Natasha re	emembers that the	ir father's birthday	nth but before thirteenth of was definitely after ninth heir father's birthday? [D]
	(A) 10^{th} (E)	3) 11 th	(C) 12^{th} (D) Data inadequate	(E) None of these
18.	fifteen kilometr	es from there. Su there. If both of	unita knew that it	was more than two	en kilometres but less than elve but less then fourteer wing could be the distance [C]
	(A) 11 Km	(B) 12 Km	(C) 13 K	m (D) 14 l	Km (E) 15 Km
19.	minutes, they fi	nish their breakfa	ast in another 15 i	•	iches Kunal's house in 25 for their office which takes in their office? [B]
	(A) 7.40 a.m.	(B) 7.20 a.m	n. (C) 7.45	a.m. (D) 8.15	5 a.m. (E) 7.55 a.m.

20. Ajay left home for the bus stop 15 minutes earlier than usual. It takes 10 minutes to reach the stop. He reached the stop at 8.40 a.m. What time does he usually leave home for the bus stop[**B**]

	(A) 8.30 a.m	. (B) 8.	.45 p.m.	(C) 8.55 a.m	(D) Data inadequate (E) None of these		
21.		e third numbe		of the number	er which is exactly in the middle of the [B]		
	1234567	8924689	75319876	5 5 4 3 2 1			
	(A) 3	(B) 4	(C) 5	(D) 6	(E) 7		
22.	•	3's are there followed by 9		owing sequenc	te which are neither preceded by 6 nor [B]		
	9366395	9378916	39639				
	(A) One	(B) Two	(C) Three	(D) Four	(E) None of these		
23.		which is not y such 7's are	-	preceded by 5	but is immediately followed by either 2 or [B]		
	5726573	8373257	27348267	7 8			
	(A) One	(B) Two	(C) Three	(D) Four	(E) Five		
24.	How many 6's are there in the following series of numbers which are preceded by 7 but not immediately followed by 9? [D]						
	6795697	6878694	67769576	5 3			
	(A) One	(B) Two	(C) Three	(D) Four	(E) Five		
25.	•	7's are there in proceeded by		ng series whic	ch are not immediately followed by 3 but [C]		
	898762263269732872778737794						
	(A) 10	(B) 3	(C) 2	(D) 0	(E) None of these		
26.				of numbers th such 1's are th	at is immediately followed by 2, if 2 is not ere? [B]		
	1213451	2352126	1451124	12321752	1 2 5		
	(A) 2	(B) 4	(C) 5	(D)7	(E)9		
27.	How many 7 by 8?	's are there in	n the followin	ng series which	are preceded by 6 which is not preceded		

	(A) One	(B) Two	(C) Three	(D) Nil	(E) None of these			
28.	In the follow	ving list of nu	merals, how n	nany 2's are f	followed by 1's but not prec	eded by 4? [B]		
	421214211244412212144214212124146							
	(A) 2	(B) 4	(C) 5	(D) 3				
	Direction (follow:	29-30): Stud	y the numbe	er series giv	en below and answer the	questions that		
	7897653	34289724	5929764	7				
29.	How many '	7's are preced	led by 9 and fo	ollowed by 6?)	[A]		
	(A) 2	(B) 3	(C) 4	(D) 5	(E) None of these			
30.	Which figur	es have equal	frequency?			[D]		
	(A) 253	(B) 245	(C) 375	(D) 865	(E) None of these			
			СН	APTER –	19			
			(CLOCKS				
1.	At 3.40, the	hour hand an	d the minute h	and of a cloc	k form an angle of [C]]		
	(A) 120^0	(B) 1	125^{0}	(C) 130^{0}	(D) 135 ⁰			
2.	The angle between the minute hand and the hour hand of a clock when the time is 8.30 is [B]							
	(A) 80^{0}	(B) 7	75^{0}	(C) 60°	(D) 105^0			
3.	The angle be	etween the m	inute hand and	I the hour har	nd of a clock when the time	is 4.20 is [B]		
	(A) 0 ⁰	(B) 10)°	(C) 5 ⁰	(D) 20°			
4.	At what ang	le the hands o	of a clock are i	nclined at 15	minutes past 5?	[C]		
	(A) $58^{1/2}$ 0	(B) (54^{0}	(C) $67^{1/2}$ 0	(D) $72^{1/2}$ 0			
5.	The reflex a	ngle between	the hands of c	clock at 10:25	5 is	[D]		
	(A) 180°	(R) 1	1921/20	(C) 195^0	(D) 197 ^{1/2} 0			

6.	How many tim	es do the hands of a	clock coincide in a da	ay?	[C]
	(A) 20	(B) 21	(C) 22	(D) 24	
7.	How many tim	es in a day, the hand	s of a clock are straig	ht?	[A]
	(A) 22	(B) 24	(C) 44	(D) 48	
8.	How many tim	es are the hands of a	clock at right angles	in a day?	[C]
	(A) 22	(B) 24	(C) 44	(D) 48	
9.	How many tim (A) 20	es in a day are the ha (B) 22	ands of a clock in stra (C) 24	ight line but opposite (D) 48	e in direction? [B]
10.	A clock is start	ed at noon. By 10 m	inutes past 5, the hou	r hand has turned thr	ough [C]
	(A) 145^0	(B) 150°	(C) 155^0	(D) 160°	
			CHAPTER – 20 SYLLOGISM		
num at v	bered I and II. ariance from co	each question belo You have to take th mmonly known fa	SYLLOGISM ow are given two statements. Read the concluthe two given statements	ents to be true even usions and then de	if they seem to be ecide which of the
facts		siculty 10110 WS 11 OIII	the two given states	ments, distegurumg	commonly known
Give	answer (A) if on	ly conclusion I follo	ows:		
(B) i	f only conclusion	II follows:			
(C) i	f either I or II fol	lows;			
(D) i	f neither I nor II	follows and			
(E) i	f both I and II fol	low.			
1.	Statements: A	All planets are moons	S.		[D]

1.

All moons are stars.

		-	
		II. All planets are stars.	
2.	Statements:	All men are dogs.	[C]
		All dogs are cats.	
	Conclusions	:I. All men are cats.	
		II. All cats are men.	
3.	Statements :	All tubes are handles.	[B]
		All cups are handles.	
	Conclusions	: I. All cups are tubes.	
		II. Some handles are not cups.	
4.	Statements:	All bags are cakes.	[A]
		All lamps are cakes.	
	Conclusions	:I. Some lamps are bags.	
		II. No lamp is bag.	
5.	Statements:	All flowers are stems.	[E]
		All stems are roots.	
	Conclusions	:I. All roots are flowers.	
		II. All stems are flowers	
6.	Statements:	All puppets are dolls.	[B]
		All dolls are toys.	
	Conclusions	:I. Some toys are puppets.	
		II. All toys are puppets.	
7.	Statements:	All apples are oranges.	[A]
		Some oranges are papayas.	
	Conclusions	:I. Some apples are papayas.	
		II. Some papayas are apples.	

Conclusions: I. All moons are planets.

8.	Statements:	Some players are singers.	[C]
		All singers are tall.	
	Conclusions	I. Some players are tall.	
		II. All players are tall.	
9.	Statements:	All coins are crows.	[E]
		Some crows are pens.	
	Conclusions	I. No pen is coin.	
		II. Some coins are pens	
10.	Statements:	All men are married.	[B]
		Some men are educated	
	Conclusions	:I. Some married are educated.	
		II. Some educated are married.	
11.	Statements:	All cars are tables.	[D]
		Some children are tables.	
	Conclusions	:I. Some cars are children.	
		II. Some children are cars.	
12.	Statements:	All windows are needles.	[E]
		Some trees are windows.	
	Conclusions	:I. Some trees are needles	
		II. Some trees are not needles.	
13.	Statements:	Some dogs bark.	[A]
		All dogs bite.	
	Conclusions	I. Those dogs who do not bark, also bite.	
		II. Those dogs who do not bark, not necessarily bite	
14.	Statements:	Some fools are intelligent.	[B]
		Some intelligent are great.	

	Conclusions:	I. Some fools are great.		
		II. All great are intelligent.		
15.	Statements:	Some papers are files.		[C]
		Some files are pens.		
	Conclusions	I. Some files are not pens.		
		II. Some pens are papers.		
16.	Statements:	Some bottles are pencils.		[E]
		Some pencils are glasses.		
	Conclusions	I. No glass is bottle.		
		II. Some bottles are glasses.		
17.	Statements:	Some soldiers are famous.		[D]
		Some soldiers are intelligent.		
	Conclusions	I. Some soldiers are either famous or intelligent.		
		II. Some soldiers are neither famous nor intelligent.		
18.	Statements:	All boys are honest.	[A]	
		Sachin is honest.		
	Conclusions	I. Sachin is a boy.		
		II. All honest persons are boys.		
19.	Statements:	Lawyers married only fair girls.	[C]	
		Shobha is very fair.		
	Conclusions	I. Shobha was married to a lawyer.		
		II. Shobha was not married to a lawyer.		
20.	Statements:	Sohan is a good sportsman.	[B]	
		Sportsmen are healthy.		
	Conclusions	I. All healthy persons are sportsmen.		
		II. Sohan is healthy.		

21. **Statements:** All students in my class are intelligent [A]Rohit is not intelligent. **Conclusions:** I. Rohit is not a student of my class. II. Rohit must work hard. 22. **Statements:** All hill stations have a sun-set point. [**D**] X is a hill station. **Conclusions:** I. X has a sun-set point. II. Places other than hill stations do not have sun-set points. 23. **Statements:** Some sticks are bolts. [C] Kite is a stick. Conclusions: I. Some bolts are sticks. II. Some kites are bolts. 24. **Statements:** Some men are educated. [A]Educated person prefer small families **Conclusions:** I. All small families are educated. II. Some men prefer small families. 25. **Statements:** Some nurses are nuns. [**D**] Madhu is a nun. **Conclusions:** I. Some nuns are nurses. II. Some nurses are not nuns.

CHAPTER – 21

DATA SUFFICIENCY

Directions:

- 1. Choose A, If only statement I is sufficient to answer the question
- 2. Choose B, If only statement II is sufficient to answer the question
- 3. Choose C, If either of the statement is requited to the answer the question

	4.5.	Choose D, If both statements are not sufficient to answer the question Choose E, If both the statements are required to answer the question	
1.		What is Reena's rank in the class?	[D]
		I. There are 26 students in the class.	
		II. There are 9 students who have scored less than Reena.	
2.		Who is the father of M?	[C]
		I. A and B are brothers.	
		II. B's W if e is sister of M's wife.	
3.		What day is the fourteenth of a given month?	[A]
		I. The last day of the month is a Wednesday.	
		II. The third Saturday of the month was seventeenth	
4.		Among four friends A, B, C and D, who is the heaviest?	[B]
		I. B is heavier than A, but lighter than D.	
		II. C is lighter than B	
5.		It is 8.00 p.m., when can Hemant get next bus for Ramnagar from Dhanpur?	[A]
		I. Buses for Ramnagar leave after every 30 minutes, till 10 p.m.	
		II. Fifteen minutes ago, one bus has left for Ramnagar	
6.		What is the colour of the fresh grass?	[D]
		I. Blue is called green, red is called orange, Orange is called yellow.	
		II. Yellow is called white, white is called black, green is called brown and brown in	s called purple
7.		When is Manohar's birthday this year?	[C]
		I. It is between January 13 and 15, January 13 being Wednesday.	
		II. It is not on Friday.	
8.		On which day the flat was purchased by Rohan in 1996?	[B]
		I. Certainly before 18 th December, 1996 but definitely not before 15 th December, 1	1996.
		II. Certainly after 16th December, 1996 but not later than 19th December, 1996.	

9.	Is Arun taller than Sachin?	[C]
	I. Dinesh is of the same height as Arun and Sachin.	
	II. Sachin is not shorter than Dinesh.	
10.	Buses are always punctual in city X. How long, at the most, will Mr. I bus?	Roy have to wait for the [D]
	I. Mr. Roy has come to the bus stand at 9 A.M.	
	II. There is a bus at 10 A.M. and possibly another bus even earlier.	
11.	The Chairman of a big company visits one department on Monday of ex Monday of third week of every month. When did he visit the Purchase de	•
	I. He visited Accounts department in the second week of Septemb Purchase department on the earlier occasion.	per after having visited
	II. He had visited Purchase department immediately after visiting Store visiting Accounts department.	es department but before
12.	How is D related to A?	[A]
	I. B is the brother of A.	
	II. B is D's son.	
13.	Gaurav ranks eighteenth in a class. What is his rank from the last?	[B]
	I. There are 47 students in the class.	
	II. Jatin who ranks 10 th in the same class, ranks 38 th from the last.	
14.	How many brothers does Tarun have?	[C]
	I. Tarun's father has three children.	
	II. Tarun has two sisters.	
15.	Vipin's and Javed's salaries are in the proportion of 4: 3 respectively. W	/hat is Vipin's salary?
	I. Javed s salary in 75% that of Vipin's salary.	[E]
	II. Javed's Salary is Rs 4500.	
16.	A, B, C, D and E are sitting in a row. B is between A and E. Who among	g them is in the middle?
	I. A is left of B and right of D.	[D]
	II. C is at the right end.	

17.	How many gift b	[A]	[A]						
	I. It was 10% more than the boxes sold on the earlier day i.e. Sunday.								
	II. Every third v	isitor to the shop p	ourchased the box and 15	00 visitors we	re there on Sur	nday.			
18.	In a code 'lee pe	e tin' means' alwa	ays keep smiling'. What	is the code for	'Smiling'?	[B]			
	I. 'tin lut lee' me	eans 'Always keep	left'.						
	II. 'dee pee' mea	ans 'Rose smiling'							
19.	How many visite	ors saw the exhibi	tion yesterday?		[C]				
	I. Each entry pas	ss holder can take	up to three persons with	him/her					
	II. In all, 243 passes were sold yesterday.								
20.	Among five frie	nds who is the tall	est?		[D]				
	I. D is taller than A and C.								
	II. B is shorter th	nan E but taller tha	an D.						
			CHAPTER – 22						
		C	RYPTOGRAPHY						
1.	What would be t		[A]						
	(A) 1	(B) 2	(C) 0	(D) 3					
2.	What would be t	the value of 'A' w	here $A + B = 3$		[D]				
	(A) 1	(B) 2	(C) 6	(D) either	1 or 2				
3.	Find out which i	number stands for	AB in the following oper	ration:	[D]				
	AB + 56 = 98								
	(A) 12	(B) 22	(C) 48	(D) 42					
4.	'MN' is the repr	esentation for? 26	X MN = 312		[B]				
	(A) 18	(B) 12	(C) 17	(D) 14					
5.	What does ABC	stands for? A B C	C + 34 A = 576		[A]				

Direction (6-12): In the following multiplication, each of the letters denote a different integer. Each letter stands for the same integer throughout where 'A' stands for '2' and 'E' stands for '6'.

(A B A x C A) = (D A D x E C E X) = E F G D

6. What is the value of C?

[**B**]

(A) 4

(B) 2

(C) 3

(D) 6

7. What is the value of F?

[**B**]

(A) 9

(B) 8

(C) 3

(D)7

8. What is the sum total of BAD?

[**A**]

(A) 16

(B) 14

(C) 7

(D)9

9. Which of the following number stand for CAB?

[**C**]

(A) 467

(B) 324

(C) 627

(D) 321

10. Which of the following number stand for DEAF?

[**B**]

(A) 6784

(B) 4627

(C) 3247

(D) 3216

11. What is the value of $B^2 \times D^3$

[**D**]

(A) 16

(B) 64

(C) 8

(D) 256

12. What is the final product?

[**B**]

(A) 4624

(B) 6364

(C) 6784

(D) 4246