"AME TEST" TOPICS

- This material gives a brief overview of "AME TEST" topics for reference
- Please go through the content along with Sample Questions

PLEASE UNDERSTAND

- WE WILL NOT EVALUATE Student's Academic Performance/ English/ Communication Skills/ Technical Skills/ Previous Experience (If Any) in the Test and Selection Process
- Through the Entrance Test and Selection Process, we try to understand Student's Interest, Seriousness and Zeal to learn new things
- Names, Locations, Identifications, Numbers etc which are used throughout this document are fictious and do not represent anyone in specific. By going through this Sample Questions, students get an idea on what kind of questions will be asked in our Practice Test & Final Test

EXAM TOPICS

S.NO.	TOPICS	ABOUT
1	BLOOD RELATIONS	Questions on relationship between people by birth
2	TIME & DISTANCE	Questions on relationship between Time, Distance & Speed
3	PERCENTAGE	Questions on fraction of number or an amount per hundred
4	AGES	Questions on ages & comparison between two persons' age
5	TIME & WORK	Questions on relationship between Time & Work
6	PROFIT & LOSS	Questions on total loss or profit occurred in a particular transaction
7	NUMBER SYSTEMS	Questions on Prime Numbers, Even Numbers, Odd Numbers and other basic Number Systems
8	CALENDARS	Questions on Date, Week, Month and Number of days between 2 specific dates.
9	DIRECTIONS	Questions on Directions such as East, West, North, South and their combinations for Navigation
10	LETTER SERIES	Questions on alphabetic system of writing
11	NUMBER SERIES	Questions on series of Numbers like Natural Numbers, Prime Numbers, Even Numbers, Odd Numbers and other Number Series
12	CODING & DECODING	Questions on arrangement of Numbers/Symbols/Letters etc
13	ANALOGY	Questions on comparison between two different things for explaining purpose
14	CUBES & DICE	Questions on formation of cubes or blocks in a given figure

EXAM TOPICS DETAILS WITH SAMPLE QUESTIONS ARE IN THE FURTHER PAGES

About "Blood Relations"

To solve these questions, we should know the relation between two persons by using the information given

RELATIONSHIPS		
S.NO.	**WORD/ CRITERIA**	**MEANING/ DESCRIPTION**
1	Mother's or Father's father	Grandfather(Maternal grandfather/Paternal grandfather)
2	Mother's or Father's mother	Grandmother(Maternal grandmother/Paternal grandmother)
3	Mother's or Father's brother	Uncle
4	Mother's or Father's Sister	Aunt
5	Wife's father or husband's father	Father-in-law
6	Wife's mother or husband's mother	Mother-in-law
7	Son's Wife	Daughter-in-law
8	Daughter's Husband	Son-in-law
9	Husband's or wife's brother	Brother-in-law
10	Husband's or wife's sister	Sister-in-law
11	Brother's or sister's son	Nephew
12	Brother's or sister's daughter	Niece
13	Uncle's or Aunt's son or daughter	Cousin or First Cousin
14	Son or daughter of the first cousin	Second Cousin
15	Grand father's daughter-in-law	Mother
16	Father's Son	Brother
17	Grand Father's Son	Father/Uncle
18	Grand father's only son	Father
19	Grand mother's only son	Father

"Blood Relations" Sample Questions

1. Showing a person in a cabin, Ramya said, "He is the brother of the daughter of my husband." How is the person in cabin related to Ramya?

   (a) Son (b) Husband (c) Cousin (d) Nephew

   Correct Answer: (a)

   Explanation:

   - ***Ramys'a Husband's daughter is Ramya's daughter***
   - ***Ramya's daughter's brother is Ramya's Son***
   - ***So, the relation between Ramya & person in cabin is Mother & Son relationship***
   - ***So, the answer is (a)***

2. Pointing to Tilak, Keerthi said "His mother is the only daughter of my mother's only son" How is Keerthi related to Tilak?

   (a) Mother (b) Daughter (c) Sister (d) Grand Mother

   Correct Answer: (d)

   Explanation:

   - ***Tilak's mother is only daughter of Keerthi's only son***
   - ***So, Keerthi's son's daughter is Tilak's mother***
   - ***Hence, Keerthi is the grandmother of Tilak***
   - ***So, the answer is (d)***

3. X is the son of Y. Z is the son of P. X is married to Q. Q is P's daughter. How is Z related to X?

   (a) Brother (b) Father (c) Father-In-Law (d) Brother-In-Law

   Correct Answer: (d)

   Explanation:

   - ***X married Q, who is the daughter of P***
   - ***So, X is Son-in-law for P***
   - ***Z is the son of P***
   - ***X married Q, who is the sister of Z***
   - ***So, X is the Brother-In-law of Z***
   - ***So, the answer is (d)***

About "Time & Distance"

S.NO.	CRITERIA	FORMULA
1	Speed	Distance / Time
2	Distance	Speed X Time
3	Time	Distance / Speed
4	Average Speed	Total Distance Travelled / Total Time Taken

- KM = Kilometers
- KMPH = Kilometers Per Hour

"Time & Distance" Sample Questions

1. A train is moving at 50 KMPH. It has to travel a distance of 1,00,000 Meters. How many hours does it take to reach the destination?
   (a) 2,000 Hours (b) 200 Hours (c) 20 Hours (d) 2 Hours

   Correct Answer: (d)

   Explanation:
   - ***Train has to travel a distance of 1,00,000 meters***
   - ***One Kilometer is equal to 1,000 meters. So, 1,00,000 meters is equal to 1,00,000 /1000 = 100 KM***
   - ***Train is moving at 50 KM per hour, which is the speed***
   - ***Distance is 100 KM***
   - ***As per formula, Time = Distance/Speed***
   - ***So, Time = 100 KM/50 KMPH. Which implies 100/50 = 2 Hours***
   - ***So, it takes 2 hours to cover a distance of 100 KM***
   - ***So, the answer is (d)***

2. A car is moving at a speed of 1,000 Meters Per minute. How many kilometers does it travel in 60 seconds?
   (a) 1 KM (b) 60 KM (c) 30 KM (d) 20 KM

   Correct Answer: (a)
   Explanation:
   - ***Car is moving at a speed of 1,000 Meters Per Minute***
   - ***1,000 meters is equal to 1 KM***
   - ***Hence, the car is moving at 1 KM Per Minute. So, Speed is 1 KM Per Minute***
   - ***One minute is 60 seconds. So, Time is 1 Minute***
   - ***According the formula, Distance = Speed X Time, 1 KM Per Minute X 1 Minute = 1 KM***
   - ***So, car can travel at a speed of 1 KM in 60 seconds***
   - ***So, the answer is (a)***

3. A man can run at a speed of 2 KM per hour. With what speed he has to run in order to cover a distance of 4,000 Meters in 120 Minutes?

(a) 1 KMPH (b) 2 KMPH (c) 3 KMPH (d) 4 KMPH

Correct Answer: (b)

Explanation:

- ***Distance to be covered is 4,000 Meters, which is equal to 4 KM (As 1 KM is equal to 1,000 Meters)***
- ***Time is 120 Minutes, which is equal to 2 Hours (As 1 Hour is equal to 60 Minutes)***
- ***According to the formula, Speed = Distance/Time, 4 KM/2 Hours = 2 KMPH***
- ***So, the answer is (b)***

About "Percentages"

S.NO.	CRITERIA	FORMULA
1	If salary of a person increases by R%, then the actual salary of the person with increased percentage is	(Current Salary) + (Current Salary X R %)
2	If the price of an item decreases by Z%, then the actual price after deduction is	(Current Price) - (Current Price X Z %)

"Percentages" Sample Questions

1. Ram joined a company in 2016 and got 100% Salary hike in 2017. He got another 100% Salary Hike in 2018. Now, Ram's salary is INR 1,00,000 Per Month. What is Ram's salary Per Month in 2016 before the 1st Salary hike in 2017?

   (a) INR 25,000 (b) INR 50,000 (c) INR 75,000 (d) INR 2,00,000

   Correct Answer: (a)

   Explanation:
   - ***Ram's current salary is INR 1,00,000***
   - ***As he got 100% Salary hike in 2018, his salary before hike is 50% of Current Salary. So, its 50% multiplied by 1,00,000 = 50% X 1,00,000 = INR 50,000***
   - ***Similarly, as Ram got 100% Salary hike in 2017, his salary before hike s 50% of INR 50,000. So, its 50% multiplied by 50,000 = 50% X 50,000 = INR 25,000***
   - ***So, the answer is (a)***

2. Due to recession, Tom got 30% reduction in his Salary. Tom's salary is INR 50,000 Per Month before salary reduction. However, Tom got shifted to a new role where he will be paid INR 15,000 as additional allowances (other than Salary). How much amount Tom will earn now including Salary plus additional allowances in new role?

   (a) INR 35,000 (b) INR 50,000 (c) INR 65,000 (d) INR 50,000

   Correct Answer: (b)

   Explanation:
   - ***Tom's salary before reduction is INR 50,000. With 15% reduction, it will be (50,000)-(15%*50,000) = INR 35,000***
   - ***In his new role, Tom is paid additional allowances as 15,000 per month***
   - ***Every month, Tom will be paid a total of 35,000 + 15,000 = INR 50,000 per month***
   - ***So, the answer is (b)***

3. A furniture set worth INR 3,55,000 Price is discounted at 43% as a festival offer. However, an additional charge of INR 10,000 is collected as Transport charges and INR 5,000 as Handling charges for each furniture set. John has negotiated an additional discount of 7% by purchasing 2 furniture sets. How much total amount John has to pay?

   (a) INR 2,55,000 (b) INR 3,07,500 (c) INR 2,07,000 (d) None of these options

   Correct Answer: (d)

   Explanation:

   - ***Festival offer discount on furniture set is 43%***
   - ***Additional discount John got on each furniture set is 7%***
   - ***Total discount John got on each furniture set is 43% + 7% = 50%***
   - ***So, amount per Furniture Set is (3,55,000) – (3,55,000*50%) = 1,77,500***
   - ***Per furniture set, there are additional 10,000 + 5,000 = INR 15,000 as Transport & Handling charges***
   - ***For 2 furniture sets, Transport & Handling charges is 15,000 X 2 = INR 30,000***
   - ***Total amount to be paid is 1,77,500 + 30,000 = INR 2,07,500***
   - ***None of these options are correct***
   - ***So, the answer is (d)***

About "Ages"

1	If the present age of Ram is x years, then n years ago, age of Ram was (x – n) years. After n years, hence, the age of Ram will be (x + n) years
2	If present age of Ram and Shyam are x years and y years respectively, then n years ago, ages of Ram and Shyam were (x – n) years and (y – n) years respectively. After n years, hence, ages of Ram and Shyam will be (x + n) years and (y + n) years respectively
3	In general, the problem solving starts by assuming the present age of one person be x years

"Ages" Sample Questions

1. Jimmy has a son by name Ronny. Ronny is 15 years now. What was Ronny's age 1 year before and what will be Ronny's age after 50 years respectively?

   (a) (14,65) (b) (14,50) (c) (1,65) (d) None of these options

   Correct Answer: (a)

   Explanation:
   - ***Ronny current age is 15***
   - ***One year before, Ronny's age is (15-1) = 14 Years***
   - ***After 50 years, Ronny's age will be (15+50) = 65 Years***
   - ***Hence, (14, 65) is the correct placement***
   - ***So, the answer is (a)***

2. Ram's current age is 25 years. Shyam's current age is 25 years. 10 years before, Ram's age was 15 years and Radhe's age was 15 years. Is this statement correct or wrong?

   (a) Yes (b) No (c) Sometimes (d) Not enough information

   Correct Answer: (d)

   Explanation:
   - ***Ram's current age and 10 years before age is given in statement***
   - ***However, Radhe's current age is not given in above statement***
   - ***As there is no enough information, we cannot come to a conclusion***
   - ***So, the answer is (d)***

3. 50 years old Tom's father married a woman who is of same age as Tom's father. Tom & Jerry are close friends from 10 years. Tom is 25 years old and Jerry is 20 years old. What is Tom's mother's age when Tom & Jerry's friendship started?

   (a) 20 (b) 30 (c) 40 (d) None of these options

   Correct Answer: (c)

   Explanation:
   - ***Tom's father is 50 years old and Tom's wife is also 50 years old as per above statement***
   - ***Tom & Jerry's friendship started 10 years before***
   - ***So, Tom's mother age 10 years before is 50-10 = 40 Years***
   - ***So, the answer is (c)***

About "Time & Work"
Work done is measured by number of days

"Time & Work" Sample Questions

1. Ram can finish a task in 10 days. Shyam can finish the same task in 20 days. In how many days Tilak can do the same work?

   (a) 10 Days (b) 20 Days (c) 30 Days (d) Not Enough Information

   Correct Answer: (d)

   Explanation:
   - ***There is no enough information about Tilak's capacity to do work***
   - ***As there is no enough information, we cannot come to a conclusion on Tilak's time for same work***
   - ***So, the answer is (d)***

2. Ram can finish a work in 30 days. Ram's pay per day is INR 200. Shyam can finish the same work in 60 days. Shyam's pay is INR 200. Together Ram & Shyam work for 30 days. What is the total amount they both get paid for in 30 days?

   (a) INR 12,000 (b) INR 6,000 (c) INR 9,000 (d) INR 24,000

   Correct Answer: (a)

   Explanation:
   - ***Ram worked for 30 days and per day, his pay is INR 200 per day. Total pay for Ram for 30 days is 30 X 200 = INR 6,000***
   - ***Shyam worked for 30 days and per day, his pay is INR 200 per day. Total pay for Shyam for 30 days is 30 X 200 = INR 6,000***
   - ***Total pay for Ram & Shyam for 30 days is 6,000 + 6,000 = INR 12,000***
   - ***So, the answer is (a)***

3. Khayyum can finish a work in 10 days and Khan can do the same work in 20 days. Khan has worked for 5 days and left the job. In how many days, Khayyum alone can finish the remaining work?

   (a) 2 (b) 8 (c) 9 (d) 10

   Correct Answer: (d)

   Explanation:
   - ***Khayyum can finish the work in 10 days and as he already worked for 5 days, 50% of the work is done and 50% of the work is pending***
   - ***Same work Khan can do in 20 days but as already 50% of the work is already done, only 50% work is leftover***
   - ***So, Khan can do the pending work of 50% in 10 days***
   - ***So, the answer is (d)***

About "Profit & Loss"

S.NO.	FORMULAE
1	Profit = Selling Price – Cost Price
2	Loss = Cost Price – Selling Price
3	Profit % = (Profit/Cost Price) X 100
4	Loss % = (Loss/Cost Price) X 100
5	Profit = (Profit %) X (Cost Price)/100
6	Loss = (Loss %) X (Cost Price)/100

"Profit & Loss" Sample Questions

1. In the year 1980, Cost Price of a cycle is INR 1,400 and it was sold at INR 1,176. What is the loss %?

   (a) 16% (b) 26% (c) 36% (d) None of the above

   Correct Answer: (d)

   Explanation:
   - ***Cost Price = INR 1,400 & Selling Price = INR 1,176***
   - ***Loss formula = Cost Price – Selling Price***
   - ***Loss in selling cycle is 1,400 – 1,176 = INR 224***
   - ***As per formula, Loss% = (Loss/Cost Price) X 100***
   - ***Loss% = (224/1400) X 100 =16***
   - ***So, the answer is (a)***

2. A table was sold at a loss of 10%. Cost Price of the table is INR 1,000. What is the actual loss in selling the table?

   (a) INR 200 (b) INR 300 (c) INR 400 (d) None of the options

   Correct Answer: (d)

   Explanation:
   - ***Cost Price = INR 1,000***
   - ***Loss% = 10%***
   - ***Loss = (Loss %) X (Cost Price) / 100***
   - ***Loss = (10) X (1000)/100 = 100***
   - ***"100" is not there in any options. So, answer is None of these options***
   - ***So, the answer is (d)***

3. A chair was bought for INR 2,500 and sold for INR 3,080. What is the loss percentage?

   (a) 8% (b) 2% (c) 4% (d) Question is Wrong

   Correct Answer: (d)

   Explanation:

   - ***Cost Price = INR 2,500***
   - ***Selling Price = INR 3,080***
   - ***Gain = Cost Price – Selling Price***
   - ***Chair Profit = 3,080 – 2,500 = INR 580***
   - ***By selling Chair, a profit of INR 580 is gained. There is no loss***
   - ***Hence the question is incorrect***
   - ***So, the answer is (d)***

About "Number Systems"

1	Number system consists of Natural numbers, whole numbers, Integers, rational, irrational, real and superset of all numbers complex numbers
2	➢ Number divisible by one and itself are called prime numbers ➢ Numbers which are not prime i.e. Number which has more than one factor are called composite numbers ➢ All counting numbers are natural numbers (N) ➢ All counting numbers including 0 are called as whole numbers (W) ➢ All counting numbers including 0 and negative numbers are called as integers (Z) ➢ The numbers divisible by 2 are called as Even Numbers ➢ Numbers which are not divisible by 2 are called as odd numbers ➢ A prime number is a natural number greater than 1 that cannot be formed by multiplying two smaller natural numbers. A natural number greater than 1 that is not prime is called a composite number

"Number Systems" Sample Questions

1. All prime numbers are odd. True or False?

   (a) True (b) False (c) Sometimes (d) May be

   Correct Answer: (b)

   Explanation:
   - ***2 is an Even Number as well as prime number***
   - ***So, the statement all prime numbers are odd is false***
   - ***So, the answer is (b)***

2. 2 is the smallest prime number. True or False?

   (a) True (b) False (c) Sometimes (d) May be

   Correct Answer: (a)

   Explanation:
   - ***Number divisible by one and itself are called prime numbers***
   - ***A prime number is a natural number greater than 1 that cannot be formed by multiplying two smaller natural numbers. A natural number greater than 1 that is not prime is called a composite number***
   - ***Prime numbers start from 2***
   - ***So, the answer is (a)***

3. Which one of these is a prime number? 12, 6, 9, 3

   (a) 12 (b) 6 (c) 9 (d) 3

   Correct Answer: (d)

   Explanation:

   - ***Number divisible by one and itself are called prime numbers***
   - ***In the above options, all are divisible by other numbers except 3. Hence, answer is 3***
   - ***So, the answer is (d)***

About "Calendars"

- In a given period, the number of days more than the complete weeks are called odd days
- In leap year, every number divisible by 4, if it is not a century and a century which is divisible by 400 is a leap year

"Calendars" Sample Questions

1. Raju goes to movie every Thursday. He went to movie 9 days ago. What day of the week is today?

   (a) Sunday (b) Wednesday (c) Friday (d) Saturday

   Correct Answer: (d)

   Explanation:
   - ***As Raju goes to movie every Thursday, it was Thursday 9 days ago***
   - ***Add two days for Thursday and it comes to Saturday***
   - ***So, the answer is (d)***

2. If 1st July is Sunday, then 1st August will be?

   (a) Sunday (b) Wednesday (c) Friday (d) Saturday

   Correct Answer: (b)

   Explanation:
   - ***If 1st July is Sunday, then 8th, 15th, 22nd and 29th of July will be Sundays***
   - ***So, 1st August will be Wednesday***
   - ***So, the answer is (b)***

3. Today is Friday. What will be the day after 94 days?

   (a) Sunday (b) Wednesday (c) Friday (d) Saturday

   Correct Answer: (c)

   Explanation:
   - ***Every day of the week is repeated after 7 days***
   - ***So, 94/7 = 12. its repeated 12 times and again comes Friday***
   - ***So, the answer is (c)***

About "Directions"

- Basic Directions – East, West, North, South. East is opposite to West & North is opposite to south
- Cardinal Directions – North-East, North-West, South-East, South-West
- At the time of sunrise, if a person stands facing the east, their shadow will be towards the west
- At the time of sunset, the shadow of an object is always in the east
- If a man stands facing the North, at the time of sunrise his shadow will be towards his left and at the time of sunset it will be towards his right
- At 12:00 noon, the rays of the sun are vertically downward hence there will be no shadow

"Directions" Sample Questions

1. Bhavesh is lying straight on bed facing his head towards south and his legs are towards east. Is this statement correct?

   (a) Yes (b) No (c) May Be (d) Sometimes

   Correct Answer: (b)

   Explanation:
   - ***When lying straight & facing head towards south, legs will be in opposite direction to head***
   - ***As head is towards South, opposite direction is North***
   - ***So, Bhavesh is having his legs towards North***
   - ***Statement says Bhanesh legs are towards East and hence the statement is not correct***
   - ***So, the answer is (b)***

2. Ramesh is walking uphill at 12 noon midsummer from North of the city to South of the city. In which direction his shadow will fall?

   (a) South (b) North (c) North-East (d) None of these options

   Correct Answer: (d)

   Explanation:
   - ***At 12:00 noon, the rays of the sun are vertically downward hence there will be no shadow***
   - ***As there is no shadow, there is no point of shadow direction***
   - ***So, the answer is (d)***

3. One early morning, immediately after sunrise, Tilak was observing & facing the beautiful sunrise and his shadow was falling on north. Is this statement correct?

   (a) Yes (b) No (c) Sometimes (d) Always

   Correct Answer: (b)

   Explanation:
   - ***At the time of sunrise, if a person stands facing the east, their shadow will be towards the west***
   - ***In the above statement, Tilak is observing and facing sunrise. So, he is facing East***
   - ***When Tilak is facing sunrise, his shadow will fall towards west***
   - ***Here, in the statement, it says shadow is falling North, which is not correct***
   - ***So, the answer is (b)***

About "Letter Series"

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

"Letter Series" Sample Questions

1. What is the 10th letter if 1st 20 letters are written in backward order and last 6 letters are as it is?

   (a) K (b) J (c) L (d) None of these

   Correct Answer: (a)

   Explanation:
   - ***If first 20 letters are written in back ward, it starts with alphabet T & ends with alphabet A***
   - ***With the above setting, after rearrangement, 10th letter is K***
   - ***So, the answer is (a)***

2. What is the 5th letter if the last 20 alphabets are written in backward order?

   (a) D (b) E (c) A (d) F

   Correct Answer: (b)

   Explanation:
   - ***English alphabets are 26***
   - ***If last 20 alphabets are written in backward order, it means 1st 6 alphabets are in normal arrangement***
   - ***As per normal arrangement, 5th letter of alphabet is E***
   - ***So, the answer is (b)***

3. What is the sum total of numbers between alphabet series A till E?

   (a) 17 (b) 1 (c) 10 (d) 15

   Correct Answer: (d)

   Explanation:
   - ***As per series, A = 1, B = 2, C = 3, D = 4, E = 5***
   - ***Sum total of A + B + C + D + E = 1 + 2 + 3 + 4 + 5 = 15***
   - ***So, the answer is (d)***

About "Number Series"

- Prime Numbers – 2, 3, 5, 7, 11……
- Even Numbers – 2, 4, 6, 8, 10, 12……
- Odd Numbers – 1, 3, 5, 7, 9, 11…….
- Perfect Squares – 1, 4, 9, 16, 25……..
- Perfect Cubes – 1, 8, 27, 64, 125…….

"Number Series" Sample Questions

1. Which fraction comes next in the sequences of ½, ¾, 5/8, 7/16, NEXT?

   (a) 9/32 (b) 11/34 (c) 3/32 (d) 8/37

   Correct Answer: (a)

   Explanation:
   - ***As per sequence, Numerators are Odd Number series and Denominators 2^n series where n=1, 2, 3,….n***
   - ***Numerator: 5^{th} odd number is 9. So next in Numerator is 9***
   - ***Denominator: As n = 5, $2^n = 2^5 = 32$***
   - ***So, the answer is (a)***

2. 1, 9, 25, X, 81, 121 – What is the value of X?

   (a) 29 (b) 39 (c) 49 (d) 59

   Correct Answer: (c)

   Explanation:
   - ***As per series, its series of Square of Odd Numbers***
   - ***$1^2 = 1$, next odd numbers are 3, 5, 7, 9, 11 etc***
   - ***So, $3^2 = 9$, $5^2 = 25$, $7^2 = 49$, $9^2 = 81$, $11^2 = 121$***
   - ***Hence X is 7 and the answer is $7^2 = 49$***
   - ***So, the answer is (c)***

3. 1, 8, 27, 65, 125, 216 – Is this series correct?

   (a) Yes (b) No (c) No sufficient info (d) Sometimes

   Correct Answer: (b)

   Explanation:
   - ***As per series, its Cube of Natural Numbers***
   - ***Natural Numbers are 1, 2, 3, 4, 5, 6 etc***
   - ***$1^3 = 1$, $2^3 = 8$, $3^3 = 27$, $4^3 = 64$, $5^3 = 125$, $6^3 = 216$***
   - ***In the above 64 is missing, so the series is incorrect***
   - ***So, the answer is (b)***

About "Coding & Decoding"

- Coding and Decoding is reasoning problem
- Code is used to transmit message in such a way that they are not ordinary understood unless these are decoded
- It's a method of transmitting a message between receiver and the sender without a third party knowing it
- Coding and Decoding is part of verbal reasoning
- Coding and Decoding based on alphabets and numerals are also used to code the messages.

"Coding & Decoding" Sample Questions

1. If HYDERABAD is coded as IZEFSBCBE then how is CHENNAI coded?

   (a) DIFOOBJ (b) DDFJDJJ (c) FFDSHDD (d) FDDFDSF

   Correct Answer: (a)

   Explanation:
   - ***As per sample, next letter is used as code. Ex: H in HYDERABAD is represented as next letter to H, which is I. Similarly, each letter is represented by next alphabet in the code***
   - ***(H – I), (Y – Z), (D -E), (E -F), (R -S), (A -B), (B - C), (A -B), (D -E), CHENNAI code is DIFOOBJ***
   - ***So, the answer is (a)***

2. If AT = 21, EAT = 26, then CAT is?

   (a) 21 (b) 22 (c) 23 (d) 24

   Correct Answer: (d)

   Explanation:
   - ***As per above statement, AT = 21 (A =1, T = 20 – Total AT = 1+20 = 21)***
   - ***EAT = 26 means (E = 5, A = 1, T = 20 – Total EAT = 26)***
   - ***CAT = 24 (C = 3, A = 1, T = 20 – Total CAT = 24)***
   - ***So, the answer is (d)***

3. If SEASON is coded as 5 and RELIEVED as 7, what is code for MANAGEMENT?

   (a) 7 (b) 9 (c) No sufficient info (d) 8

   Correct Answer: (b)

   Explanation:
   - ***As per above statement, SEASON is 6 letters and coded as 5, which means total letters minus 1 = 5***
   - ***RELIEVED is 8 letters, total minus 1 = 7***
   - ***MANAGEMENT is 10 letters, total minus 1 = 9***
   - ***So, the answer is (b)***

About "Analogy"

- An association between quantities or qualities or characteristics is generally termed as analogy
- A particular relation is given and another similar relationship to be examined from the several alternatives

"Analogy" Sample Questions

1. Select the pair in which the numbers are similarly related as in the given pair –----- 10:33?

   (a) 23:72 (b) 72:23 (c) Insufficient Info (d) 11:33

   Correct Answer: (a)

   Explanation:

   - ***As per above question, the analogy is 3 Times + 3***
   - ***Three times of 10 is 30 and 30 + 3 = 33***
   - ***Three times of 23 is 69 and 69 + 3 = 72. Hence, its 23:72***
   - ***So, the answer is (a)***

2. PEACOCK : INDIA ::: KANGAROO : X. What is X ?

   (a) AUSTRALIA (b) JAPAN (c) TURKEY (d) None of the these

   Correct Answer: (a)

   Explanation:

   - ***PEACOCK is the national bird of India***
   - ***KANGAROO is the national animal of AUSTRALIA***
   - ***So, the answer is (a)***

3. COMPANY : CHAIRMAN ::: NEWSPAPER : Y. What is Y?

   (a) EDITOR (b) PRINTER (c) REPORTER (d) NEWS READER

   Correct Answer: (a)

   Explanation:

   - ***Highest designed person in a company is CHAIRMAN. Similarly, highest designed person in a NEWSPAPER company is EDITOR***
   - ***Hence, answer is EDITOR***
   - ***So, the answer is (a)***

About “Cubes & Dice”

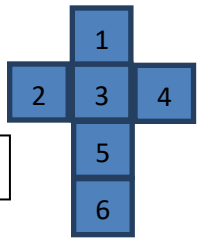


Figure A

When we fold the Figures to form a dice or cube,

1 lies opposite to 5

2 lies opposite to 4

3 lies opposite to 6

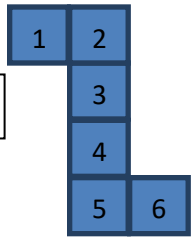


Figure B

1 lies opposite to 6

2 lies opposite to 4

3 lies opposite to 5

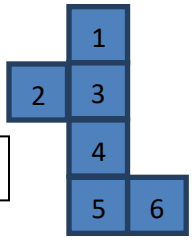


Figure C

1 lies opposite to 4

2 lies opposite to 6

3 lies opposite to 5

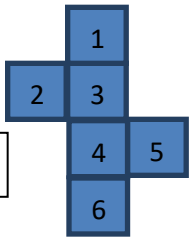


Figure D

1 lies opposite to 4

2 lies opposite to 5

3 lies opposite to 6

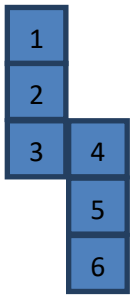


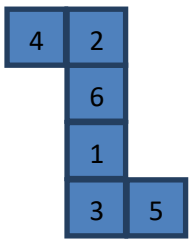
Figure E

1 lies opposite to 3

2 lies opposite to 5

4lies opposite to 6

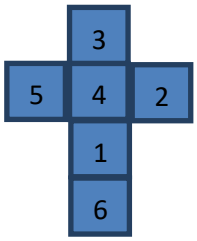
"Cubes & Dice" Sample Questions



1. In the given Fig., what will be the number opposite to 1?
   (a) 3
   (b) 6
   (c) 5
   (d) 2

   Answer: (d)

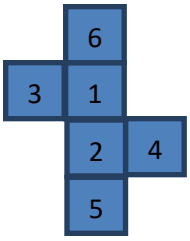
   Explanation: Since the figure is similar to FIGURE B. Opposite to number 1 will be 2



2. In the given Fig., which number will be opposite to 3?
   (a) 1
   (b) 4
   (c) 6
   (d) 5

   Answer: (a)

   Explanation: Since the figure is similar to FIGURE A. Opposite to number 3 will be 1



3. In the given Fig., which number will be opposite to 6?
   (a) 4
   (b) 3
   (c) 2
   (d) 1

   Answer: (c)

   Explanation: Since the figure is similar to FIGURE D. Opposite to number 6 will be 2