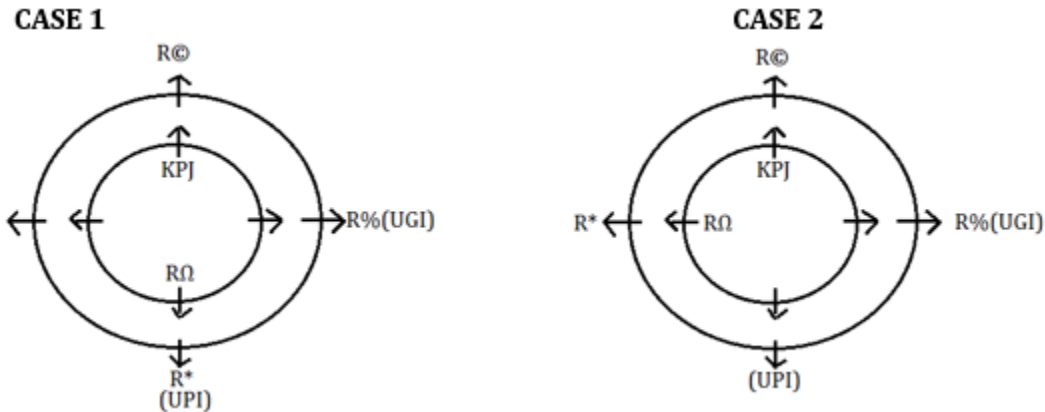


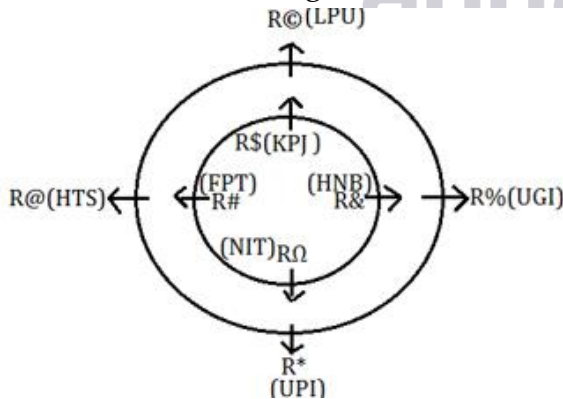
## All India Mock Test for FCI AGM 2021 PDF (Solutions)

**S1. Ans.(a)**

**Sol.** From the given statements, R% who is graduated from UGI sits opposite to the one who sits at the immediate left of R⊙. RΩ sits just behind the R\*. So, we have two possible cases i.e. case1 and case2. The one who is graduated from KPJ sits just behind the R⊙. The one who is graduated from KPJ sits just behind the one who sits second to the left of the one who is graduated from UPI.



RΩ sits at the immediate right of R&. R& sits just behind the one who is graduated from UGI. So, case 2 gets eliminated here. The persons who are graduated from FPT and HNB are sitting on the same table and sit opposite to each other which means these persons are sitting on the inner table. R& is not graduated from FPT. The one who is graduated from HTS sits at the immediate left of the one who is graduated from LPU which means R@ is graduated from HTS, R⊙ is graduated from LPU and RΩ is graduated from NIT. R\$ is not graduated from FPT which means R\$ is graduated from KPJ and R# from FPT. So, the final arrangement is:



**S2. Ans.(e)**

**Sol.** From the given statements, R% who is graduated from UGI sits opposite to the one who sits at the immediate left of R⊙. RΩ sits just behind the R\*. So, we have two possible cases i.e. case1 and case2. The one who is graduated from KPJ sits just behind the R⊙. The one who is graduated from KPJ sits just behind the one who sits second to the left of the one who is graduated from UPI.

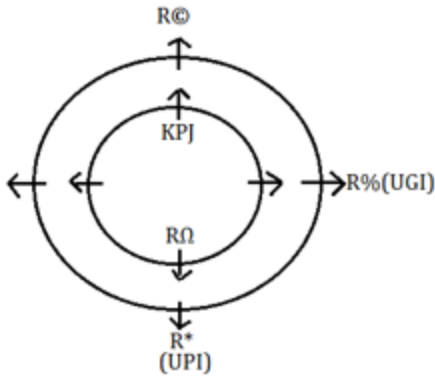
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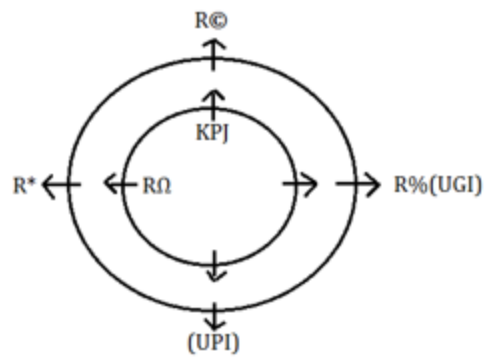
Live Class, Video Course,  
Test Series, eBooks

Bilingual (with eBooks)  
24 Months Validity

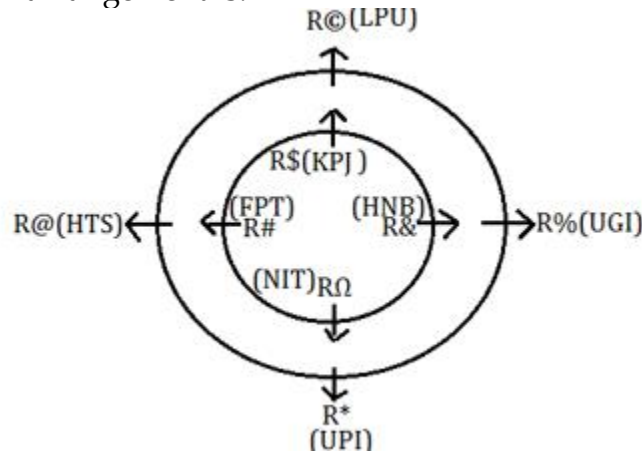
**CASE 1**



**CASE 2**



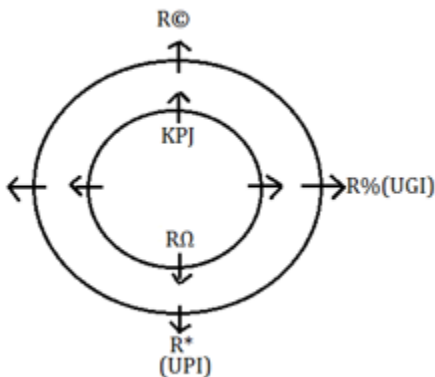
RΩ sits at the immediate right of R&. R& sits just behind the one who is graduated from UGI. So, case 2 gets eliminated here. The persons who are graduated from FPT and HNB are sitting on the same table and sit opposite to each other which means these persons are sitting on the inner table. R& is not graduated from FPT. The one who is graduated from HTS sits at the immediate left of the one who is graduated from LPU which means R@ is graduated from HTS, R@ is graduated from LPU and RΩ is graduated from NIT. R\$ is not graduated from FPT which means R\$ is graduated from KPJ and R# from FPT. So, the final arrangement is:



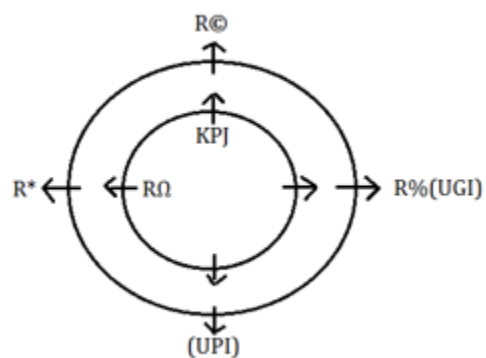
**S3. Ans.(b)**

**Sol.** From the given statements, R% who is graduated from UGI sits opposite to the one who sits at the immediate left of R@. RΩ sits just behind the R\*. So, we have two possible cases i.e. case1 and case2. The one who is graduated from KPJ sits just behind the R@. The one who is graduated from KPJ sits just behind the one who sits second to the left of the one who is graduated from UPI.

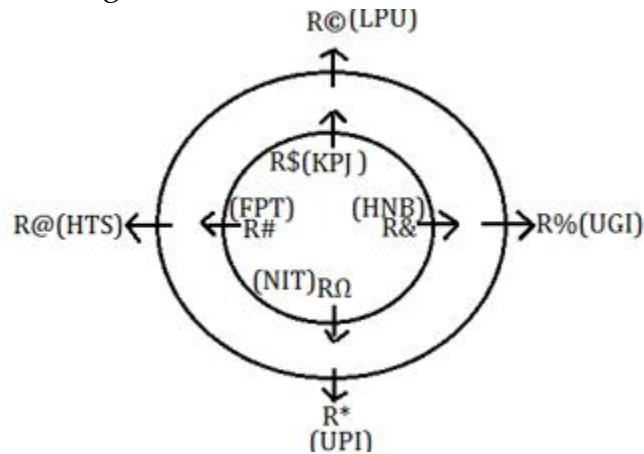
**CASE 1**



**CASE 2**



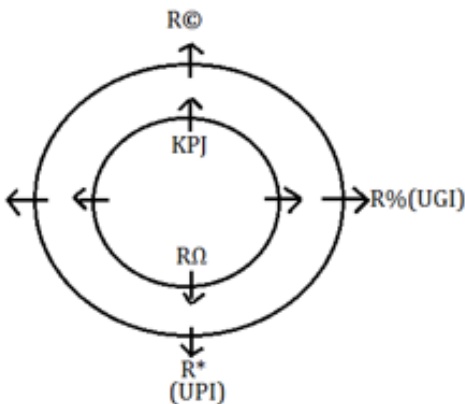
RΩ sits at the immediate right of R&. R& sits just behind the one who is graduated from UGI. So, case 2 gets eliminated here. The persons who are graduated from FPT and HNB are sitting on the same table and sit opposite to each other which means these persons are sitting on the inner table. R& is not graduated from FPT. The one who is graduated from HTS sits at the immediate left of the one who is graduated from LPU which means R@ is graduated from HTS, R© is graduated from LPU and RΩ is graduated from NIT. R\$ is not graduated from FPT which means R\$ is graduated from KPJ and R# from FPT. So, the final arrangement is:



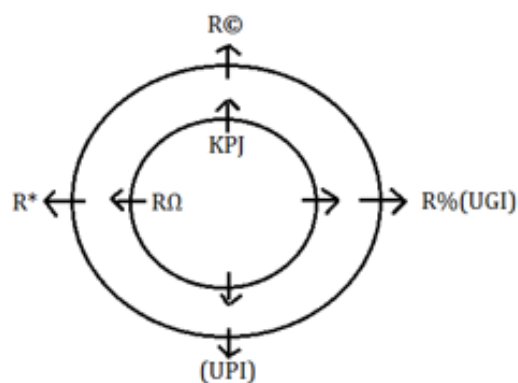
**S4. Ans.(d)**

**Sol.** From the given statements, R% who is graduated from UGI sits opposite to the one who sits at the immediate left of R©. RΩ sits just behind the R\*. So, we have two possible cases i.e. case1 and case2. The one who is graduated from KPJ sits just behind the R©. The one who is graduated from KPJ sits just behind the one who sits second to the left of the one who is graduated from UPI.

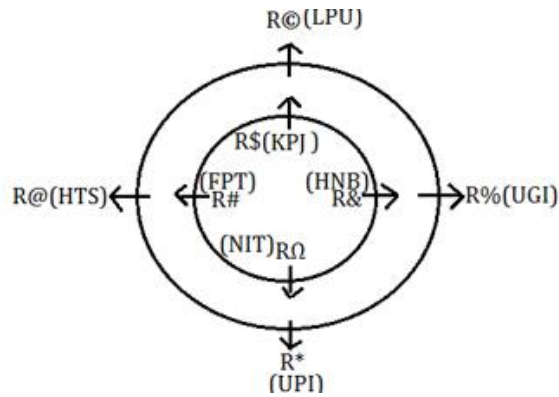
**CASE 1**



**CASE 2**



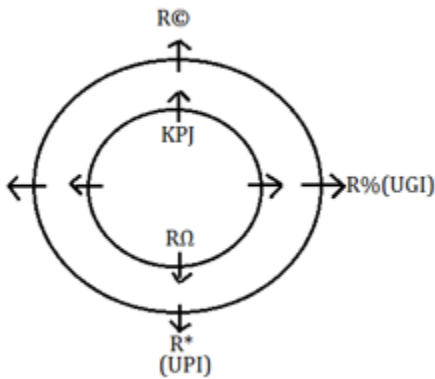
RΩ sits at the immediate right of R&. R& sits just behind the one who is graduated from UGI. So, case 2 gets eliminated here. The persons who are graduated from FPT and HNB are sitting on the same table and sit opposite to each other which means these persons are sitting on the inner table. R& is not graduated from FPT. The one who is graduated from HTS sits at the immediate left of the one who is graduated from LPU which means R@ is graduated from HTS, R© is graduated from LPU and RΩ is graduated from NIT. R\$ is not graduated from FPT which means R\$ is graduated from KPJ and R# from FPT. So, the final arrangement is:



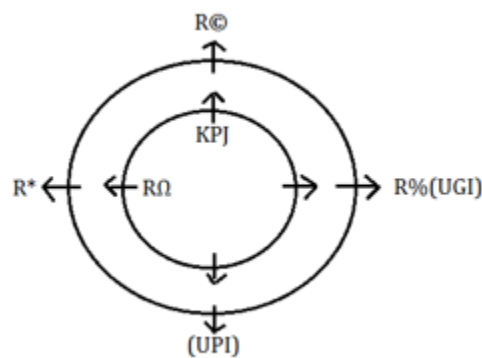
**S5. Ans.(c)**

**Sol.** From the given statements, R% who is graduated from UGI sits opposite to the one who sits at the immediate left of R⊙. RΩ sits just behind the R\*. So, we have two possible cases i.e. case1 and case2. The one who is graduated from KPJ sits just behind the R⊙. The one who is graduated from KPJ sits just behind the one who sits second to the left of the one who is graduated from UPI.

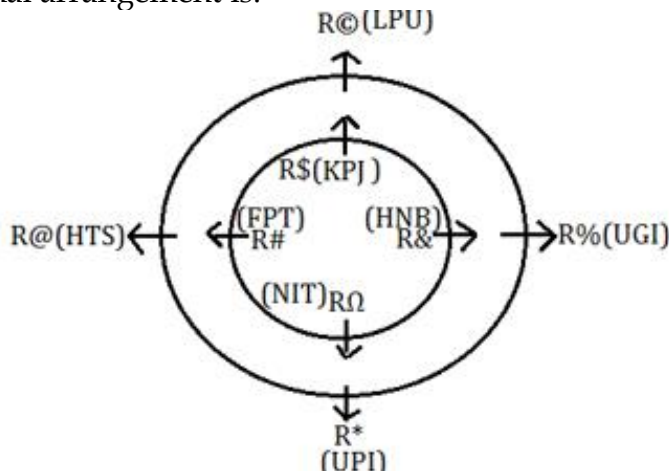
**CASE 1**



**CASE 2**



RΩ sits at the immediate right of R&. R& sits just behind the one who is graduated from UGI. So, case 2 gets eliminated here. The persons who are graduated from FPT and HNB are sitting on the same table and sit opposite to each other which means these persons are sitting on the inner table. R& is not graduated from FPT. The one who is graduated from HTS sits at the immediate left of the one who is graduated from LPU which means R@ is graduated from HTS, R⊙ is graduated from LPU and RΩ is graduated from NIT. R\$ is not graduated from FPT which means R\$ is graduated from KPJ and R# from FPT. So, the final arrangement is:



S6. Ans.(c)

Sol. Either Argument I or II is strong because many times ruling government misuse it while sometimes dissolving the assembly becomes the need of the hour.

S7. Ans.(a)

Sol. Argument I is strong because it will reduce the problem of black marketing of commodities supplied under PDS. Argument II is not strong because it is not directly related with the statement.

S8. Ans.(a)

Sol.

Reverse letter of the last  
letter of word

authority  $\Rightarrow$   $\overset{1}{B} 6$  — place value of the reverse of  
the letter which is second  
from the left end

Logic:

S9. Ans.(e)

Sol.

Reverse letter of the last  
letter of word

authority  $\Rightarrow$   $\overset{1}{B} 6$  — place value of the reverse of  
the letter which is second  
from the left end

Logic:

S10. Ans.(e)

Sol.

Reverse letter of the last  
letter of word

authority  $\Rightarrow$   $\overset{1}{B} 6$  — place value of the reverse of  
the letter which is second  
from the left end

Logic:

S11. Ans.(d)

Sol.

Reverse letter of the last  
letter of word

authority  $\Rightarrow$   $\overset{1}{B} 6$  — place value of the reverse of  
the letter which is second  
from the left end

Logic:

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S12. Ans.(e)

Sol.

Reverse letter of the last  
letter of word

authority  $\Rightarrow$  B 6 — place value of the reverse of  
the letter which is second  
from the left end

Logic:

S13. Ans.(d)

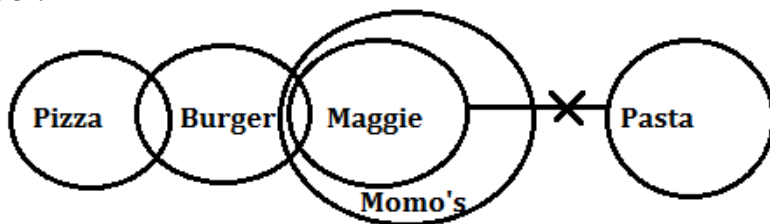
Sol. File compression is the technique used to store the large file in a small storage space. It compresses to content of the file in such a way that there is no harm done on the file content and quality.

S14. Ans.(b)

Sol. PowerPoint is used to make presentations/slide shows.

S15. Ans.(d)

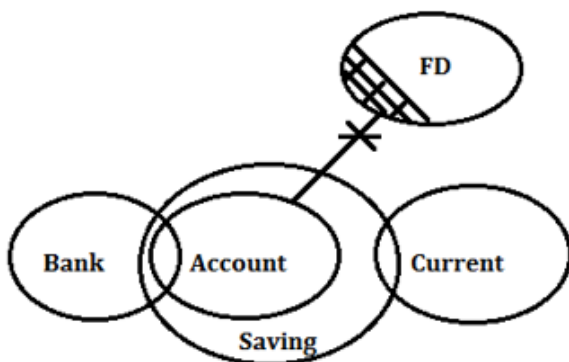
Sol.



S16. Ans.(c)

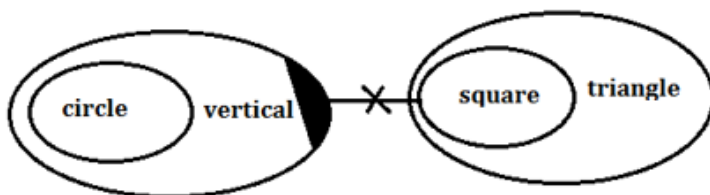
Sol.

adda247



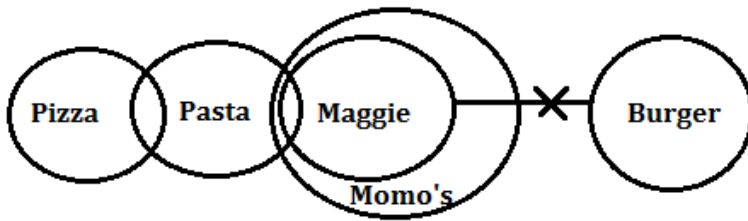
S17. Ans.(b)

Sol.



S18. Ans.(e)

Sol.



S19. Ans.(a)

Sol. From the given statements, there are three couples get married between F's husband and Q's Wife. R get married before Q. From these conditions we have 3 possibilities i.e. Case 1, Case 2 and Case 3. C was married with T on an even numbered date. T was not a male.

Months	Dates	Case 1		Case 2		Case 3	
		Husband	Wife	Husband	Wife	Husband	Wife
April	5		F			R/	R/
	28	C/	T/		F	Q	
August	5						
	28	C/	T/	C	T	C	T
October	5	Q					
	28	C/	T/	Q			F

There are two couples get married between E's husband and B's wife. E's husband get married before B's wife. From this condition Case 2 is ruled out now and we get one more possibility i.e. Case 3a.

Months	Dates	Case 1		Case 3		Case 3a	
		Husband	Wife	Husband	Wife	Husband	Wife
April	5		F	R/	R/	R/	R/
	28	C/	T/	Q	E	Q	
August	5		E				E
	28	C/	T/	C	T	C	T
October	5	Q		B			
	28	B			F	B	F

D is the husband of S. The number of couples get married after S is same as the number of couples get married before U's husband. From these conditions Case 3 is ruled out now.

Months	Dates	Case 1		Case 3a	
		Husband	Wife	Husband	Wife
April	5		F	R/	R/
	28	D	S	Q	U
August	5		E		E
	28	C	T	C	T
October	5	Q	U	D	S
	28	B		B	F

E's husband get married before P and after A. From this condition Case 3a is ruled out now.

So, the final arrangement is-

Months	Dates	Husband	Wife
April	5	A	F
	28	D	S
August	5	R	E
	28	C	T
October	5	Q	U
	28	B	P

S20. Ans.(e)

Sol. From the given statements, there are three couples get married between F's husband and Q's Wife. R get married before Q. From these conditions we have 3 possibilities i.e. Case 1, Case 2 and Case 3. C was married with T on an even numbered date. T was not a male.

Months	Dates	Case 1		Case 2		Case 3	
		Husband	Wife	Husband	Wife	Husband	Wife
April	5		F			R/	R/
	28	C/	T/		F	Q	
August	5						
	28	C/	T/	C	T	C	T
October	5	Q					
	28	C/	T/	Q			F

There are two couples get married between E's husband and B's wife. E's husband get married before B's wife. From this condition Case 2 is ruled out now and we get one more possibility i.e. Case 3a.

Months	Dates	Case 1		Case 3		Case 3a	
		Husband	Wife	Husband	Wife	Husband	Wife
April	5		F	R/	R/	R/	R/
	28	C/	T/	Q	E	Q	
August	5		E				E
	28	C/	T/	C	T	C	T
October	5	Q		B			
	28	B			F	B	F

D is the husband of S. The number of couples get married after S is same as the number of couples get married before U's husband. From these conditions Case 3 is ruled out now.

Months	Dates	Case 1		Case 3a	
		Husband	Wife	Husband	Wife
April	5		F	R/	R/
	28	D	S	Q	U
August	5		E		E
	28	C	T	C	T
October	5	Q	U	D	S
	28	B		B	F

E's husband get married before P and after A. From this condition Case 3a is ruled out now.

So, the final arrangement is-



Months	Dates	Husband	Wife
April	5	A	F
	28	D	S
August	5	R	E
	28	C	T
October	5	Q	U
	28	B	P

**S21. Ans.(d)**

**Sol.** From the given statements, there are three couples get married between F's husband and Q's Wife. R get married before Q. From these conditions we have 3 possibilities i.e. Case 1, Case 2 and Case 3. C was married with T on an even numbered date. T was not a male.

Months	Dates	Case 1		Case 2		Case 3	
		Husband	Wife	Husband	Wife	Husband	Wife
April	5		F			R/	R/
	28	C/	T/		F	Q	
August	5						
	28	C/	T/	C	T	C	T
October	5	Q					
	28	C/	T/	Q			F

There are two couples get married between E's husband and B's wife. E's husband get married before B's wife. From this condition Case 2 is ruled out now and we get one more possibility i.e. Case 3a.

Months	Dates	Case 1		Case 3		Case 3a	
		Husband	Wife	Husband	Wife	Husband	Wife
April	5		F	R/	R/	R/	R/
	28	C/	T/	Q	E	Q	
August	5		E				E
	28	C/	T/	C	T	C	T
October	5	Q		B			
	28	B			F	B	F

D is the husband of S. The number of couples get married after S is same as the number of couples get married before U's husband. From these conditions Case 3 is ruled out now.

Months	Dates	Case 1		Case 3a	
		Husband	Wife	Husband	Wife
April	5		F	R/	R/
	28	D	S	Q	U
August	5		E		E
	28	C	T	C	T
October	5	Q	U	D	S
	28	B		B	F

E's husband get married before P and after A. From this condition Case 3a is ruled out now.

So, the final arrangement is-

Months	Dates	Husband	Wife
April	5	A	F
	28	D	S
August	5	R	E
	28	C	T
October	5	Q	U
	28	B	P

S22. Ans.(e)

Sol. From the given statements, there are three couples get married between F's husband and Q's Wife. R get married before Q. From these conditions we have 3 possibilities i.e. Case 1, Case 2 and Case 3. C was married with T on an even numbered date. T was not a male.

Months	Dates	Case 1		Case 2		Case 3	
		Husband	Wife	Husband	Wife	Husband	Wife
April	5		F			R/	R/
	28	C/	T/		F	Q	
August	5						
	28	C/	T/	C	T	C	T
October	5	Q					
	28	C/	T/	Q			F

There are two couples get married between E's husband and B's wife. E's husband get married before B's wife. From this condition Case 2 is ruled out now and we get one more possibility i.e. Case 3a.

Months	Dates	Case 1		Case 3		Case 3a	
		Husband	Wife	Husband	Wife	Husband	Wife
April	5		F	R/	R/	R/	R/
	28	C/	T/	Q	E	Q	
August	5		E				E
	28	C/	T/	C	T	C	T
October	5	Q		B			
	28	B			F	B	F

D is the husband of S. The number of couples get married after S is same as the number of couples get married before U's husband. From these conditions Case 3 is ruled out now.

Months	Dates	Case 1		Case 3a	
		Husband	Wife	Husband	Wife
April	5		F	R/	R/
	28	D	S	Q	U
August	5		E		E
	28	C	T	C	T
October	5	Q	U	D	S
	28	B		B	F

E's husband get married before P and after A. From this condition Case 3a is ruled out now. So, the final arrangement is-

Months	Dates	Husband	Wife
April	5	A	F
	28	D	S
August	5	R	E
	28	C	T
October	5	Q	U
	28	B	P

S23. Ans.(b)

Sol. From the given statements, there are three couples get married between F's husband and Q's Wife. R get married before Q. From these conditions we have 3 possibilities i.e. Case 1, Case 2 and Case 3. C was married with T on an even numbered date. T was not a male.

Months	Dates	Case 1		Case 2		Case 3	
		Husband	Wife	Husband	Wife	Husband	Wife
April	5		F			R/	R/
	28	C/	T/		F	Q	
August	5						
	28	C/	T/	C	T	C	T
October	5	Q					
	28	C/	T/	Q			F

There are two couples get married between E's husband and B's wife. E's husband get married before B's wife. From this condition Case 2 is ruled out now and we get one more possibility i.e. Case 3a.

Months	Dates	Case 1		Case 3		Case 3a	
		Husband	Wife	Husband	Wife	Husband	Wife
April	5		F	R/	R/	R/	R/
	28	C/	T/	Q	E	Q	
August	5		E				E
	28	C/	T/	C	T	C	T
October	5	Q		B			
	28	B			F	B	F

D is the husband of S. The number of couples get married after S is same as the number of couples get married before U's husband. From these conditions Case 3 is ruled out now.

Months	Dates	Case 1		Case 3a	
		Husband	Wife	Husband	Wife
April	5		F	R/	R/
	28	D	S	Q	U
August	5		E		E
	28	C	T	C	T
October	5	Q	U	D	S
	28	B		B	F

E's husband get married before P and after A. From this condition Case 3a is ruled out now.

So, the final arrangement is-

Months	Dates	Husband	Wife
April	5	A	F
	28	D	S
August	5	R	E
	28	C	T
October	5	Q	U
	28	B	P

**S24. Ans.(b)**

**Sol.** The statement hints at following the practices used by leading institutes as a positive feature of the MN. Institute. So, only II follows while I does not.

Hence, the answer is (b).

**S25. Ans.(c)**

**Sol.** The fact that Mr. X has been short-listed for the post, does not confirm his selection, So, either I or II follows.

Hence, the answer is (c).

**S26. Ans.(c)**

**Sol.**

$$\text{Buying price of first share of RIL} = 50000 \times \frac{120}{100} = \text{Rs } 60000$$

$$\begin{aligned} \text{Buying price of second share of RIL} &= 50000 \times \frac{120}{100} \times \frac{115}{100} \\ &= \text{Rs } 69000 \end{aligned}$$

$$\begin{aligned} \text{Selling price of both shares of RIL} &= 2 \times \left( 50000 \times \frac{110}{100} \times \frac{120}{100} \times \frac{130}{100} \right) \\ &= \text{Rs } 171600 \end{aligned}$$

$$\begin{aligned} \text{Required profit} &= 171600 - (69000 + 60000) \\ &= \text{Rs } 42600 \end{aligned}$$

**S27. Ans.(a)**

**Sol.**

$$\begin{aligned} \text{Buying price of one share of RIL in March} &= 50000 \times \frac{120}{100} \times \frac{115}{100} \\ &= \text{Rs } 69000 \end{aligned}$$

$$\begin{aligned} \text{Selling price of one share of RIL in May} &= 50000 \times \frac{110}{100} \times \frac{120}{100} \times \frac{130}{100} \times \frac{110}{100} \\ &= \text{Rs } 94380 \end{aligned}$$

$$\begin{aligned} \text{Profit earned by Deepak} &= \left( 10 \times \frac{3}{5} \times 94380 \right) - \left( 10 \times \frac{3}{5} \times 69000 \right) \\ &= 566280 - 414000 \\ &= \text{Rs } 152280 \end{aligned}$$

$$\begin{aligned} \text{Profit earned by Mohit} &= \left( 10 \times \frac{2}{5} \times 94380 \right) - \left( 10 \times \frac{2}{5} \times 69000 \right) \\ &= 377520 - 276000 \\ &= \text{Rs } 101520 \end{aligned}$$

$$\begin{aligned} \text{Required difference} &= 152280 - 101520 \\ &= \text{Rs } 50760 \end{aligned}$$

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**S28. Ans.(b)**

**Sol.**

$$\text{Selling price of 1 share of RIL in April} = 50000 \times \frac{110}{100} \times \frac{120}{100} \times \frac{130}{100}$$
$$= \text{Rs } 85800$$

$$\text{Buying price of 1 share of RIL in March} = 50000 \times \frac{120}{100} \times \frac{115}{100}$$
$$= \text{Rs } 69000$$

$$\text{Required \%} = \frac{85800 - 69000}{69000} \times 100$$
$$= \frac{16800}{69000} \times 100$$
$$= 24\frac{8}{23}\%$$

**S29. Ans.(c)**

**Sol.**

$$\text{Selling price of 1 share of RIL in April} = 50000 \times \frac{110}{100} \times \frac{120}{100} \times \frac{130}{100}$$
$$= \text{Rs } 85800$$

$$\text{Buying price of 1 share of RIL in March} = 50000 \times \frac{120}{100} \times \frac{115}{100}$$
$$= \text{Rs } 69000$$

$$\text{Required ratio} = \frac{85800}{69000}$$
$$= 143 : 115$$

**S30. Ans.(c)**

**Sol.**

Ratio of Profit share of Maanik to Shivam

$$= ((20000 \times 4) + (30000 \times 8)) : ((32000 \times 10) + (40000 \times 2))$$
$$= 4 : 5$$

$$\text{Total profit} = 30000 \times \frac{9}{5}$$
$$= \text{Rs. } 54000$$

**S31. Ans.(b)**

**Sol. ATQ,**

Ratio of selling price to mark price of article = 4 : 5

Mark price    Selling price    Cost price

$5 \times 6$	$4 \times 6$	
$\frac{30}{3}$	$\frac{24}{4}$	$\frac{20}{5}$
30	24	20

$$\text{Discount given} = \frac{30 - 24}{30} \times 100$$
$$= 20\%$$

$$\text{When discount is doubled, then discount} = \frac{30 \times 40}{100} = 12$$

$$\text{So, new selling price} = 30 - 12 = 18$$

$$\text{Loss} = 20 - 18 = 2$$

And given 2 = 240 Rs.

$$\text{Mark price} = \frac{240}{2} \times 30 = 3600 \text{ Rs.}$$

S32. Ans.(d)

Sol.

Let the present age of Anurag be  $x$  years.  
and that of Bhavya be  $y$  years.

ATQ,

$$\frac{x+4}{y+6} = \frac{2}{1}$$

$$\Rightarrow x + 4 = 2y + 12$$

$$\Rightarrow x - 2y = 8 \dots(i)$$

Now, Chiru present age =  $2(x + y)$  years.

$$\text{So, } \frac{2(x+y)+4}{y+4} = \frac{23}{4}$$

$$\Rightarrow 8x + 8y + 16 = 23y + 92$$

$$\Rightarrow 8x - 15y = 76 \dots(ii)$$

From (i) and (ii)

$$y = 12 \text{ years.}$$

So, present age of Bhavya = 12 years



S33. Ans.(a)

Sol.

diameter of circle =  $28\sqrt{2}$  cm

Side of square = 28 cm

Since square is face of cube, So side of square = edge of cube = 28 cm

Let height of cylinder be  $h$  cm

$$\text{ATQ, } 28 \times 28 \times 28 = \frac{22}{7} \times 28 \times 28 \times h$$

On solving,  $h = 9$ cm (approx.)

S34. Ans.(b)

Sol.

Let the quantity of milk and that of water  
be  $2a$  lit and  $5a$  lit respectively.

ATQ

$$\frac{2a + x}{5a} = \frac{2}{3}$$

$$4a = 3x \dots \dots (i)$$

$$\text{And } \frac{2a+x}{5a+20} = \frac{1}{2}$$

$$2x - a = 20 \dots \dots (ii)$$

From (i) and (ii),

$$x = 16 \text{ lit}$$

S35. Ans.(c)

Sol.

Let the total work be 60 units (LCM of 12 days and 15 days)

Efficiency of Shivam = 5 units/day

Efficiency of Maanik = 4 units/day

Time taken by Shivam & Maanik together =  $\frac{60}{9} = 6\frac{2}{3}$  days

Work done in 4 days = 36 units

Work done in 2 days by Maanik = 8 units

Remaining work = 16 units

Remaining time =  $(6\frac{2}{3} + 2) - 6 = 2\frac{2}{3}$  days

Efficiency of Veer =  $\frac{16}{2\frac{2}{3}} - 4 = 2$  units/day

Required time taken by Veer alone to do the work = 30 days

S36. Ans.(c)

Sol.

**Quantity I:** Prabhas travels a distance of 100 km in 1 hour when he stops for 10 min.

Actual travel time = 60 - 10 = 50 min

Speed of car =  $\frac{100}{50} \times 60 = 120$  kmph

Required time =  $\frac{200}{120} \times 60 = 100$  min

**Quantity II:** required time =  $\frac{20}{7+3} = 2$  hour = 120 min

**Quantity I < Quantity II**

adda247

S37. Ans.(a)

Sol.

**Quantity I:** required probability =  $\frac{{}^3C_1 \times {}^5C_2}{{}^8C_3} = \frac{15}{28}$

**Quantity II:** required probability =  $\frac{{}^3C_2 \times {}^5C_1}{{}^8C_3} = \frac{15}{56}$

**Quantity I > Quantity II**

S38. Ans.(a)

Sol.

**Quantity I:** boys = 12; girls = 20 - 12 = 8

Required ways =  $12C_4 + 8C_5 = \frac{12 \times 11 \times 10 \times 9}{4 \times 3 \times 2 \times 1} + \frac{8 \times 7 \times 6}{3 \times 2 \times 1} = 551$

**Quantity II:** boys = 10; girls = 10

Required ways =  $10C_4 + 10C_5 = \frac{10 \times 9 \times 8 \times 7}{4 \times 3 \times 2 \times 1} + \frac{10 \times 9 \times 8 \times 7 \times 6}{5 \times 4 \times 3 \times 2 \times 1} = 462$

**Quantity I > Quantity II**

S39. Ans.(e)

Sol.

**Quantity I:** Given a & b are roots of  $x^2 + x - 6 = 0$

Sum of roots,  $a + b = -1$

Product of roots,  $ab = -6$

$$\text{Required value} = \frac{1}{a} + \frac{1}{b} = \frac{a+b}{ab} = \frac{-1}{-6} = \frac{1}{6}$$

**Quantity II:** we know,  $(a + b)^2 = a^2 + b^2 + 2ab = 20 + 2(8) = 36$

$$a + b = \pm 6$$

$$\text{Required value} = \frac{1}{a} + \frac{1}{b} = \frac{a+b}{ab} = \frac{6}{8} = \frac{3}{4} \text{ (when } a + b = +6\text{)}$$

$$\text{Required value} = \frac{1}{a} + \frac{1}{b} = \frac{a+b}{ab} = \frac{-6}{8} = \frac{-3}{4} \text{ (when } a + b = -6\text{)}$$

**No relation between quantity I & II.**

S40. Ans.(b)

Sol.

$$\text{Invalid votes of village A} = 50000 \times \frac{70}{100} \times \frac{20}{100} = 7000$$

$$\text{Invalid votes of village D} = 100000 \times \frac{75}{100} \times \frac{28}{100} = 21000$$

$$\text{So, required ratio} = \frac{7000}{21000} = \frac{1}{3} = 1 : 3$$

S41. Ans.(d)

Sol.

$$\begin{aligned} \text{Total valid votes of village B and E together} &= 40000 \times \frac{75}{100} \times \frac{60}{100} + 80000 \times \frac{90}{100} \times \frac{70}{100} \\ &= 18000 + 50400 = 68400 \end{aligned}$$

$$\begin{aligned} \text{Total votes polled in village A, B &\& D together} &= 50000 \times \frac{70}{100} + 40000 \times \frac{75}{100} + 100000 \times \frac{75}{100} \\ &= 35000 + 30000 + 75000 = 140000 \end{aligned}$$

$$\text{Required difference} = \frac{140000}{3} - \frac{68400}{2} = \frac{280000 - 205200}{6} = \frac{74800}{6} = 12466.67 = 12500 \text{ (approx.)}$$

S42. Ans.(a)

Sol.

$$\begin{aligned} \text{Invalid votes of village B \& C together} &= 40000 \times \frac{75}{100} \times \frac{40}{100} + 75000 \times \frac{80}{100} \times \frac{25}{100} \\ &= 12000 + 15000 = 27000 \end{aligned}$$

$$\begin{aligned} \text{Total votes polled in village C \& E together} &= 75000 \times \frac{80}{100} + 80000 \times \frac{90}{100} \\ &= 60000 + 72000 = 132000 \end{aligned}$$

$$\begin{aligned} \text{Required \%} &= \frac{27000}{132000} \times 100 = \frac{225}{11}\% \\ &= 20\frac{5}{11}\% \end{aligned}$$

S43. Ans.(b)

Sol.

$$\text{Valid votes of village E} = 80000 \times \frac{90}{100} \times \frac{70}{100} = 50400$$

$$\text{Invalid votes of village E} = 80000 \times \frac{90}{100} \times \frac{30}{100} = 21600$$

$$\text{Required \%} = \frac{(50400 - 21600)}{50000} \times 100 = \frac{28800}{500} \% = 57.6\% = 58\% \text{ (approx.)}$$



**S44. Ans.(e)**

**Sol.**

$$\text{Invalid votes in village C \& D together} = 75000 \times \frac{80}{100} \times \frac{25}{100} + 100000 \times \frac{75}{100} \times \frac{28}{100}$$
$$= 15000 + 21000 = 36000$$

Invalid votes in village A, B & E together

$$= 50000 \times \frac{70}{100} \times \frac{20}{100} + 40000 \times \frac{75}{100} \times \frac{40}{100} + 80000 \times \frac{90}{100} \times \frac{30}{100}$$
$$= 7000 + 12000 + 21600 = 40600$$

$$\text{Required \%} = \frac{40600 - 36000}{40600} \times 100 = \frac{4600}{40600} \times 100 = 11.33\% = 11\% \text{ (approx.)}$$

**S45. Ans.(c)**

**Sol.**

$$\text{Total votes polled in village A and C together} = 50000 \times \frac{70}{100} + 75000 \times \frac{80}{100}$$
$$= 35000 + 60000 = 95000$$

$$\text{Total votes polled in village B \& D together} = 40000 \times \frac{75}{100} + 100000 \times \frac{75}{100}$$
$$= 30000 + 75000 = 105000$$

$$\text{Required ratio} = \frac{95000}{105000} = \frac{19}{21} = 19 : 21$$

**S46. Ans.(a)**

**Sol.** Gujarat has started a 'Digital Seva Setu' programme to ensure optimum utilization of technology for public welfare in rural areas.

**S47. Ans.(d)**

**Sol.** ICICI Bank has launched a debit card facility for the customers availing the Loan Against Securities (LAS) from the Bank.

**S48. Ans.(a)**

**Sol.** The currency of Thailand is Thai Baht.

**S49. Ans.(b)**

**Sol.** India maintained 43rd rank on an annual World Competitiveness Index compiled by the Institute for Management Development (IMD) that examined the impact of COVID-19 on economies around the world this year.

The 64-nation list was led by Switzerland, while Sweden has moved up to the second position (from sixth last year), Denmark has lost one place to rank third. The IMD World Competitiveness Ranking ranks 64 economies and assesses the extent to which a country promotes the prosperity of its people by measuring economic well-being through hard data and survey responses from executives.



**ENGLISH**

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**S50. Ans.(d)**

**Sol.** IndusInd Bank announced the launch of 'IndusEasy Credit', a comprehensive digital lending platform that enables customers to meet their financial requirements from the comfort of their homes. A first of its kind proposition, 'IndusEasyCredit' offers a fully digital end to end process that leverages the power of India's public digital infrastructure - 'Indiastack' to offer personal loans and credit cards in a paperless, presence less and cashless manner.

**S51. Ans.(d)**

**Sol.** Goa launched the Digital Integrated System for Holistic Teaching and Virtual Orientations (DISHTAVO), an online e-learning platform.

**S52. Ans.(b)**

**Sol.** The United Nations designated the first Monday of October as World Habitat Day. In 2020, the World Habitat Day is being celebrated on 5th October.

**S53. Ans.(d)**

**Sol.** Onges are one of the most primitive tribes in India. They belong to the Negrito racial stock and they have been mainly seen near the Dugong creek in Little Andaman.

**S54. Ans.(c)**

**Sol.** It is an exit route, which is given to the existing shareholders by the acquirer of shares through a public announcement.

**S55. Ans.(c)**

**Sol.** A broker's demand on an investor using margin to deposit additional money or securities so that the margin account is brought up to the minimum maintenance margin.

**S56. Ans.(d)**

**Sol.** Cricketer Suresh Raina releases autobiography 'Believe'

Former Indian batsman, Suresh Raina has released his autobiography 'Believe - What Life and Cricket Taught Me'.

The book is co-authored by Bharat Sundaresan, Suresh Raina narrated the journey he has had for India and the golden word (Believe) from Sachin Tendulkar that he etched on his arm as a tattoo.

**S57. Ans.(c)**

**Sol.** Raja Parba- Odisha's Famous Festival celebrated

Raja Parba festival has started being celebrated in Odisha on June 14, 2021. It is a 3-day festival that celebrates womanhood.

It is believed that, during this period Mother Earth menstruates and prepares herself for future agricultural activities as the monsoon arrives.

This festival is synonymous with varieties of cakes (pithas). Thus, Odisha Tourism Development Corporation (OTDC) has also launched a special programme named 'Pitha on Wheels'. During 3 days, women don't work.

**S58. Ans.(c)**

**Sol.** Headquarters: Mandaluyong, Philippines

President: Masatsugu Asakawa

Founded: 19 December 1966

Managing Director General: Woonchong Um

**S59. Ans.(a)**

**Sol.** Adjustable-Rate Mortgages (ARMS): The initial interest rate is normally fixed for a period of time after which it is reset periodically, often every month.

**S60. Ans.(a)**

**Sol.** NOSTRO Account: A bank account held by an Indian bank with a foreign bank, usually in the currency of that country.

**S61. Ans.(d)**

**Sol.** Paid-up capital is the amount of money a company has received from shareholders in exchange for shares of stock. Paid-up capital is only created when a company sells its shares on the primary market directly to investors.

**S62. Ans.(c)**

**Sol.** Bhakra Nangal dam is a concrete gravity dam on the Satluj River in Bilaspur, Himachal Pradesh in northern India.

**S63. Ans.(c)**

**Sol.** Asian champion and star wrestler Vinesh Phogat on Friday clinched gold in the 53kg category at the Poland Open.

The Indian wrestler was in top-notch form during the game as she defeated Khrystyna Bereza of Ukraine 8-0 in Final.

**S64. Ans.(a)**

**Sol.** Policybazaar said it has got approval from regulator IRDAI to undertake insurance broking, a development that will help the company augment business and expand bouquet of services.

With this development, the company will surrender its web aggregator licence to Insurance Regulatory and Development Authority of India (IRDAI) and undertake business including insurance aggregation under the broking umbrella.

**S65. Ans.(e)**

**Sol.** Capital: Reykjavík

Currency: Icelandic króna

**S66. Ans.(d)**

**Sol.** The seat of the Court is at the Peace Palace in The Hague (Netherlands). Of the six principal organs of the United Nations, it is the only one not located in New York, USA.

**S67. Ans.(a)**

**Sol.** Global sports brand PUMA has extended its decade long partnership with former Indian Cricketer Yuvraj Singh by signing him as the face of PUMA Motorsport in India.

Yuvraj Singh will showcase his passion for fast cars and sports-inspired fashion. With this, he also joins the brand's global league of legends like Thierry Henry, Boris Becker and Usain Bolt.

**S68. Ans.(a)**

**Sol.** Amazon India has partnered with Indian Railway Catering and Tourism Corporation (IRCTC) to provide their customers with the facility to book reserved train tickets on its platform.

**S69. Ans.(a)**

**Sol.** It is an intergovernmental treaty, concluded under the aegis of the United Nations Environment Programme, concerned with the conservation of wildlife and habitats on a global scale.

**S70. Ans.(a)**

**Sol.** It is released as part of the World Bank's annual report titled Doing Business. The ranking of country is based on index averages the country's percentile rankings on 10 indicators each having equal weightage.

**S71. Ans.(b)**

**Sol.** According to 'Annual Bank Statistics of 2020' released by Swiss National Bank (SNB), the Central Bank of Switzerland.

India with Swiss Francs (CHF) 2.55 billion (INR 20,706 Crore) has been placed at 51st place in the list of foreign clients' money in Swiss Banks during 2020. The United Kingdom (UK) topped the list with CHF 377 billion, followed by the US (152 billion).

**S72. Ans.(a)**

**Sol.** WWF India has inducted Upasana Kamineni, Director, Apollo Hospitals, as "Ambassador of Forest Frontline Heroes" with the aim to appreciate the efforts of frontline workers in hospitals and in the wildlife protection space.

The focus of this will be on several States across the country covering most eco-regions.

**S73. Ans.(e)**

**Sol.** Filmmaker-writer Tahira Kashyap Khurrana has announced her upcoming book about motherhood, titled "The 7 Sins of Being A Mother".

This is her fifth book and the second she wrote amid the pandemic. Last year, the filmmaker had released 12 Commandments of Being A Woman, which she finished writing during the coronavirus-induced lockdown.

**S74. Ans.(b)**

**Sol.** 15th edition of Global Peace Index (GPI) was announced by Institute for Economics and Peace (IEP) Sydney. India has moved up by two position from its last year's ranking. It has become 135th most peaceful country while, 5th in South Asia region.

Iceland is most peaceful country worldwide since 2008 joined by other top countries like Denmark, New Zealand, Portugal and Slovenia. Afghanistan is the least peaceful country again for fourth consecutive year. Afghanistan is followed by Yemen, Syria, South Sudan, and Iraq.

**S75. Ans.(b)**

**Sol.** Every year, Autistic Pride Day is observed on June 18 globally to create awareness about autism among people and recognise the importance of pride for autistic people and its role in bringing about positive changes in the broader society.

The day is represented by a rainbow infinity symbol which denotes the infinite possibilities that autistic people have.

**S76. Ans.(b)**

**Sol.** State-owned Canara Bank on Tuesday said it will be the lead sponsor of National Asset Reconstruction Company Limited (NARCL) or bad bank with 12 per cent stake in the entity.

Bad bank refers to a financial institution that takes over bad assets of lenders and undertakes resolution. "The Indian Banks' Association (IBA), vide their letter dated May 13, 2021 requested Canara Bank to participate in NARCL as sponsor. The board of Canara Bank has given in-principle approval for taking stake in NARCL.

**S77. Ans.(b)**

**Sol.** India has decided to make CoWIN platform an open source for other countries in order to enable them to use this technology to run their own vaccination drives.

Co-WIN is a digital platform that helped in implementation of nationwide COVID-19 vaccination programme in India. It is also called as Covid Vaccine Intelligence Network. This cloud-based IT platform is supposed to handle minute details with respect to India's Covid-19 immunisation programme.

It provides for registration of beneficiaries, allocation of vaccination centres, sending text messages with name of their vaccinator and live monitoring of vials stored in cold storage.

Countries including Vietnam, Iraq, Peru, Mexico, Dominican Republic, Panama, Nigeria, Ukraine, United Arab Emirates and Uganda have expressed their interest in learning about CoWIN technology to run their vaccination programmes.

**S78. Ans.(b)**

**Sol.** Kotak Mahindra Bank has announced the launch of 'Pay Your Contact' the new feature that enables its customers to send money or make payments to any of their contacts across all payment apps simply by the beneficiary's mobile number.

The 'Pay Your Contact' service is available on the lender's mobile banking app and uses the Unified Payments Interface (UPI) platform.

**S79. Ans.(b)**

**Sol.** Recently, a high-level committee has been formed for the consultations on the creation of integrated triservice theatre commands. The committee will examine all issues and find a way forward before a formal note on their creation is sent to the Cabinet Committee on Security.

The commander of such a force will be able to bear all resources at his disposal – from the Army, the Indian Air Force, and the Navy – with seamless efficacy. The Shekatkar committee (in 2015) had recommended the creation of 3 integrated theatre commands – northern for the China border, western for the Pakistan border, and southern for the maritime role.

**S80. Ans.(c)**

**Sol.** Headquarter Location: Hyderabad, Telangana

Chairman: Subhash Chandra Khuntia

**S81. Ans.(d)**

**Sol.** Indian and Sri Lankan scientists to undertake joint research. Nine teams of scientists from India and Sri Lanka will undertake research with bilateral support from the two countries' governments.

The scientists will work on areas such as food technology, plant-based medicines, metrology, space research and applications, robotics and automation, industrial electronics, renewable energy, waste management, and information and communication technology.

**S82. Ans.(a)**

**Sol.** Despite cheapest data plans and nearly 700 million internet users, India is at a dismal 49th spot globally when it comes to internet inclusion and gender equality in accessing the world wide web, a Facebook-Economist Intelligence Unit (EIU) study has revealed.

India is tied with Thailand in 49th place this year on the scores of internet availability (77th position globally), affordability (20th spot), relevance (49th position) and readiness (29th) categories.

1st-Sweden

2nd-United States

3rd-Spain

4th-Australia

5th-Hong Kong

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**S83. Ans.(c)**

**Sol.** “To perpetuate the 50th anniversary of the first One-Day International, five ODI cricketers of the decade have been listed in the Wisden Almanack’s 2021 edition”. One cricketer has been selected from each decade between 1971 and 2021, with Indian captain being granted the award for the 2010s. England all-rounder Ben Stokes is ‘Cricketer of the Year’  
Dom Sibley, Zak Crawley, West Indian Jason Holder, Mohammed Rizwan and Darren Stevens named Wisden Cricketers of the Year in the 2021 edition of Wisden Almanack  
Australia’s Beth Mooney is ‘Leading Women’s Cricketer in the World’  
India captain Virat Kohli Wisden Almanack’s ODI player of the 2010s  
Sachin Tendulkar is the ODI Cricketer of the 1990s  
Kapil Dev was named as the ODI Cricketer for the 1980s

**S84. Ans.(c)**

**Sol.** The Indian Wrestler Vinesh Phogat has won her maiden Gold at the Asian Wrestling Championship. She won the medal beating Taipei’s Meng Hsuan Hsieh.  
Vinesh had earlier won four bronze and three silver medals. This is her third gold medal, but first at the Asian Wrestling Championship.

**S85. Ans.(e)**

**Sol.** The Ministry of Housing and Urban Affairs (MoHUA) and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) Nature Conservation and Nuclear Safety signed an agreement on Technical Cooperation titled ‘Cities Combating Plastic Entering the Marine Environment’ at a virtual ceremony in New Delhi.  
The project’s outcomes are completely in line with the objectives of Swachh Bharat Mission-Urban focusing on sustainable solid waste management and Hon’ble Prime Minister’s vision to phase out single use plastic by 2022”.

**S86. Ans.(c)**

**Sol.** Max Verstappen (Red Bull – Netherlands) won the Emilia Romagna F1 Grand Prix 2021, in Imola, Italy. This win is his first victory of the season. The race was the second round of the 2021 Formula One World Championship.  
Lewis Hamilton (Mercedes-Great Britain) finished second and Lando Norris (McLaren – Great Britain) stand third place.

**S87. Ans.(b)**

**Sol.** Miguel Díaz-Canel will succeed Raúl Castro as the Cuban Communist Party’s first secretary, the most powerful position on the island. He is the first person without the surname Castro to run Cuba since the 1959 revolution. Raúl Castro announced that he would step down from the key position of the party and hand over the leadership to a younger generation. At 60, Díaz-Canel is almost 30 years younger than his predecessor and will now hold Cuba’s two most important positions, head of the party and president of the state.

**S88. Ans.(d)**

**Sol.** Barcelona won the 2021 Copa del Rey with a 4-0 victory against Athletic Bilbao late Saturday. Barca earned the Spanish King's Cup trophy, scoring all their goals in the second half of the final at La Cartuja Stadium, Seville.

**S89. Ans.(b)**

**Sol.** The Reserve Bank of India recently set up a committee to study about the Asset Reconstruction Companies (ARC) in the country. The committee will evaluate the role of ARCs in debt resolution and will review their business model.

The Committee is headed by former RBI Executive director Sudarshan Sen. It will review the legal and regulatory framework of ARCs. It will recommend measures to improve the efficacy of Asset Reconstruction Companies.

**S90. Ans.(d)**

**Sol.** Priyanka Mohite from Satara in western Maharashtra has scaled Mt Annapurna, the 10th highest mountain peak in the world, becoming the first Indian woman climber to achieve the feat.

Mount Annapurna is a massif in the Himalayas located in Nepal that includes one peak over 8,000 metres and is considered to be one of the toughest mountains to climb.

**S91. Ans.(d)**

**Sol.** Mission serves the purpose of offering goods and services in terms of beneficiary while vision statement is a broad statement of purpose operating for future and to take others in the vision of organization.

**S92. Ans.(c)**

**Sol.** Planning is the basic requirement and important for the management process. It is the first step in the management process which deals with deciding in advance what to be done, how, when and by whom it is to be done.

**S93. Ans.(e)**

**Sol.** Recruitment process is succeeded by manpower planning process and preceded by selection process. It is the process of identifying sources of human force and attracting and motivating them to apply for the jobs in an organization.

**S94. Ans.(a)**

**Sol.** Human resource management is the process of managing people to achieve better performance. It is a strategic approach to the effective management of people in a company to help their business gain the competitive advantage.



**S95. Ans.(c)**

**Sol.** Management Information System (MIS) is the information system used for decision making and for coordination and control of information in an organization. Human resource management system, process control system, sales and marketing systems, inventory control systems are some of the management information systems.

**S96. Ans.(e)**

**Sol.** Decision making is an integral part of the planning. It implies a choice, choosing from various alternative course of action. Decision trees are extremely useful for data analytics and machine learning for prediction analysis, data classification and regression.

**S97. Ans.(e)**

**Sol.** The term communication has been derived from the Latin word 'communis' which means to share or to make common. Communication can be defined as the process of transmitting and receiving ideas accurately.

**S98. Ans.(c)**

**Sol.** Under incentive plan wage payment programs, workers are induced to increase their productivity and the employer happily increase their payments to encourage the workers towards this end. Rowan plan was introduced in 1901 by James Rowan.

**S99. Ans.(e)**

**Sol.** Motivation is one of the most important factors determining organizational efficiency. In 1957, Douglas McGregor introduced Theory X and Theory Y. These two theories distinguished traditional assumptions about the nature of people from the behavioral assumptions.

**S100. Ans.(d)**

**Sol.** Organization is a systematic arrangement of people to accomplish some specific purpose. Every organization consists of three elements: people, goal and system. Each organization is established for some purpose that is generally organizational goals.

**S101. Ans.(d)**

**Sol.** The behavioural management theory is often called the human relations movement because it addresses the human dimension of work. Behavioural theorists believed that a better understanding of human behaviour at work, such as motivation, conflict, expectations, and group dynamics, improved productivity.

**S102. Ans.(b)**

**Sol.** Organisational culture includes organisational expectations, experiences, philosophy and values that guide member behaviour and ultimately shapes employee perceptions, behaviours and understanding. (e) All of these

**S103. Ans.(e)**

**Sol.** Organising is the process of integrating, unifying and co-ordinating the activities being performed by the members for accomplishing pre-determined objectives. A good organisation structure enables people to function effectively.

**S104. Ans.(c)**

**Sol.** Organising is the process of integrating, unifying and co-ordinating the activities being performed by the members for accomplishing pre-determined objectives. A good organisation structure enables people to function effectively.

**S105. Ans.(b)**

**Sol.** Controlling is the management function which is inseparably connected with planning process. Controlling is the basis of planning and basis for appraisal.

**S106. Ans.(b)**

**Sol.** Controlling is the process of comparing the actual performance with the standard performance to ensure the activities are performed according to the plans and if not then taking corrective actions. It minimizes deviation from standards and ensure all the goals are achieved in desired manner.

**S107. Ans.(b)**

**Sol.** A management style is a particular way through which managers go about accomplishing these objectives. It varies company by company, level of management, and even from person to person. It shows the way they exercise their decisions, how they plan and how they execute their plan.

**S108. Ans.(b)**

**Sol.** According to the Milton Friedman an economist that today managers are professionals, their social responsibility is to minimize the profit. According to him their first priority should be to run the business in the best interest of owners.

**S109. Ans.(b)**

**Sol.** The delegation of authority is an organisational process where manager divides his work among the subordinates and give them responsibility to accomplish the respective tasks. The delegation of authority may be oral or written and may be specific or general.

**S110. Ans.(b)**

**Sol.** Psychological test is an objective and standard measure of a sample of human behaviour. It consists of giving to applicant a task which is representative of the job for which he is considered. His performance on the task is evaluated relative to that of the other candidates.

**S111. Ans.(b)**

**Sol.** Decision is the selection from among various alternatives. Decision making is an integral part of the planning. It implies a choice, choosing from various alternative course of action. There are major three theories of decision making: marginal, psychological and mathematical.

**S112. Ans.(c)**

**Sol.** Decision making is an integral part of the planning. It implies a choice, choosing from various alternative course of action. It is based on rational thinking and also involves certain commitment.

**S113. Ans.(e)**

**Sol.** Organisational development is a critical process that helps organisation build their capacity to change and achieve greater effectiveness by developing, improving and reinforcing strategies, structures and processes.

**S114. Ans.(c)**

**Sol.** A **Training Need** reveals a performance gap, and the gap can be filled with training. It exists when the employee does not know how to do the job. While several different approaches can be used to identify the training needs of an organisation, McGhee and Thayer's Three-Level Analysis is the most commonly used.

**S115. Ans.(d)**

**Sol.** A personnel manager is a manager responsible for administrative works such as recruitment, job analysis, job evaluation, managing wages and salaries, training administration, resolving disputes, labour law compliance and related tasks.

**S116. Ans.(e)**

**Sol.** Workers' participation also known as labour participation or employee participation in management. Workers' Participation in Management (WPM) refers to participation of non-managerial employees in the decision-making process of the organization. It gives employees mental and psychological satisfaction and increase their involvement in the organisation.

**S117. Ans.(d)**

**Sol.** An organizational structure is a system which outlines how certain activities are directed in order to achieve the goals of an organization. These activities includes rules, roles, and responsibilities. It also determines how information flows between different levels within the company.



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**S118. Ans.(e)**

**Sol.** Job analysis is a systematic process of collecting the information about nature of a job, qualities and qualifications required for a job, physical and mental capabilities to be required for a job, duties and responsibilities, physical and mental effort required to perform a job and necessary skills required to perform a job.

**S119. Ans.(d)**

**Sol.** Business ethics refers to contemporary organizational standards, principles, sets of values and norms that govern the actions and behaviour of an individual in the business organization.

**S120. Ans.(e)**

**Sol.** Business ethics refers to contemporary organizational standards, principles, sets of values and norms that govern the actions and behaviour of an individual in the business organization.

**S121. Ans.(c)**

**Sol.** A conflict of interest is a situation where a person or organization is involved in multiple interests and serves one interest could involve working against another.

**S122. Ans.(b)**

**Sol.** Consequentialism is an ethical theory that judges whether or not something is right by what its consequences are. Consequentialism theory implies 'it's the right thing to do'. According to this theory, a morally right act is one that will produce a good outcome.

**S123. Ans.(e)**

**Sol.** Ethics are the moral principles that govern the person's behaviour or conducting of an activity. This term is also applied on any system or theory of moral values or principles.

**S124. Ans.(e)**

**Sol.** Business ethics refers to contemporary organizational standards, principles, sets of values and norms that govern the actions and behaviour of an individual in the business organization

**S125. Ans.(b)**

**Sol.** Ethics are the moral principles that govern the person's behaviour or conducting of an activity. This term is also applied on any system or theory of moral values or principles.

**S126. Ans.(e)**

**Sol.** Corporate governance is the collection of mechanisms, processes and relations used by various parties to control and to operate a corporation. There are 4 P's in corporate governance: people, process, performance and purpose.

**S127. Ans.(c)**

**Sol.** Corporate governance is the collection of mechanisms, processes and relations used by various parties to control and to operate a corporation. There are 4 P's in corporate governance: people, process, performance and purpose.

**S128. Ans.(b)**

**Sol.** Ethics training helps workers cultivate an ethical workplace, with more motivated and trustworthy employees. The purpose of ethics training is to enable employees to identify and deal with ethical problems, which are implicit in everyday choices and actions.

**S129. Ans.(c)**

**Sol.** Corporate governance is the collection of mechanisms, processes and relations used by various parties to control and to operate a corporation. There are 4 P's in corporate governance: people, process, performance and purpose.

**S130. Ans.(e)**

**Sol.** In ethics, value denotes the degree of importance of some action, with the aim to determine what actions are best to do or what way is best to live, or to describe the significance of different actions. Values are the ends to which we act and come in many forms.

**S131. Ans.(b)**

**Sol.** Social responsibility is a much broader concept than legal responsibility, as legal responsibility can be fulfilled by merely complying with the law, whereas social responsibility deals with the overall welfare of society.

**S132. Ans.(b)**

**Sol.** The moral theory explains why a certain action is wrong or why we ought to act in certain ways. Moral theories provide the framework upon which we think and discuss in a reasoned way, and evaluate some specific moral issues.

**S133. Ans.(b)**

**Sol.** Green washing, also called "green sheen", is a form of marketing spin used to persuade the public that an organization's products, aims and policies are environmentally friendly.

**S134. Ans.(b)**

**Sol.** Virtue ethics is a philosophy developed by Aristotle and other ancient Greeks. This is a character-based approach to morality which assumes that we acquire virtue through practice. By practicing being honest, brave, just, generous, and so on, a person develops a moral character.

**S135. Ans.(b)**

**Sol.** Ethics are the moral principles that govern the person's behaviour or conducting of an activity. This term is also applied on any system or theory of moral values or principles.

**S136. Ans.(c)**

**Sol.** The most significant advance in modern agriculture is the **drip-irrigation system invented in Israel.**

**S137. Ans.(b)**

**Sol.** Explanation:- This lab is performed to determine the **specific gravity** of soil by using a **pycnometer**. **Specific gravity** is the ratio of the mass of unit volume of soil at a stated temperature to the mass of the same volume of gas-free distilled water at a stated temperature.

**S138. Ans.(c)**

**Sol.** Explanation:- An imaginary **line** or a **line** on a map or chart that connects all points having the same depth below a water surface.

**S139. Ans.(c)**

**Sol.** Explanation:- **Strip cropping** is a method of **farming** which involves cultivating a field partitioned into long, narrow **strips** which are alternated in a **crop** rotation system. It is used when a slope is too steep or when there is no alternative method of preventing soil erosion.

**S140. Ans.(b)**

**Sol.** Explanation:- Dryland farming and dry farming encompass specific agricultural techniques for the non-irrigated cultivation of crops. Dryland farming is associated with drylands, areas characterized by a cool wet season followed by a warm dry season.

**S141. Ans.(c)**

**Sol.** Explanation:- The term **cropping system** refers to the **crops**, **crop** sequences and management techniques used on a particular agricultural field over a period of years. It includes all spatial and temporal aspects of managing an agricultural **system**.

**S142. Ans.(c)**

**Sol.** Explanation:- The concept of **zero tillage** was started in early 1940s by Edward Faulkner.

**S143. Ans.(b)**

**Sol.** Explanation:- The System of Rice Intensification (**SRI**) is a farming methodology aimed at increasing the yield of rice produced in farming. It is a low-water, labor-intensive **method** that uses younger seedlings singly spaced and typically hand weeded with special tools.

**S144. Ans.(a)**

**Sol.** Explanation:- Origin place of Rice is South East Asia (Burma)

**S145. Ans.(d)**

**Sol.** Explanation:- About 58% of the mass of **organic matter** exists as **carbon**.

**S146. Ans.(b)**

**Sol.** Explanation:- Rhizobium inoculant is **used** for leguminous crops. Azotobacter can be **used** with crops like **wheat**, maize, mustard, cotton, potato and other vegetable crops.

**S147. Ans.(c)**

**Sol.** Explanation:- Alluvial **soil** is the largest **soil group in India**. Alluvial **soil** is formed by the deposition of silt by the Indo-Gangetic-Brahmaputra rivers. This **soil group** covers around 46% of the total land area. It supports nearly half of the **Indian** population by providing the **most** productive agricultural lands.

**S148. Ans.(a)**

**Sol.** Explanation:- At present about 48.1% of **Indian soils** are **deficient** in diethylene-triaminepentaacetate (DTPA) extractable zinc.

**S149. Ans.(c)**

**Sol.** Explanation:- Drip or trickle **irrigation** is the **best** and only option **recommended** for olive growing in the desert environment under **saline** conditions. A drip **irrigation system** keeps the **soil** moisture at a continuously high level at the root zone, and maintains a low level of **salt** concentration.

**S150. Ans.(b)**

**Sol.** Explanation:- Sowing pattern used in dry land is broadcasting methods.

**S151. Ans.(c)**

**Sol.** Explanation:- **Mulching** is the process of covering the soil around the plant root zone to protect the roots from adverse micro climatic conditions.

**S152. Ans.(b)**

**Sol.** Explanation:- Kings of coarse grains is jowar.

**S153. Ans.(b)**

**Sol.** Explanation:- In rainfed areas, **terracing** is **usually practised on slopes ranging** from 6 to 33 per cent. It may have to be used on gentle **slopes**, if irrigation is to be applied to the crop.

**S154. Ans.(a)**

**Sol.** Explanation:- Nursery area required for seedling of rice one hectare field is 0.10 ha.

**S155. Ans.(c)**

**Sol.** Explanation:- The Planning Commission, as a result of the mid-term appraisal of the planning targets of the Seventh Plan, has divided the country into fifteen broad **agro-climatic zones** based on physiography, soils, geological formation, **Climate**, cropping patterns, and development of irrigation and mineral resources

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**S156. Ans.(b)**

**Sol.** Explanation:- The irrigation commission of India defines **drought as a situation occurring in any area** where the **annual rainfall is less than 75% of normal rainfall**. Prolonged deficiencies of soil moisture adversely affect crop growth indicating incidence of agricultural **drought**.

**S157. Ans.(b)**

**Sol.** Explanation:- *Contour farming*, the practice of tilling sloped land along lines of consistent elevation in order to conserve rainwater and to reduce soil losses from surface erosion.

**S158. Ans.(d)**

**Sol.** Explanation:- **Soil conservation methods**

Afforestation, Checking Overgrazing, Constructing Dams, Changing Agricultural Practices, Crop Rotation, Strip Cropping, Use of Early Maturing Varieties, Contour Ploughing.

**S159. Ans.(a)**

**Sol.** Explanation:- Southwest **Monsoon** period is the principal **rainy season** for the **Indian** subcontinent. This is the summer **monsoon** period where the southwest **monsoon** holds away over the country. The **whole** country receives nearly **75%** of its **rainfall** during this period.

**S160. Ans.(a)**

**Sol.** Explanation:- A greenhouse gas is a gas that absorbs and emits radiant energy within the thermal infrared range, causing the greenhouse effect. The primary greenhouse gases in Earth's atmosphere are water vapor, carbon dioxide, methane, nitrous oxide, and ozone.

**S161. Ans.(b)**

**Sol.** Explanation:- 17 elements essential for plant growth, eight are **micronutrients**: boron (B), chlorine (Cl), copper (Cu), iron (Fe), manganese (Mn), molybdenum (Mo), zinc (Zn) and nickel (Ni).

**S162. Ans.(a)**

**Sol.** Explanation:- **Greenhouse effect**, a warming of Earth's surface and troposphere (the lowest layer of the atmosphere) **caused** by the presence of water vapour, carbon dioxide, methane, and certain other **gases** in the air. Of those **gases**, known as **greenhouse gases**, water vapour has the largest **effect**.

**S163. Ans.(a)**

**Sol.** Explanation:- **Acid rain** leaches aluminum from the **soil**. **Acid rain** also removes minerals and nutrients from the **soil** that trees need to grow.

**S164. Ans.(b)**

**Sol.** Explanation:- **Salinization** is the process by which water-soluble salts accumulate in the soil.



**S165. Ans.(a)**

**Sol.** Explanation:- Crop rotation **enhances soil fertility**.

**S166. Ans.(b)**

**Sol.** Explanation:- *Azadirachta indica*, commonly known as neem, nintree or Indian lilac, is a tree in the mahogany family Meliaceae. It is one of two species in the genus *Azadirachta*, and is native to the Indian subcontinent and most of the countries in Africa.

**S167. Ans.(b)**

**Sol.** Explanation:- **Plants that die after flowering** are Bamboo which is an unusual **flowering** phenomenon.

**S168. Ans.(b)**

**Sol.** Explanation:- The **April 22 date** was selected in part because it fell between colleges' spring break and final exams, and also from the observance of **Arbor Day**, which began in Nebraska in 1872, a **day** when people are encouraged to plant trees.

**S169. Ans.(b)**

**Sol.** Explanation:- **Genetically modified** organisms (GMOs) can be **defined** as organisms (i.e. plants, animals or microorganisms) in which the genetic material (DNA) has been altered in a way that does not occur naturally by mating and/or natural recombination.

**S170. Ans.(a)**

**Sol.** Explanation:- **Rainwater harvesting** is the collection and storage of rain for reuse on-site, rather than allowing it to run off. The stored water is used for various purposes, such as gardening, irrigation.

**S171. Ans.(a)**

**Sol.** Explanation:- **Triticale** is a **hybrid** of wheat (Triticum) and rye (Secale) first bred in laboratories during the late 19th century in Scotland and Germany.

**S172. Ans.(c)**

**Sol.** Explanation:- Maize is **called 'queen of cereal'** as it is grown throughout the year due to its photo-thermo- insensitive character and highest genetic yield potential among the cereals.

**S173. Ans.(c)**

**Sol.** Explanation:- **pH** is a measure of how acidic/basic water is. The range goes from 0 - 14, with 7 being neutral. pHs of less than 7 indicate **acidity**, whereas a **pH** of greater than 7 indicates a base.

**S174. Ans.(a)**

**Sol.** Explanation:- The deficiency of zinc in **rice causes khaira disease**. They existed as smaller patches in the nursery or might be observed in the main-land of **rice**. The leaves are discoloured. Growth of the plants is limited and plants stunted.

**S175. Ans.(d)**

**Sol.** Explanation:- A **soil pH** value above **8.5** indicates the presence of sodium. High-sodium **soils** may reach **pH** values up to 10. Such high-sodium **soils** are termed “sodic” **soils**.

**S176. Ans.(c)**

**Sol.** You can move a letter, word or paragraph by first selecting it, cutting it and then pasting it to the intended location.

**S177. Ans.(c)**

**Sol.** In MS Word, a document is saved with the .doc extension by default.

**S178. Ans.(a)**

**Sol.** Decimal number system has unique 10 digits, that is, from 0 to 9, to represent a number and its base (or radix) is 10. The decimal number system is also called a base-10 system as it has 10 digits.

**S179. Ans.(d)**

**Sol.** A blog is a regularly updated website or web page, typically one run by an individual or small group that is written in an informal or conversational style.

**S180. Ans.(c)**

**Sol.** The first SIM card was developed in 1991 by Munich smart card maker Giesecke & Devrient, who sold the first 300 SIM cards to the Finnish wireless network operator Radiolinja. A subscriber identity module is a removable smart card for mobile phones. SIM cards store the required information to identify the mobile device.



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