MENTAL ABILITY ASSIGNMENT No:1

Coding and Decoding Introduction

Coding refers to a secretive language which is used to change the representation of the actual term/ word/ value/ number / letter. In attempting questions on coding, one needs to decode the given code and then apply it to the asked part.

Solved Examples

Q1. If ZXV stands for ACE. What will YZW stand for?

so (d) is the answer.

Q2. If BAD in a certain language is code as 514,GIVE as 3068 and FOR as 729,then how will VIDEO be written?

d) 60487

a) 60482 b)03482 c) 30214 Explanation :- B A D GIVE FOR 5 1 4 3068 729

VIDEO: 60482

So, the answer is (d) 60487

MENTAL ABILITY ASSIGNMENT No:1 LEVEL: I

1.) If CHA	AIR is coded as FKDI	U then RAID is coded	as
a) ULGD	b) ULKG	c) ULDG	d) UDLG
2.) In a certain code PORT written in the same code a		s ESEGUTROP, MALA	YALAM will be
		c) MALAYALM	d)
3) If 'W' is coded as 'a', '			written.
a) wnsaes 4) in a certain code PUNG will be written as –	b) anvaew CTUAL is witten as 1		d) wnvaes de ACTUPLN
	b) 29861635	c)29816135	d)29851536
5) If "light" is called "da is called "red", "red" is ca blood?			
a) Red	b) Dark	c) White	d) Yellow
6) If "engineers" are " car "cobblers", "cobblers" are "jewelers" and "jewelers"	"doctors", "doctors' are "robbers", who c	', "doctors" are " authorures the sick people?	rs", authors" are
a) jewelers	b) painters	c)authors	d) doctors
Letters \rightarrow M E Then, correct code for	4 1 0 8 3 7 5 N H V F I W L	9 X	
I) 435216 a) HILMNE	b) NILMHE	c) VFLMNE	d) NILHME
II) 897615 a) FXWEHL	b) VXLENH	c) FXLWHE	d) VXELHI
III) 146738 a) HNEIWF	b) HNWEIF	c) HENWIF	d) HNEWIF
IV) 092863 a) VXMFEI	b)VXMIFE	c)VXMIEF	d)VXFMEI
V) 702439 a) LVMIEX	b) INEMHV	c) WVMNIX	d) VWNMEX

MENTAL ABILITY ASSIGNMENT No:2 Calender, Clock, Time and Distance Introduction

LEVEL: I

These are mathematical problem based on calculations of time by a clock or calendar and computations speed or distance.

		Solved Example 1		
Q) If day – afte	r – Tomorrow is	Sunday , what v	vas day – before -	- yesterday ?
a) Wednesda	b)	Γhursday	c) Friday	d) Saturday
Explanation:		\		
	yesterday → Thursda		esday	
Today		iy Filday		
Tomorrow	•			
	row	→ Sunday		
So the answer is	(a) Wednesday			
Q) How many ti	mes in 12 hours,	the hands of the	e clock will be at	right angles ?
a) 12	b) 16	c) 18	d) 24	
Explanation:- In every hour the	e hands are at rig	ht angles twice	so, the answer is	(d) 24.
211 0 (01) 110 011 U1		and amagaes and according	50, 1110 1115 01 15	(4) =
Q) If a train run minutes will be	s at a speed of 92	.7 Km/hr, The	en the distance co	vered in meters in 20
a) 3009	b) 309	c) 3090	d) 309	900

Explanation :-

Speed of train =92.7 km/hr.

Train travels 92700 m in 60 minutes. In 20 minutes distance traveled will be

$$\frac{92700}{603}$$
 x $\frac{20}{3}$ = 30900 Km

So, the answer is (d) 30900 m.

ASSIGNMENT NO: 2 LEVEL: I

1. If day before yesterday was Thursday when will Sunday be ?					
	a) Tomorrow after Today's	b) Day after tomorro	w c) Today	d) Two day	
2.	If the 7 th day of a m 19 th day of the mon	nonth is 3 days earlier to	han Friday. What day	will it be on the	
	a) Sunday	b) Monday	c) Wednesday	d) Friday	
3.	-	er than his wife and 4 to yrs after 3 yrs . What			
	a) 60 yrs	b) 51yrs	c) 48yrs	d) 45 yrs	
4.	A clock is so placed that at 12 noon. Is minute hand points towards North East. In which direction does its hour hand point at 1:30 pm?				
	a) East	b) West	c) North	d) South	
5.		r the bus stop 15 minu the stop. He reached to e bus stop?			
	a) 8:30 am	b) 8:55 am	c) 8:45 pm	d) 9:00 am	
6.	Manu went to the n What day of the we	novie nine days ago. S eek is today ?	he goes to movies only	on Thrusdays.	
	a) Sunday	b) Tuesday	c) Thursday	d) Saturday	
7.	4 hours , sightseeinFrom Monday leaves alterna	ny operates 7 buses M, g tours. y to Friday 1 st bus leav tely after a gap of 45 min. and so on .	es at 8:00 am sharp, s	ubsequent bus	

after a gap of 1 hour. • Bus Q leaves immediately after M. and is immediately follower by S.

• On Saturday and Sunday 1st bus leaves at 7:30 am others follows regularly

- Bus O is not followed by any other bus.
- Bus R leaves immediately before M. but not immediately after P.

	I. At wh	at time bus M l	eaves on Saturo	day?		
	a) 10 :	00 am	b) 9:45 am		c) 10 :30 am	d) 8
	II. On Su begin its t	•	P completes its	s tour, w	which of the following	buses
	a) Q	ours :	b) S		c) O	d) M
	For the su a) 3:00 pm. MEN	bsequent trips in the property of the property	at what time too b) 2: 00 pm	ır of bus <u>IGNN</u>	nd sun. is increased by s O will be completed c) 6:00 pm MENT No:3	
	<u>A</u>	<u>KKANGIN</u>	IG LETTE LEVEL: I	<u>K/N</u>	<u>UMBER</u>	
seven and 1. Which a)] 2. Which a)]	last six lett n letter will R n letter will R	ter then, be tenth letter b) E be sixth letter b) E	NESS' is re-wr towards right? C) T from end towar c) S	d) S ds left ? d) N	reserving the order of	first
a) '	Γ	b) E	c) S	d) Non	ne	
Q2. 696	996676	97966977	9667			
1.How 1 a) 2	•	e sandwitched l b) 3	c) 4	7 ? d) 1		
2. How a)	•	re sandwitched b) 2	between 9s?	d) 4		
3. How i	•	ve a 6 before a b) 2	nd after ? c) 3	d) 4		
_					ON' are reversed, then and added then.	last
1. Which a) H	ı letter will	be exactly in t b) R	he middle ? c) S	d) N		

2. Which a) S	letter will	be fifth from th b) R	e end?	d) E
				LESSNESS' are reversed, next six ng letters are reversed,
1. Which a) F	ch letter wi	ll be exactly in b) U	the middle ? c) L:	d) T
2. Whic a) NS		rs will be sandw b) FE	vitched between c) FU	n double T and double L? d) HT
3. If all a) T	vowels are	removed which b) L	n letter will be o	exactly in the middle ? d) None
Q5. Ser	ies m n m r	n n m m n m n r	n m m u u m n	m n n m m m n
1. Ho	w many m'	s are preceded l	•	•
a) 1		b) 2	c) 3	d) 4
	v many n's	are preceded ar	•	
a) 1		b) 2	c) None	d) 3
3. How a) 1	many m's	are preceded and b) 2	nd followed by c) 3	m ? d) 4
	cdef	ghilkjm	-	u v w x y z
a) rt		re wrongly plac b) vu/jl		d) jl/rq
2. How a) 5	many letter	rs are missing a b) 3	nd how many r c) 2	repeated ? d) None
Q7. Seque P M		ROPQRE	S O T A P	QEOAPAPAQEO
1. If al a) Q	l vowels ar	e eliminated wh b) P	nich letter will (c) R	come exactly in the centre ? d) T
2. Which a) T	ch consona	nt has maximur b) Q	n vowels prece c) R	ding it ? d) P
3. How a) 1	many P's a	there which b) 2	are preceded by c) 3	y vowels but not followed by vowel d) 4

4. Which co a) PMR		equal frequency SQ c) MS		P.R	
MENTAL ABILITY ASSIGNMENT No: 4					
	<u>A</u>	RRANGIN		<u>DER</u>	
			oduction VEL: I		
• •	-	arrangement of	given options i	is done on the basis of either ascending or descending	
		Solved	Example		
I) What will dictionary?	come in the se	cond place if th	e following wo	ords are arranged according to	
* Reason	* Retina	* Regard	* Ransom	* Ration	
a) Retina	b) Ration	c) Regard	d) Ransom		
_	: - Arrangemer on, Reason, Ro	nt according to degard, Retina	lictionary is as t	follows	
So, the answ	er is (b)				
		a meaningful o verse * Tiru		rld * India	
a) 15324	b) 41532	c) 54213	d) 34125		
_	: - Tirupathi is longs to the un		lesh that is in In	ndia. India is a part of the	
	b) De		•	anged in the dictionary order ? d) Demean	
_	a meaningful of Door 3) Loc b) 42	k 4)Room 5)	Switch on . c) 13245	d) 12354	
3. Which will be the third word in sequence. If the following words are arranged according to the dictionary order?					
a) Amphibi		norphous	c) Ambiguous	d) Amphidextrous	
-	a meaningful oction, 2) Illnes	order. ss, 3)Doctor, 4) Treatment, 5)	Recovery	

a) 43125	b)23415	c)51432	d)23145
5. In a telephora) Randhir	ne directory, which na b) Ramesh	ume would appear in the la c) Randesh	st ? d) Remmurthi
_	n meaningful order - , 2) Walls , 3) Floor , 4 b) 435621	4)Foundation , 5) Roof, 6) c) 453216	Room. d) 415623
7) If arranged a) Spastically	~	y , what will come second c) Spasticity	from the last ? d) Spasmodical
8) Which wou a) Noon	ald be second in the na b) Dusk	ntural order sequence c) Evening	d) Dawn
9) Give the nat	tural order of the follo 2) sky Scraper	wing in the descending sec 3) Palace 4) Room	•
a) 23154	b)41532	c)23514	d) 32541
,	2) Bus 3)Cyc	the natural order of speed 'le 4) Aeroplane c)32541	? 5)Train d)31425
,	,	, -	,

MENTAL ABILITY ASSIGNMENT No: 5

ANALOGY

Introduction LEVEL: I

Analogies are about relationships between words letters or numbers. In questions pertaining to analogy, the first step is to identify the type of relationship between the given pair and then apply it to the other.

Solved Examples:			
 " Mania" is to " Craz Desires 	e" as " Phobia" is to b) Hobbies	 c) Want	d) Fear
•	synonyms so (d) Fear is	,	2, 7, 2 2
The related words are	Synonyms so (a) I can is	the answer.	
II. Malaria : Mosquito : a) Rat	: Plague : b) Squirrels	c) Cat	d) Dog
Malaria is caused by r	nosquito and similarly Pla	ague is caused by Rat so	(a) is the answer.
III. NATION : ANITNO : : I	HUNGRY:		
a) Hungry		C) YRNGUH	D) UHGNYR
In the given set, the w	ord is divided in sections	of two letters and the lett	ers are reversed,
NA TI ON: AN IT	NO HU	NG RY: UH GN YR	
1) Stammering is to s	peech as deafness is to		
a) Ear	b) Hearing	c) Noise	d) Silence
2) Secretive is to open	as snide is to		
a) Forthright		c) Outcome	d) Forward
3) Ride : Horse : : Smo	oke :		
a) Chimney		c) Pipe	d) Ashes
4) Chef: Kitchen::			
		c) Admiral : Navy	d) Beer : Brewer
5) Good : Bad : : Virtue	e :		
a) Blame		c) Despair	d) Vice
6) Wool is to sheep as	s silk is to		
a) Saree		c) Silkworm	d) Moth
7) Mother is to Matern	al as Father is to		
a) External		c) Paternal	d) Sentimental

8) Chalk : Blackboard : a) Door : Handle	: b) Table : Chair	c) Ink : Paper	d) Type : Paint
9) GFC: CFG : : RPJ :_ a) JRP		c) PJR	d) RJP
10) BCF : DEG : : MNC a) OPR	b) PQS	c) OPP	d) QRT
11) 18 is to 27 as 22 is a) 42	to b) 39	c) 33	d) 54
12) 8: 27 : : 64 : a) 277	b) 125	c) 250	d) 99
13) 1/7 :1/14 : : 1/9 : a) 1/88	b) 1/80	c) 1/81	d) 1/18
14) 99:76 : : 24 : a) 1	b) 13	c) 9	d) 7
15) 65 : 13 : : 180 : a) 93	b) 36	c) 133	d) 102

MENTAL ABILITY ASSIGNMENT No: 6

Blood Relationship LEVEL: I

While attempting questions on blood relations, one should be clear of all relationship patterns that can exist between any two individuals. In such cases, drawing an arrow diagram to depict the relations is always helpful. Some of the common relations that feature in these questions are as follows:-

Father's father - Pater	nal Grandfather					
Mother's father - Mate	rnal Grand father	-				
Father's Mother - Paternal Grandmother						
Mother's Mother - Mat	ernal Grand moth	ner				
Father's/ Mother's Son						
Father's / Mother's Da	ughter – Sister					
Father's Brother - Pate	•					
Father's Sister – Pater						
Mother's Brother – Ma	,					
Mother's Sister - Mate						
Uncle / Anut's Son / Da	,					
Son's Wife - Daughter	•					
Daughter' Husband – S						
Husband/ Wife's Broth		aw				
Husband / Wife's Siste						
Brother's wife - Sister-						
Sister's Husband - Bro						
Brother's Son - Nephe	.₩					
Brother's Daughter - N						
3						
1) A is the father of B a	and C. But C is no	ot the son of A. What is C	C's relation to A?			
a) Daughter	b) Son	c) Niece	d) Nephew			
			•			
2) Ravi is the brother of	of Amit's Son's So	on. What is the relation of	f Amit to Ravi ?			
a) Cousin	b) Father	c) Grand father	d) son			
3) Introducing Lily, Ra	ghav said – " Hei	r father is my mother's or	nly son ". How is Lily related to			
Raghav .						
a) Aunt	b) Daughter	c) Mother	d) Sister			
4) Ajay is the brother of	of Vijay. Mili is the	sister of Ajay. Sanjay is	the brother Rahul. Mehul is the			
daughter of Vijay. Who) is Sanjay's Uncl	e?				
a) Rahul	b) Ajay	c) Mehul	d) None			
			E is son of A. who is D's uncle?			
a) D	b) E	c) B	d) C			

6) Varun said pointing to Varun?	owards Arun – " I	He is my sister's only bro	ther's Son/ ". How is Arun related	
a) Son	b) Brother	c) Nephew	d) None	
7) A man said to a lady related to Rohini.	" Rohini's mothe	r is the only daughter of y	our father". How is the lady	
a) Daughter	b) Sister	c) Wife	d) Mother	
8) Pointing to a man , a woman said "He is the only son of my mother's Mother." He is the woman related to the man?				
a) Aunt	b) Daughter	c) Niece	d) Sister	
9) If B's mother was A's	mother's daught	ter. How was A related to	B?	
a) Aunt	b) Uncle		d) Either (a) or (b)	
	0		aw and woman's mother – in –	
a) Father	ignter respectivei b) Father –in –la	y Man is the aw c) Uncle		