RRB TEST – 2
ANSWERS WITH EXPLANATIONS

RRB (QUANT)

Directions (01 - 05): Study pie-chart and table carefully to answer the questions that follow:

Pie-chart showing Percentage wise distribution of cars in four different states

Total cars = 700

Distribution of Cars

State-1 14%
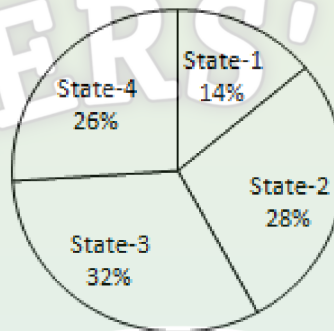State-4 26%
State-2 28%
State-3 32%

Table showing ratio between diesel and petrol engine cars which are distributed among four different states

State	Diesel Engine Cars	Petrol Engine Cars
State-1	3	4
State-2	5	9
State-3	5	3
State-4	1	1

Q01. What is the difference between the number of diesel engine cars in state-2 and the number of petrol engine cars in state-4?

a. 159
b. 21
c. 28
d. 34
e. 161

Ans: B

Solution:

Diesel engine cars in state-2

$$\approx \frac{5}{14} \left(\frac{700 \times 28}{100} \right)$$

Petrol engine cars in state-4

$$= \frac{1}{2} \left(\frac{700 \times 26}{100} \right)$$

$$= \frac{5}{14} \text{ x } 196 = 70$$

$$= \frac{1}{2} \text{ x } 182 = 91$$

Difference = 91 - 70 = 21

Q02. **Number of petrol engine cars in state-3 is what percent of the number of diesel engine cars in state-1 ?**

a. 100

b. 200

c. 300

d. 125

e. 225

Ans: B

Solution:

Petrol engine cars in state-3

$$= \frac{3}{8} \left(\frac{700 \text{ x } 32}{100} \right)$$

$$= \frac{3}{8} \text{ x } 7 \text{ x } 32 = 84$$

Diesel engine cars in state-1

$$= \frac{3}{7} \left(700 \text{ x } \frac{14}{100} \right) = 42$$

∴ Required percentage

$$= \frac{84}{42} \text{ x } 100 = 200$$

Q03. **If 25% of diesel engine cars in state-3 are AC and remaining cars are non-AC, what is the number of diesel engine cars in state-3 which are non-AC ?**

a. 75

b. 45

c. 95

d. 105

e. 35

Ans: D

Solution:

Diesel engine cars in state-3

$$= \frac{5}{8} \text{ x } 700 \text{ x } \frac{32}{100} = 140$$

∴ Non-Ac diesel engine cars

$$\frac{140 \text{ x } 3}{4} = 105$$

Q04. **What is the difference between the total number of cars in state-3 and the number of petrol engine cars in state-2 ?**

a. 96

b. 106

c. 112

d. 102

e. 98

Ans: E

Solution:

Total cars in state-3

$$= \frac{700 \times 32}{100} \times 224$$

Petrol engine cars in state-2

$$= \frac{9}{14} \times 700 \times \frac{28}{100} = 126$$

Difference = 224 - 126 = 98

Q05. What is the average number of petrol engine cars in all the states together ?

a. 86.75

b. 89.25

c. 89.75

d. 86.25

e. 88.75

Ans: B

Solution:

Petrol engine cars in state-1

$$= \frac{4}{7} \times 700 \times \frac{14}{100} = 56$$

$\therefore$ Required average

$$= \frac{56 + 126 + 84 + 91}{4}$$

$$= \frac{357}{4} = 89.25$$

Q06. Shamita took a loan at simple interest rate of 6 p.c.p.a. in the first year and it in-creased by 1.5 p.c.p.a. every year. If she pays Rs. 8,190 as interest at the end of 3 years, what was her loan amount ?

a. Rs. 36000

b. Rs. 35400

c. Rs. 36800

d. Cannot be determined

e. None of these

Ans: E

Solution:

Let the loan amount be Rs. x.

$\therefore 8190$

$$= \frac{x \times 6 \times 1}{100} + \frac{x \times 7.5 \times 1}{100} + \frac{x \times 9 \times 1}{100}$$

$$\Rightarrow \frac{22.5\, x}{100} = 8190$$

$$\Rightarrow x = \frac{8190 \times 100}{22.5} = \text{Rs. } 36400$$

Q07. Which of the following fractions are in descending order

a. $\dfrac{5}{12}, \dfrac{2}{7}, \dfrac{3}{11}, \dfrac{2}{9}, \dfrac{1}{5},$

b. $\dfrac{2}{7}, \dfrac{2}{9}, \dfrac{3}{11}, \dfrac{1}{5}, \dfrac{5}{12},$

c. $\dfrac{1}{5}, \dfrac{2}{9}, \dfrac{3}{11}, \dfrac{2}{7}, \dfrac{5}{12},$

d. $\dfrac{5}{12}, \dfrac{3}{11}, \dfrac{2}{7}, \dfrac{2}{9}, \dfrac{1}{5},$

e. None of these

Ans: A

Solution:

The decimal equivalent of each fraction :

$$\frac{5}{12} = 0.42; \frac{2}{7} = 0.286;$$

$$\frac{3}{11} = 0.27$$

$$\frac{2}{9} = 0.\overline{2}; \frac{1}{5} = 0.2$$

Clearly,

$$\frac{5}{12} > \frac{2}{7} > \frac{3}{11} > \frac{2}{9} > \frac{1}{5}$$

Q08. In how many different ways can the letters of the word 'AWARE' be arranged ?

a. 150

b. 120

c. 40

d. 60

e. None of these

Ans: D

Solution:

The word 'AWARE' consists of 5 letters in which letter 'A' comes twice.

$\therefore$ Number of arrangements

$$= \frac{5!}{2!} = \frac{5 \times 4 \times 3 \times 2 \times 1}{2 \times 1}$$

Q09. Ayesha can complete a piece of work in 16 days. Anita can complete the same piece of work in 8 days. If both of them work together in how many days can they complete the same piece of work ?

a. 6 days

b. $4\frac{2}{5}$ days 5

c. $5\frac{1}{3}$ days

d. 12 days

e. None of these

Ans: C

Solution:

Ayesha's and Amita's 1 day's

$$\text{Work} = \frac{1}{16} + \frac{1}{8} = \frac{1+2}{16} = \frac{3}{16}$$

∴ Ayesha and Amita together in can complete the work in $\frac{16}{3} = 5\frac{1}{3}$ days.

Q10. The average of 5 numbers is 65. The average of the first two numbers is 81 and the average of the last two numbers is 38. What is the third number

a. 63

b. 87

c. 99

d. Cannot be determined

e. None of these

Ans: B

Solution:

The third number

= 5 x 65 - 2 x 81 - 2 x 38

= 325 - 162 - 76 = 87

Q11. A bus covered a certain distance from village A to village B at the speed of 60 km./hr. However on its return journey it got stuck in traffic and covered the same distance at the speed of 40 km/hr. and took 2 hours more to reach its destination. What is the distance covered between village A and B?

a. 240 km.

b. 260 km.

c. 200 km.

d. Cannot be determined

e. None of these

Ans: A

Solution:

Let the distance between villages A and B be x km.

$$\therefore \frac{x}{40} - \frac{x}{60} = 2 \Rightarrow \frac{3x - 2x}{120} = 2$$

$$\Rightarrow x \; 2 \times 120 = 240 \text{ km}$$

Q12. The ratio of the number of students studying in schools A, B and C is 5: 8: 4 respectively. If the number of students studying in each of the schools is increased by 20%, 25% and 30% respectively, what will be the new respective ratio of the students in schools A, B and C?

a. 13 : 25 : 15

b. 20 : 25 : 13

c. 15 : 25 : 13

d. Cannot be determined

e. None of these

Ans: C

Solution:

Required ratio

$$\frac{5 \times 120}{100} : \frac{8 \times 125}{100} : \frac{4 \times 130}{100}$$

$$= 5 \times 120 : 8 \times 125 : 4 \times 130$$

$$= 5 \times 120 : 8 \times 125 : 4 \times 130$$

$$= 15 : 25 : 13$$

Q13. A train speeds past a pole in 20 seconds and speeds past a platform 100 metres in length in 30 seconds. What is the length of the train ?

a. 100 metre

b. 150 metre

c. 180 metre

d. 200 metre

e. None of these

Ans: D

Solution:

Let the length of train be x metre.

$$\therefore \text{Speed of train} = \frac{x}{20} : \frac{x + 100}{30}$$

$$\Rightarrow 3x = 2x + 200$$

$$\Rightarrow x = 200 \text{ m} = \text{length of train}$$

Directions (14 - 18) : Study the following information carefully and answer the questions given below it.

There are 5200 employees in an organisation working in various departments viz. HR, Marketing, Finance, IT and Legal. The employees in the various departments are either Graduates or Postgraduates. 25% of the total number of employees are from HR department. 12% of the total number of employees are from Marketing department. 45% of the total number of employees in the HR department are Graduates. 50% of the total number of employees in the Marketing department are Postgraduates. 18% of the total number of employees in the organization are from Finance department out of which 75% are Postgraduates. 546 employees from IT department are Postgraduates. 15% of the total number of employees in the organisation are in Legal department. 60% of the total number of employees in Legal department are Graduates.

Q14. What is the total number of employees in IT department ?

a.   1014

b.   1300

c.   1560

d.   1650

e.   None of these

Ans: C

Solution:

Number of employees in IT department = 1560

Calculation (14-18): Number of employees from HR department

$= \dfrac{25 \times 5200}{100} = 1300$

Number of graduate employees

$= \dfrac{1300 \times 45}{100} = 585$

Number of postgraduate employees

$= 1300 - 585 = 715$

Number of employees from Marketing department

$= \dfrac{12 \times 5200}{100} = 624$

Number of postgraduate employees

$= 312$

Number of graduate employees = 312

Number of employees from Finance department

$= \dfrac{18 \times 5200}{100} = 936$

Number of post graduate employees

$= 936 \times \dfrac{3}{4} = 702$

Number of graduate employees

$= 936 - 702 = 234$

Number of employees from IT department

$= \dfrac{30 \times 5200}{100} = 1560$

Number of postgraduate employees

$= 546$

Number of graduate employees

$= 1560 - 546 = 1014$

Number of employees from Legal department $\frac{15 \times 5200}{100} = 780$

Number of graduate employees

$= \frac{60 \times 780}{100} = 468$

Number of postgraduate employees

$= 780 - 468 = 312$

Q15. What is the total number of Post Graduates in the organisation from all the departments together ?

a. 2597

b. 2500

c. 2867

d. 2659

e. None of these

Ans: E

Solution:

Total number of post graduates = 715 + 312 + 702 + 546 + 312 = 2587

Q16. The number of Graduates in Finance department is what per cent of the total number of employees in the organisation ?

a. 4.5

b. 5

c. 5.5

d. 3

e. None of these

Ans: A

Solution:

Required percentage

$= \frac{234}{5200} \times 100 = 4.5$

Q17. What is the respective ratio of the number of Postgraduates in Legal department to the number of Postgraduates in HR department ?

a. 8 : 11

b. 3 : 5

c. 24 : 55

d. 12 : 25

e. None of these

Ans: C

Solution:

Required ratio

= 312 : 715 = 24 : 55

Q18. What is the total number of employees in HR, Finance and Legal departments together ?

a. 3484

b. 2860

c. 3640

d. 3016

e. None of these

Ans: D

Solution:

Total number of employees in HR, Finance and Legal departments together

= 1300 + 936 + 780 = 3016

Q19. The difference between the compound interest and simple interest on a certain sum of money at 8% per annum for 2 yr is R 5.60. What is the sum?

a. R 800

b. R 825

c. R 850

d. R 875

e. None of these

Ans: D

Q20. Out of the fractions $\frac{3}{11}, \frac{7}{19}, \frac{9}{21}, \frac{4}{9}$ and $\frac{13}{33}$ which is the third highest?

a. $\frac{3}{11}$

b. $\frac{9}{21}$

c. $\frac{4}{9}$

d. $\frac{13}{33}$

e. None of these

Ans: D

Q21. If the perimeter of a rectangular field is 80 m and the breadth and length is in the ratio of 2 : 3 respectively. What is the area of the field?

a. 360 sq m

b. 430 sq m

c. 384 sq m

d. 160 sq m

e. None of these

Ans: C

Q22. What will come in place of both the question marks (?) in the following equation?

$$\frac{196}{?} = \frac{?}{49}$$

a. 72

b. 98

c. 78

d. 92

e. None of these

Ans: B

Q23. What would be the simple interest obtained on a Principal of R11050 after 6 yr at the rate of 5% per annum?

a. R 3320

b. R 3315

c. R 3300

d. R 3350

e. None of these

Ans: B

Directions (24 - 27) Study the following graph carefully to answer the questions that follow.

Number of Students (in hundred) from Two Different Schools who Qualified in an Exam in Six Different Years
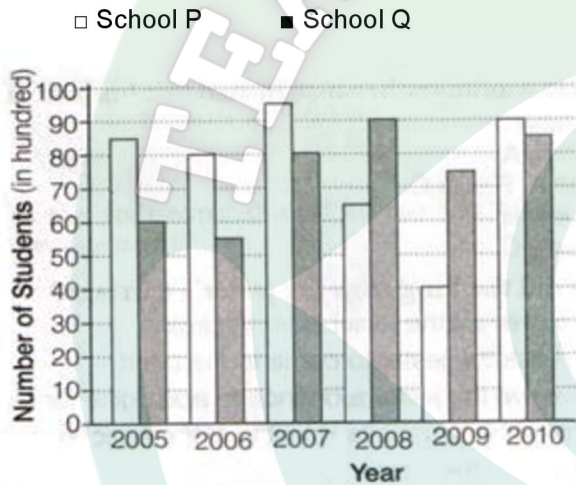
□ School P   ■ School Q

Q24. What was the approximate per cent increase in the number of students who qualified in the exam from School Q in the year 2007 as compared to the previous year?

a. 30

b. 36

c. 45

d. 49

e. 26

Ans: C

Q25. What was the respective ratio between the number of students who qualified in the exam from School P in the year 2005 and the number of students who qualified in the exam from School Q in the year 2008?

a. 13 : 18

b. 17 : 18

c. 17 : 19

d. 13 : 19

e. None of these

Ans: B

Q26. What was the difference between the total number of students who qualified in the exam in the year 2005 from both the schools together and the total number of students from School Q who qualified in the exam overall the years together?

a. 30000
b. 30500
c. 29000
d. 29500
e. None of these

Ans: A

Q27. Total number of students who qualified in the exam from School P overall the years together was approximately what percentage of total number of students who qualified in the exam from both the Schools together in the year 2006 and 2007 together?

a. 143
b. 159
c. 155
d. 165
e. 147

Ans: E

Directions (28 - 31) Find out the wrong number in the following number series.

Q28. 12, 25, 55, 107, 218, 441

a. 55
b. 117
c. 25
d. 52
e. None of these

Ans: A

Q29. 2478, 819, 257, 84, 24, 6, 1

a. 257
b. 24
c. 6
d. 819
e. 1

Ans: A

Q30. 2, 3, 6, 15, 45, 160, 630

a. 45
b. 630
c. 6

d. 3

e. 160

Ans: E

Q31. 199, 176, 195, 180, 190, 184, 187

a. 180

b. 190

c. 184

d. 187

e. 199

Ans: B

Directions (32 - 34) In each of these questions, an equation is given with a question mark (?) in place of a correct symbol. Based on the values on the right hand side and the left hand side of the question mark, you have to decide which of the following symbols will come in place of the question mark.

Give Answer

If in place of question mark (?) following will come

a. > (greater than)

b. = (equal to)

c. < (less than)

d. $\geq$ (either greater than or equal to)

e. $\leq$ (either less than or equal to)

Q32. [(7 x 3) +12] ? [$\sqrt{225}$ +15]

Ans: A

Q33. ± [($\sqrt{324}$ - $\sqrt{49}$)] ? [$\sqrt{121}$]

 Ans: E

Q34. [{34 – (2)^2} x 5]? [4^2 x 8 + (4 x 4)]

Ans: A

Q35. The salary of an employee of a company increases every month by 4%. If his salary in August was R6300, what will be his approximate salary in month of October of the same year?

a. R 6552

b. R 6967

c. R 6814

d. R 6627

e. R 6933

Ans: C

Q36. Keshav spent R 55475 on his birthday party, R 28525 on buying home appliance and the remaining 25% of the total amount he had as cash with him. What was the total amount?

a. R 105000

b. R 100000

c. R 112000

d. R 124000

e. None of these

Ans: C

Q37. Pankaj started a business investing R 42000. After 4 months Nitin joined him with a capital of R 57000. At the end of the year the total profit was R 26000. What is the difference between the share of profit of Pankaj and Nitin?

a. R 1200

b. R 1400

c. R 1800

d. R 1600

e. None of these

Ans: E

Q38. One-fifth of a number is 19. What will 42% of that number be?

a. 38

b. 41.1

c. 39.9

d. 43

e. None of the above

Ans: C

Q39. In a class of 80 students, each student got sweets that are 15% of the total number of students. How many sweets were there?

a. 1200

b. 850

c. 900

d. Can't be determined

e. None of these

Ans: E

Q40. 69.008% of 699.998 + 32.99% of 399.999 = ?

a. 615

b. 645

c. 675

d. 715

e. 725

Ans: A

RRB (REASONING)

Directions (01 - 05): Study the following information arrangement carefully and answer the questions given below:

With a certain code language,

"The meeting adjourned abruptly" is written as **"!e48" "@h08" "#b63" "$d80"**

"Since India gained Internet" is written as **"#n63" "-a35" "%i24" "%n24"**

"Scientists have discovered bacteria" is written as **"*a15" "#a63" "&c99" "&i99"**

"Current economic scenario fine" is written as **"#c63" "*i15" "#c63" "!u48"**

Q1. What is the code for 'gained'?

a. %i24

b. #n63

c. –a35

d. %n24

e. None of these

Ans: C

Solution:

i) Meeting = ! e 48

2nd Letter is –e

There are 7 letters in word meeting.

$(7)^2 – 1 = 49 – 1 = 48$

ii) The = @ h 08

2nd letter is – h

There are 3 letters in word The.

$(3)^2 – 1 = 09 – 1 = 08$

Q2. What is the code for 'Since meeting fine'?

a. *a15!e48 *i15

b. %i24@h08 *115

c. %i24!e48* #c63

d. %i24 !e48 *i15

e. None of these

Ans: D

Q3. What does "&c99 @i99 #n63 @h08" stand for?

a. Since India have fine

b. The scientists discovered internet

c. Meeting gained the economic

d. Current meeting have internet

e. Cannot be determined

Ans: B

Q4. What could be the code for 'economic internet'?

a. #n63 #c63

b. %i24 *a15

c. !e48 #n63

d.   #c63 -a35

e.   None of these

Ans: A

Q5. What is the code for 'Current'?

a.   #c63

b.   *115

c.   @h08

d.   #n63

e.   !u48

Ans: E

Directions (06 – 12): Study the following information carefully and answer the questions given below:

There are nine people A, B, C, D, E, F, G, H and I sitting around a circular table. Some are facing towards and some are facing away from the center. They like different seasons among summer, winter, Rainy, spring and autumn. Not more than 2 people like the same season. The following information is known about them.

C and G form the only pair that is sitting together and like the same season. They are facing in opposite directions to each other. The one who likes Rainy season sits third to the left of B but is neither C nor F. A sits second to the left of F,who likes winter. The one who likes summer is an immediate neighbor of H and E but none of them sits adjacent to C or G. A and H face in the same direction as that of E. I sit third to the right of D, who is facing away from the center and likes spring. E sits second to the left of C. The persons who like winter face towards the center. A either likes Summer or Spring season. One who sits second to the right of I likes spring and faces opposite to the center.

Q06. Who sits second to the right of E?

a.   I

b.   A

c.   D

d.   G

e.   H

Ans: E

Solution:
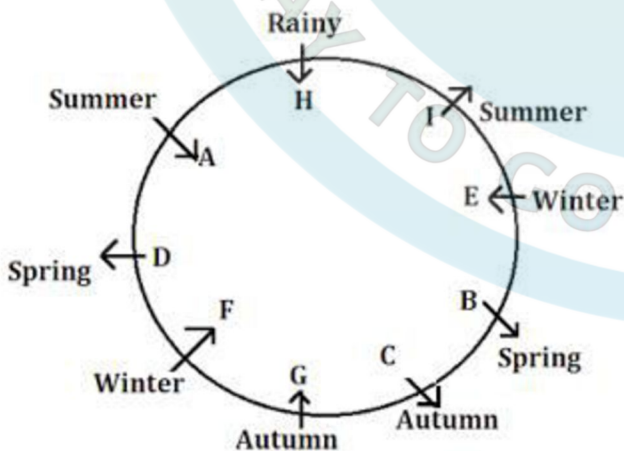
Q07. Who among the following like summer?

a.   C and I

b.   I and A

c.   F and G

d.   A and G

e.   E and I

Ans: B

Q08. B likes which season?

a.   Spring

b.   Autumn

c.   Winter

d.   Rainy

e.   Either spring or rainy

Ans: A

Q09.   How many people face towards the centre?

a.   2

b.   3

c.   4

d.   5

e.   Cannot be determined

Ans: D

Q10. G and A are facing which direction?

a.   Both of them face towards the center.

b.   Both of them face away from the center.

c.   G faces away from the center and A faces away from the center.

d.   G faces away from the center and A faces towards the center.

e.   Cannot be determined.

Ans: A

Q11. F likes which season?

a.   Autumn

b.   Spring

c.   Winter

d.   Rainy

e.   None of the above

Ans: C

Q12.   Who sits third to the left of H?

a.   A

b.   H

c.   B

d.   D

e.   I

Ans: C

Q13. Conclusion: Some glasses are caps.

Some bottles are not cups.

No glass is a cup.

Statement I: All glasses are bottles,

Some caps are cup.

No cup is glass.

Statement II: Some bottles are cups.

No cap is a bottle.

All cups are glasses.

Statement III: No cap is a glass.

Some bottles are cap.

All bottles are cups.

Statement IV: Some glasses are bottles.

No cup is a glass.

All bottles are caps.

Statement V: No cup is glass.

Some caps are cup.

All bottles are cup.

a. Only statement I follow
b. Only statement II follow
c. Only statement III follow
d. Only statement IV follow
e. Only statement V follow

Ans: D

Q14. Conclusion: No kicks are bricks.

Some stones are not sticks.

No brick is a stick.

Statement I: All kicks are sticks.

No stick is a brick.

Some bricks are stones.

Statement II: Some sticks are bricks;

No brick is a kick;

All kicks are stones.

 Statement III: All kicks are stones;

No stick is a brick;

Some stones are sticks

Statement IV: All bricks are sticks;

All sticks are kicks;

All kicks are stones.

Statement V: No stick is stone;

All bricks are sticks;

All kicks are stones.

a. Only statement I follow
b. Only statement II follow
c. Only statement III follow
d. Only statement IV follow
e. Only statement V follow

Ans: A

Q15. Conclusion: Some garlic being potatoes is a possibility.

Some tomatoes are Not onions.

All potatoes being tomatoes is a possibility.

Statement I: All potatoes are tomatoes;

No tomato is garlic;

All garlic is onions;

Statement II: No onion is a tomato;

All garlic is onions;

All potatoes are tomatoes.

Statement III: All tomatoes are onions;

All onions are garlic;

No potato is garlic.

Statement IV: No garlic is a onion.

All potatoes are onions;

Some tomatoes are garlic.

Statement V: Some potatoes are onions.

 No onion is garlic.

All garlic is tomatoes.

a. Only statement I follow
b. Only statement II follow
c. Only statement III follow
d. Only statement IV follow
e. Only statement V follow

Ans: E

Directions (16 - 20) : Study the following information carefully and answer the questions given below:

A, B, C, D, E, F, G, H, I and J are family members. There are three generations of the family. Each member likes a different drink viz, Coffee, Tea, Milk, Sprite, Fanta, 7up, Maaza, Pepsi, Appy and Limca, but not necessarily in the same order. There are five females in the family.

In the family, each female member, except B and H, has two sisters and one unmarried brother. B has no sister-in-law. A does not like Tea. The grandson of J does not like Pepsi. No male member likes Maaza, Limca or Tea. I is the father-in-law of F and likes Fanta. G, who likes 7up, is the son-in-law of B. The mother of C likes Tea. D, who likes Coffee, is the unmarried sister of E, who does not like Maaza. C is the sister-in-law of F, but she does not like Fanta, Limca

or Tea. E is the brother-in-law of G. The father of B is the husband of H and he does not like Appy. The grandparents do not like any beverage except Milk and Appy. C is a married sister of A.
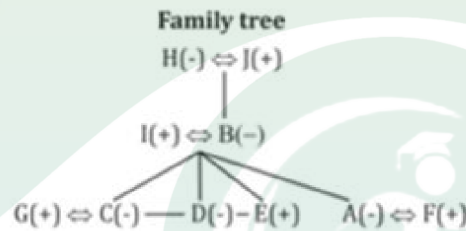
Q16. Who among the following likes Maaza?

a. F

b. B

c. E

d. C

e. None of these

Ans: D

Solution:

Person	Drink
A(-)	Limca
B(-)	Tea
C(-)	Maaza
D(-)	Coffee
E(+)	Sprite
F(+)	Pepsi
G(+)	7up
H(-)	Appy
I(+)	Fanta
J(+)	Milk

Family tree

$$H(-) \Leftrightarrow J(+)$$

$$I(+) \Leftrightarrow B(-)$$

$$G(+) \Leftrightarrow C(-) \text{—} D(-) \text{–} E(+) \quad A(-) \Leftrightarrow F(+)$$

Q17. F likes which of the following drinks?

a. Pepsi

b. Limca

c. Sprite

d. Milk

e. None of these

Ans: A

Q18. How many granddaughters does H have?

a. One

b. Two

c. Four

d. Three

e. None of these

Ans: D

Q19. How is A related to H?

a. Daughter

b. Granddaughter

c. Daughter-in-law

d. Son

e. None of these

Ans: B

Q20. Who among the following is father of E?

a. B

b. H

c. F

d. I

e. None of these

Ans: D

Directions (21 - 25): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and-

a. **Give answer (a):** if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question

b. **Give answer (b)**: if the data in statement II alone are sufficient to answer the question, while data in statement I alone are not sufficient to answer the question.

c. **Give answer (c)** : If the data either in Statement I alone or in statement II alone are sufficient to answer the question

d. **Give answer (d)** : If the data given in both the statements I and II together are not sufficient to answer the question

e. **Give Answer (e)** : if the date given in both the statements I and II together are necessary to answer the question.

Q21. How is 'sure' written in a code language:

I. 'he is sure' is written as 'ja ha ma' in that code language.

II. 'is she sure' is written as 'ka ja ma' in that code language

Ans: D

Solution:

From both the statements;
He is sure → ja ha ma
Is she sure → ka ja ma
The code for 'sure' is either 'ja' or 'ma'

Q22. What is R's position from the left end in a row:

I. M is tenth from the left end of the row

II. There are sixteen brother and two sisters.

Ans: E

Q23. How is J related to M:

I. M has only one brother and two sisters

II. J is daughter of T who is wife of M.

Ans: B

Solution:

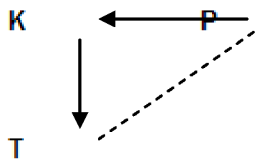From statement II M is the husband of T. J is daughter of M and T.

Q24. Town P is towards which direction of town T:

I. Town T is towards South of town K which is towards West of town P.

II. Town R is towards south of town V and towards East of town T.
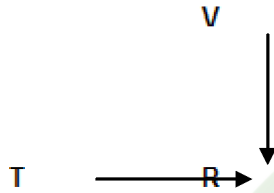
Ans: A

Solution:

From statement I.

From the diagram it is clear that town P is towards north-east of town T.

From statement II.

Q25. Among P,Q,R,S and T each having different age, who is the youngest among them:

I.   Q is younger than only P

II.   S is older than only R.

Ans: B

Directions (26 - 30): Study the following information carefully and answer the questions given below:

Following are the conditions for selecting management trainee in an organization:

The candidate must:-

(i)   Be a graduate with at least 60 % marks

(ii)   Be not less than 21 years and not more than 28 years as on 1.1.2013

(iii) Be ready to pay Rs 50000 as security deposit

(iv)   Has secured at least 40% marks in the selection examination.

(v)   Have secured at least 50% marks in personal interview.

In the case of a candidate who has satisfied all the above conditions except:

a. At (i) above, but has secured at least 65% marks in the post graduation, the case is to be referred to GM-Personnel

b. At (iii) above, but is ready to sign a bond of one year, the case is to be referred to ED-personnel.

In each question below are given details of one candidate. You have to take one of the following courses of actions based on the information provided and the conditions and sub conditions given above and mark the number of that course of action as your answer. You are not to assume anything other than the information provided in each question. All these cases are given to you as on 1.1.2013.

a.   Mark answer (a): if the data provided are not adequate to take a decision

b.   Mark answer (b): if the candidate to be selected

c.   Mark answer (c): if the candidate is not to be selected

d.   Mark answer (d) : if the case is to be referred to GM-personnel

e.   Mark answer (e) : if the case is to referred to ED-personnel

Q26. Anuj Soren was born on 25th March 1987. He has secured 58 percent marks in graduation and 63 percent marks in post graduation. He has secured 50 percent marks in both selection examination and personal interview. He is ready to pay security deposit of Rs. 50,000.

Ans: C

Solution:

Candidate	Criteria					
	(i) Or (a)		(ii)	(iii) Or (b)	(iv)	(v)
Anuj	X	X	√	√	-	√	√
Namita	√	-	√	√	-	√	√
Abhinav	√	-	√	-	√	√	√
Sohan	-	√	√	√	-	√	√
Seema	√	√	√	√	-	√	NG

Q27. Namita Jaiswal has secured 62 % marks in graduation and 52 % marks in the personal interview. She is born on 12th July 1986. She is ready to pay security deposit of Rs 50,000. She has secured 46% marks in the selection examination.

Ans: B

Q28. Abhinav Ghosal has secured 52 percent marks in the personal interview and 40% marks in the selection examination. He can pay Rs 25,000 as security deposit. Alternatively he can sign a bond of one year. He was born on 3rd December 1987. He has secured 63% marks in graduation.

Ans: E

Q29. Sohan Awasthi was born on 8th June 1990. He has secured 55% marks in both selection examination and personal interview. He can pay security deposit of Rs. 50,000. He has secured 68% marks in Post graduation and 59% marks in graduation.

Ans: D

Q30. Seema Biswas was born on 15th May 1988. She has secured 65% marks in graduation and 70% marks in post graduation. She is ready to pay Rs. 50,000 as security deposit. She has also secured 45% marks in the selection examination.

Ans: A

Directions (31 - 32) Read the following statements carefully to answer these questions.

I.   X is older than L.

II.   M and N are of equal age.

III. Z is the youngest.

IV. Y is younger than N.

V.   Y is older than X.

Q31. Which two of the above statements indicate that Y is older than L?

a.   I and IV

b.   IV and V

c.   I and V

d.   All of these

e.   None of these

Ans: C

Q32. Which statement(s) indicate(s) that N is older than Z?

a.   II and III

b.   Only III

c. III and IV

d. None of these

e. All of these

Ans: B

Directions (33 - 35) Study the information and answer the following questions.

In a certain code language, 'economics is not money' is written as 'ka la ho ga' demand and supply economics' is written as 'mo ta pa ka' money makes only part' is written as 'zi la ne ki"demand makes supply economics' is written as 'zi mo ka ta'.

Q33. What is the code for 'money' in the given code language?

a. ga

b. mo

c. pa

d. ta

e. la

Ans: E

Q34. What is the code for `supply' in the given code language?

a. Only ta

b. Only mo

c. Either pa or mo

d. Only pa

e. Either mo or ta

Ans: E

Q35. What may be the possible code for 'demand only more' in the given code language?

a. xi ne mo

b. mo zi ne

c. ki ne mo

d. mo zi ki

e. xi ka ta

Ans: A

Directions (36 - 38) In each of the questions below are given three statements followed by two Conclusions I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Q36. Statements

All books are tents.

Some tents are lakes.

All lakes are ponds.

Conclusions

I. Atleast some ponds are books.

II. Some ponds are definitely not tents.

a. None follows

b.   Only I follows

c.   Only II follows

d.   I and II follow

e.   None of these

Ans: A

Q37. Statements

All pictures are walls.

Some walls are rooms.

Some rooms are windows.

Conclusions

I.   Some windows are definitely walls.

II.   All windows being pictures is a possibility.

a.   None follows

b.   Only I follows

c.   Only II follows

d.   II and III follow

e.   None of these

Ans: C

Q38. Statements

All baskets are marbles.

Some marbles are sticks.

No stick is garden.

Conclusions

I.   Atleast some gardens are baskets.

II.   No garden is baskets.

a.   Only I follows

b.   I and II follow

c.   Either I or II follows

d.   Only II follows

e.   None of the above

Ans: C

Q39. Two ladies and two men are playing cards and are seated at North, East, South and West of a table. No lady is facing East. Persons sitting opposite each other are not of the same gender. One man is facing South. Which directions are the ladies facing?

a.   South and East

b.   North and East

c.   North and West

d.   East and West

e.   Data inadequate

Ans: C

Q40. Standing on a platform, Amit told Sunita that Aligarh was more than 10 km but less than 15 km from there. Sunita knew that it was more than 12, but less than 14 km from there. If both of them were correct, which of the following could be the distance of Aligarh from the platform?

a. 11 km

b. 12 km

c. 13 km

d. 14 km

e. None of these

Ans: C