Radar DI for SBI Clerk/ RBI Assist. Mains – Data Interpretation
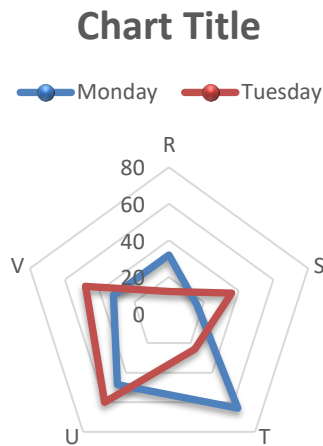
Radar DI

Directions (1 – 5): Study the following information and answer the following questions:

Following graph show the time taken by 5 different persons to complete a Job on 2 different days.

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Radar DI for SBI Clerk/ RBI Assist. Mains – Data Interpretation

Chart Title

Monday — Tuesday

Note: Total Work is Not same for both of the day

1. On Monday 1/2 of the work is completed by R, S and T and rest of the work is completed by U & V on an alternative day, starting from U. Then find the total time required to complete the job. (Approx.)?

a) 15

b) 16

c) 14

d) 13

e) none

2. What is the ratio of the efficiency of R and S together on Monday to that of Tuesday if total work is same for both of the day.

a) 25 :26

b) CNB

c) 27:32

d) 77:35

e) 1:3

3. if R, T and U work alternatively on Tuesday to complete the 17 time of the total work then what is the time to complete the work.

a) 220

b) 360

c) 260

d) 420

e) 110

4. Time taken by R and S Together to complete total work on Monday is what %es more or less than that of Tuesday by the same persons?

(A) 770/27 %

(B) 700/27 %

(C) 89/5 %

(D) 50 %

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(E) none

5. T, U and V started the work on Tuesday and want to complete total work in 10 days. So by what %es the efficiency of T is increased in order to achieve the target on time?
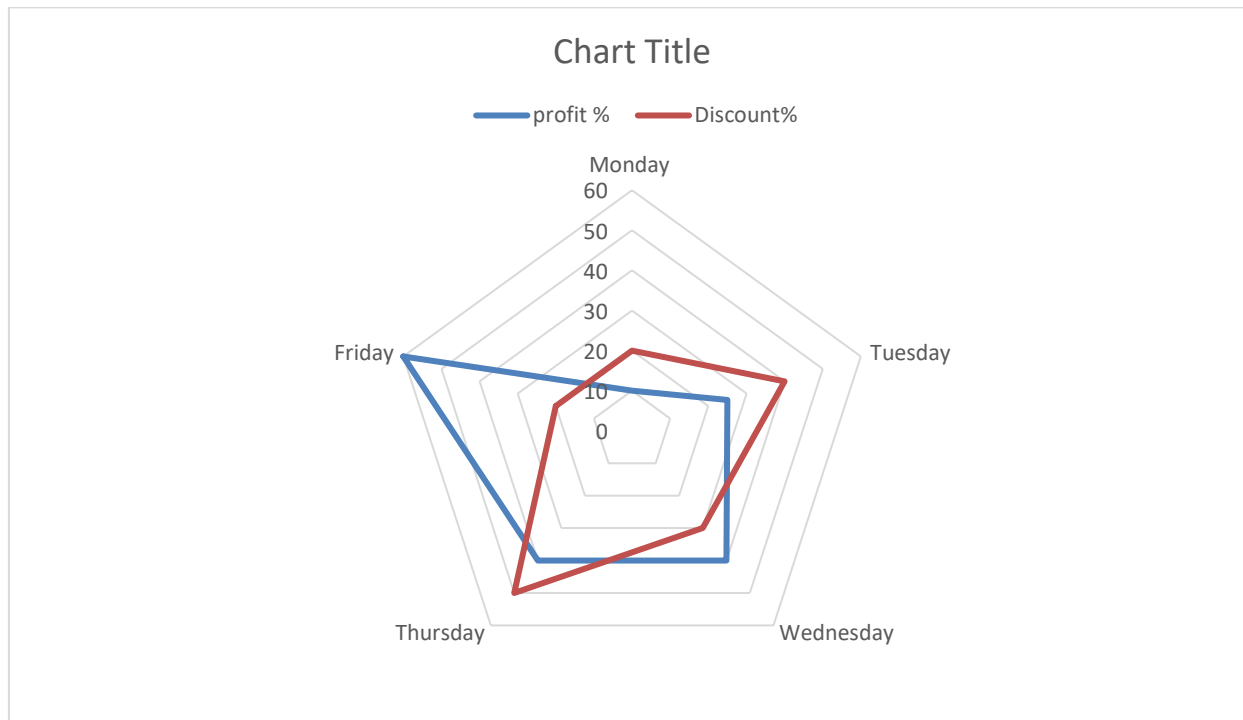
a) 50

b) 40

c) 30

d) 20

e) Not possible with give situation

Directions (6 – 10): Answer the questions based on the information given below.

The following diagram show the %es of profit and discount allowed while selling A face mask on 5 different days.

6. On Tuesday 1 face mask is sold for Rs. 1080. In order to earn profit of Rs. 1080, how many unit of Face mask has to sold?

a) 5

b) 6

c) 7

d) 8

e) None of these

7. On Friday, Special offer is allowed apart from initial discount another discount of 20 is allowed on a minimum purchase of 100 units of mask. If a

customer wants to purchase 102 masks than what is the Total amount he has to pay.

a) 4600

b) 4400

c) 4200

d) Can't be determined

e) None of these

8. If the Ratio of the C.P on Tuesday and S.P of Wednesday is 1:1. And total profit earned on selling 1 unit of mask on each day is 1800. Then find out the sum of the cost price of both the article sold.

a) 5760

b) 5500

c) 5320

d) 4750

e) none

9. What is the Ratio between the cost price on Friday to the cost price on Monday if selling price is same for both of the day.

a) 11:16

b) 11:15

c) 16:11

d) 15:19

e) None of these

10. On Saturday discount %es is increased by 25 as compared to previous day. And also expected to earn 80% profit. Then what is the amount of profit if amount of discount is 225.

a) 410

b) 430

c) 320

d) 300

e) None of these

Directions (11 – 15): Answer the questions based on the information given below.

Radar DI for SBI Clerk/ RBI Assist. Mains – Data Interpretation

Chart Title

Green, Red, Yellow, Black — Bag 1, Bag 2
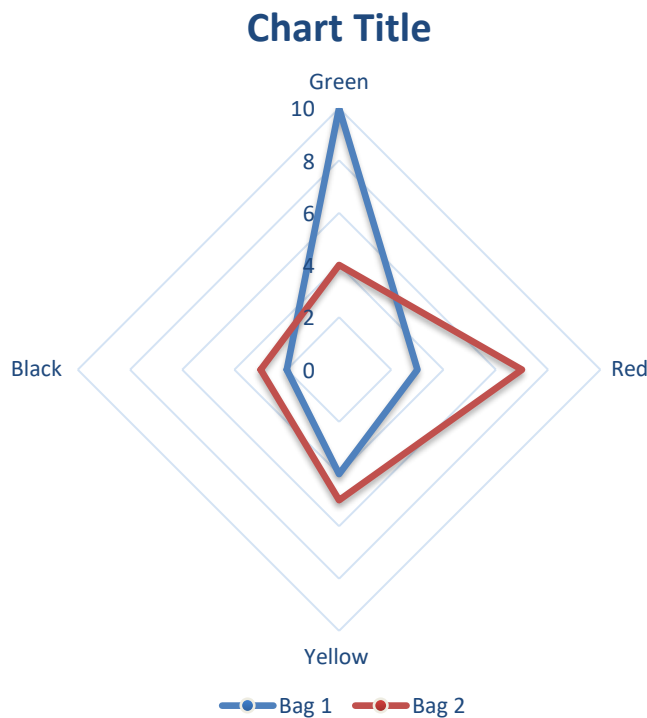
11. What is the probability to draw 4 Red ball from bag 2 and 2 green ball from bag1.

A. 175/73644

B. 1546/2534

C. 2453/125458

D. none

E. 157/15254

12. Probability to Draw 2 yellow ball or 2 red ball from bag one is what %es of the probability to draw same from Bag 2.

a) **900/31%**

b) 800/45%

c) 2/17 %

d) 110%

e) None of these

13. Red ball of bag 1 and 2 are mixed along with the yellow ball of bag 1 and 2 in some other bag. Now 1 ball is drawn. Find the probability that the drawn ball is either red or yellow ball.

a) 1/4

b) 1/9

c) 7/4

d) 8/41

e) None of these

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14. From Bag 1. 2 red ball is drawn and put into 2nd bag Then 4 ball is drawn from bag 2. Find out the probability that each ball is of different color.

A) 0.08

B) 0.32

C) 0.09

D) 0.12

E) None of these

15. If X number of pink balls is inserted in bag 1 and 2x number of same balls is inserted in Bag 2. And probability of Drawing 2 red ball from bag one is 3/276. Then find the probability of drawing 2 red ball from bag2.

A) 3/59

B) 3/58

C) 3/56

D) 3/52

E) 5/58

Directions (15-20): Answer the questions based on the information given below.

Following diagram show the percentage of valid vote casted in five different village namely A.B.C, D&E. Also, the valid vote percentage by female in this village out of total valid votes
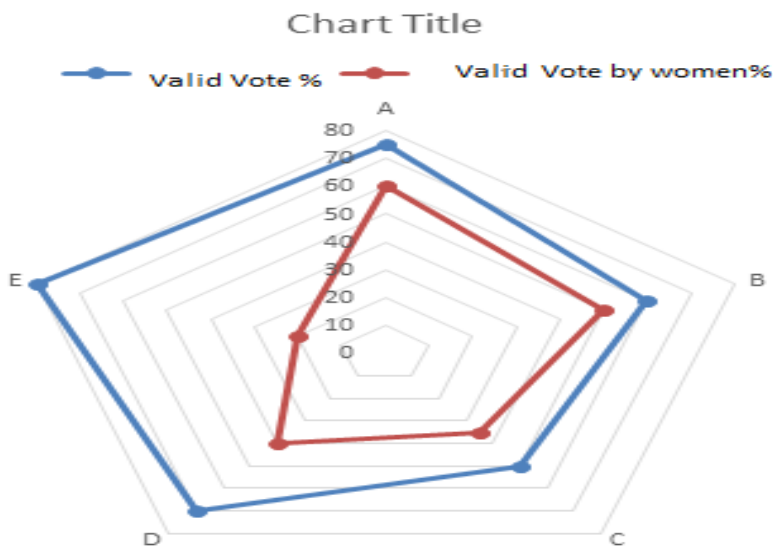
Following table shows the ratio between male and female of invalid votes casted in five different village

VILLAGE	Total Vote	MALE: FEMALE (Invalid votes)

A	4000	1:1
B	4000	2:3
C	4000	7:3
D	4000	3:1
E	4000	3:5

16. Total valid votes of Male from village A and B together is what percentage more or less than the total valid vote by female from C and D together?

A) 28/29%

B) 27/91 %

C) 29/91 %

D) 42/103%

E) None of the above

17 Total invalid votes from A&C is what percentage of total vote casted in all the village together.

A) 15%

B) 21.50%

C) 35

D) 40%

E) none of these

18. If all invalid votes are related to only a and b village and ratio of invalid votes by male from A and B together to female from A and B together is 5 ratio 7. Then find out total vote casted in village B is how much more/less than the total vote casted in village A.

A) 3900

B) 3800

C) 3270

D) 3750

E) 2800

19. Average valid vote casted in first three village is how much more or less than the average invalid votes casted in all the villages together.

a) 1145

b)1142

c)1147

d) 1130

e) None of these

20. If in another village F total vote casted is 70% more than the total vote casted in village D. then find the total valid votes casted in village F?

a) 526

b) 1023

c) 2003

d) 1226

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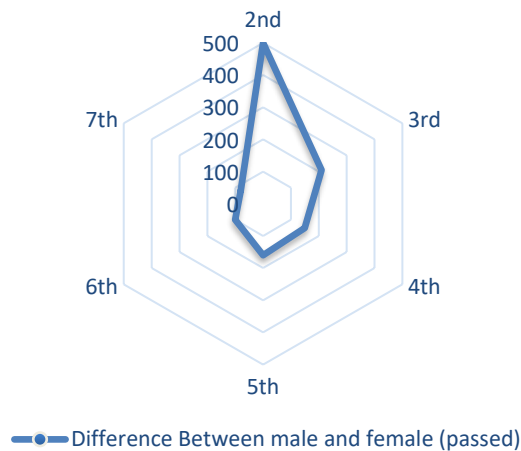
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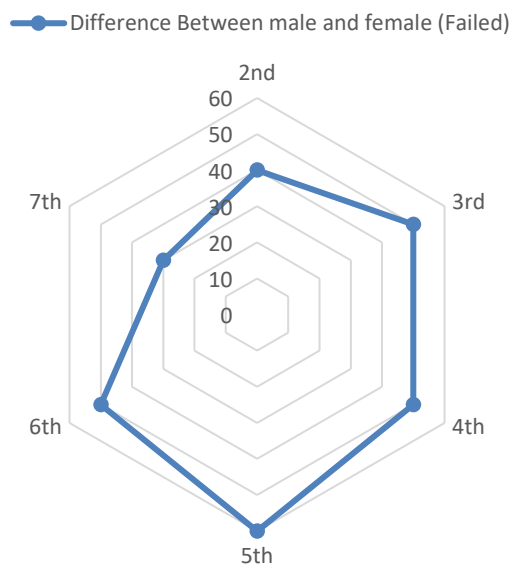
e) CND

Directions (21 – 25): Study the information carefully and answer the question asked below.

Following diagram show the difference between male and female who passed the exam.

Difference Between male and female (passed)

Difference Between male and female (Failed)

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Class	M:F (Passed)	M:F (Failed)
2	2:7	7:5
3	9:2	3:4
4	7:4	1:2
5	5:1	2:1
6	3:2	4:3
7	2:1	2:3

21. What is the Ratio between total number of student in class 3 and 4 together to the Total no of student in class 7th.?

a) 162:39

b) 155:39

c) 138:39

d) 39:158

e) none of these

22. Female from class 2nd and 3rd is what %es of the male from same class.?

a) 36/55%

b) 34/45%

c) 53/38%

d) 49/45%

e) none of these

23. what is the difference between the average no of boys to the average no of Girls from all the Scholl?

a) 110/3

b) 114/3

c) 55/7

d) 152/14

e) None of these

24. what is the ratio between total no of boys from all the school together to the total no of girls from all the class together?

a) 10:11

b) 10:9

c) 9:10

d) 11:12

e) None of these

25. Total no of student from 2nd , 4th and 6th is what %es out of total no of students from all the class together?

a) 66.25

b) 59.70
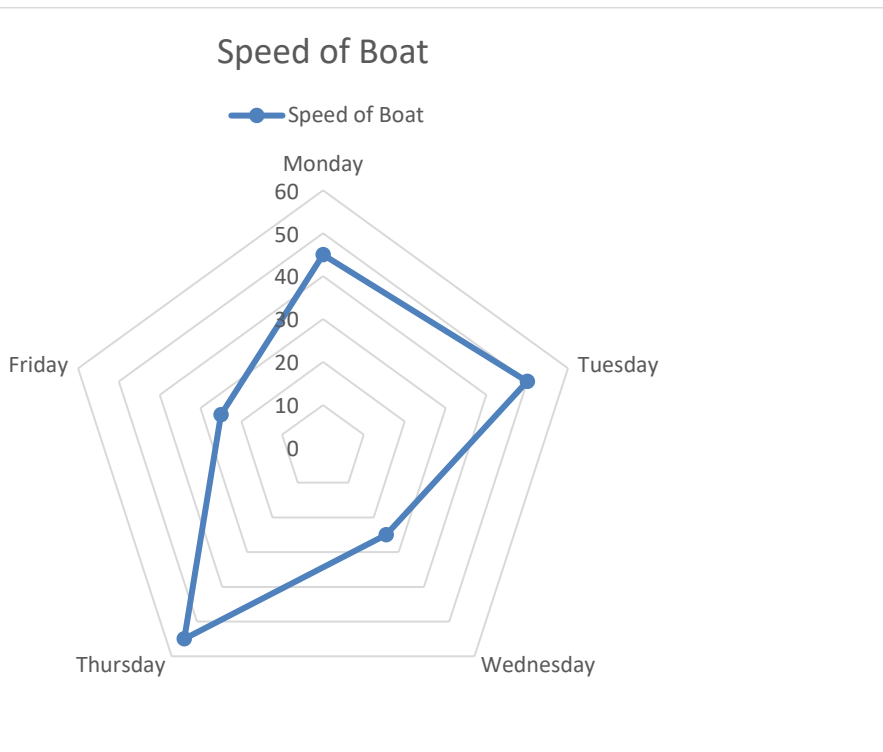
c) 55.75

d) 64.35

e) None of these

Directions (26 – 30): Read the following information carefully and answer the following questions carefully.

Day	Upstream Speed: Downstream speed
Mon	4:5
Tuesday	3:7
Wednesday	2:3
Thursday	5:6
Friday	1:4

Following diagram show the speed of Boat

Speed of Boat

26. On Monday 240 km downstream and 300 km upstream distance is covered in Y time. What is the value of Y?

a) 12.5

b) 12.3

c) 12.1

d) 12.6

e) 12.7

27. Average Downstream speed is what %es more or less than the average Upstream speed on Tuesday and Wednesday together?

a) 110%

b) 120%

c) 100%

d) 135%

e) 105%

28. On a river Trip a boat is covered 250 km downstream on Thursday and return upstream on the next day. Again, he travelled upstream for 150 km more on same day. Find total time taken to cover the distance mentioned above?

a) 185/7 hr.

b) 255/6 hr.

c) 421/13hr.

d) 8/13hr.

e) 265/6 hr.

29. On Friday total Distance covered upstream and downstream is 2X km in (1:1) in 10 hr. while on

Tuesday Ratio between distance covered Downstream to Upstream 5:3. find out the time take to cover the distance on Tuesday. (Note- Total distance is same for all day)?

a) 25/8

b) 24/7

c) 25/3

d) 8/7

e) None of these

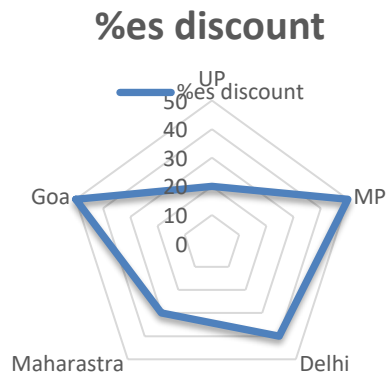**30. Distance covered on Friday (Downstream) is 33-1/3 % more than the distance covered on Wednesday (Downstream). Time taken to cover total distance on Friday and Wednesday (Downstream) is 14hr. find the difference between the Downstream distance covered on Friday and Wednesday?**

a) 70

b) 75

c) 46

d) 50

e) None of these

Directions (31 – 35): Read the following information carefully and answer the following questions given below.

Following Graph shows % discount, while table shows the Buying price and Selling price of corona kit in 5 Different state.

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%es discount

State	Buying price	Selling price
UP	200	180
MP	220	250
Delhi	400	360
Maharashtra	500	660
Goa	700	840

31. Marked price of corona kit in UP is what %es more or less than the Average Marked price in Delhi and Goa together?

a) 475.127 %

b) 387.80%

c) 406.667 %

d) 361.20%

e) None of these

32. What is ratio between combined loss on selling those items which incurred loss to the combined profit on selling items which incurred profit?

a) 2:11

b) 3:10

c) 7:19

d) 6:11

e) None of these

33. Marked price is increased by what %es, in order to earn 75% profit on selling corona kit in Maharashtra, if the discount %es remains the same?

a) 32.55%

b) 22.55%

c) 17.52%

d) 16.25%

e) 28.74%

34. Marked price of corona kit in Gujarat is same as the Average marked price in goa and Delhi together. Also after allowing 2 discount of 10 %& 15 %and profit earned is 13.5. then find the cost price of 2000 corona kit in Gujarat?

a) 1623200

b) 3121000

c) 1173500

d)1717200

e) None of these

35. What is combined profit or loss %es when only one unit of corona kit is sold in each state?

a) 8%

b) 30%
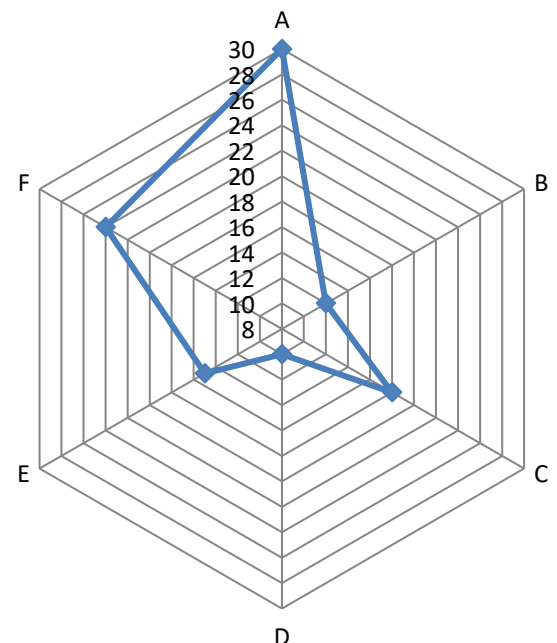
c) 17%

d) 21%

e) None of these

Directions (36 – 40): Study the following data carefully and answer the questions:

The given line graph shows number of days taken by the A, B, C, D and E to complete the work.

36. A started the work and left after x days and then F work for y days and then left the work. After F left, D complete the remaining work in 3 days and ratio of the value of x to y is 1:2, find the value of y?

a) 3 days

b) 8 days

c) 5 days

d) 12 days

e) 16 days

37. A, B and C together can starts the work. If C works with 75% of his efficiency and A worked 25% more efficiently. All together gets the total wages Rs.6000. Find the individual wage of A?

a) Rs.1200

b) Rs.1500

c) Rs.1800

d) Rs.2000

e) None of these

38. A, D and F starts works on alternatively, starting from F, then A and then D. If A works with (3/4)th of his efficiency, D works with (1/2)th of his efficiency and F works with 66(2/3)% more than his efficiency, in how many days the work will be completed?

a) 20(7/9) days

b) 21(7/9) days

c) 22(7/9) days

d) 23(7/9) days

e) 19(7/9) days

39. E worked for x days and then left the work, A and C together can complete the remaining work in (x + 2.5) days. If E complete 33(1/3)% of the work in x days, find the value of x?

a) 5 days

b) 8 days

c) 10 days

d) 12 days

e) 16 days

40. On Thursday the efficiency of A is increased by 25% as compared to Tuesday while Efficiency of E is decrease to 82.8%. If total work is also increased by 16-2/3%. Then find out the time taken by A and E to complete the task on Thursday. (Total work is same for Monday and Tuesday)

a) 8.4

b) 7.5

c) 9.0

d) 10

e) 10.5

Directions (41-45): Read the question carefully and answer the question.

Following Radar graph show the number of different type of question asked in 4 subject, (Quants, Reasoning, English, and GA) each subject has different Type of question of different marks (6, 3, 2, 1 and 0.5marks)
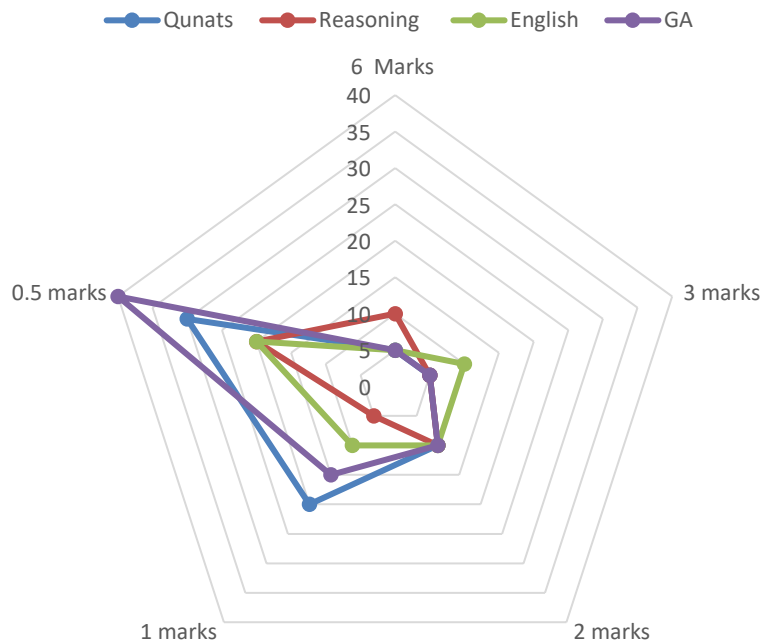
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NOTE:

Maximum marks 100 for all

There are negative marks of 1/4 of the total marks if question is wrong

No Deduction for unattempt question

41. In an exam of Quants Ram has attempted all 70 question. 20 %es of his total attempt is wrong. Only 2question of 6 marks and rest 0.5 marks question were wrong. Then find out total %es of mark scored by him?

a) 50%

b) 77.5%

c) 1/4%

d) 2/3%

e) None of these

42. In the paper of Reasoning and English total marks gain by a student is 140 which in the ratio of (4:3). If only 2 and 3 marks question were wrong in both the subject, then find the total number of question wrong from both the subject?

a) 20

b) 25

c) 30

d) Can't be determined

e) None of these

43. Total 6&3 marks question from all the subject is what %es more or less than that of total number of questions of 1&2 marks from all of the subject together?

a) 400/9%

b) 500/9%

c) 409/9%

d) 400/11%

e) None of these

44. In a paper of Quants minimum passing marks is 30. And a person has attempted only 30 question out of which 10 question of 1 marks, 16 question of 0.5 marks and rest of 6&3 marks in the ratio of 3:1. If all

the question attempted is correct then find out how many marks more or less than the minimum marks a person has scored?

a) 9 more

b) 5 less

c) 10 less

d) 5 more

e) None of these

45. In order to pass in GA how many minimum numbers of question that a person has to attempt from GA section. If minimum %es of passing Marks is 33%?

a) 5

b) 4

c) 6

d) 11

e) Can't be determined

Directions (46-50): Read the question carefully and answer the question.

Following diagram shows the %es of infected person out of Total population.
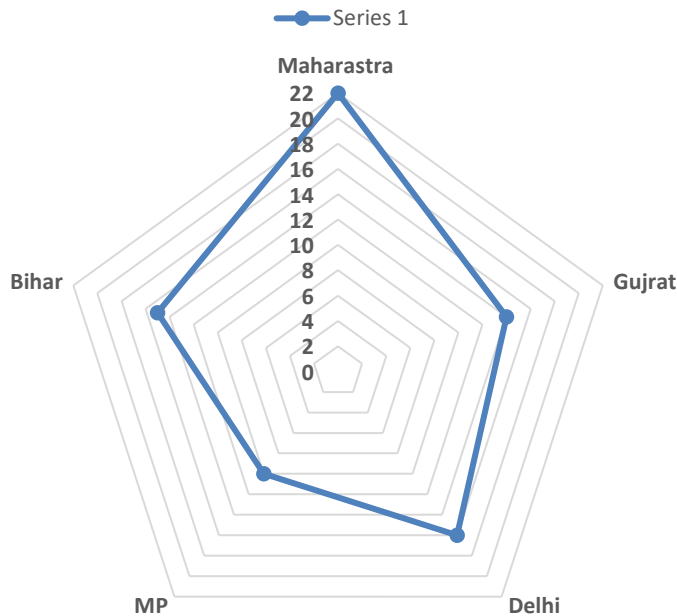
State	Total population	Male: Female (infected)
Maharashtra	50000	7:4
Gujarat	40000	4:3
Delhi	15000	3:5
MP	30000	1:2
Bihar	20000	1:1

46. Total Infected Female from Delhi and MP Together is what %es of Total Male infected from Gujarat and Bihar Together?

a) 64.128%

b) 72.916%

c) 88.524%

d) 77.825%

e) None of these

47. There are 31000 males in Maharashtra, then find out Unaffected female from Maharashtra is what %es of total population of Maharashtra?

a)15%

b) 45 %

c) 30 %

d) 50 %

e) None of these

48. Average number of females infected from Corona is how much more or less than the average number of male Infected from corona, from all the state together?

a) 520

b) 480

c) 440

d) 320

e) 340

49. Average number of infected male and female from MP and Bihar is What %es more or less than the

Average number of infected male from all the state together?

a) 13.13 %

b) 26.78 %

c) 37.56 %

d) 4.82 %

e) None of these

50.Find the total number of Uninfected people from all the state together?

a) 129000

b) 129500

c) 129800

d) 127500

e) 142500

Radar DI – Answer and Explanation

1. Answer: E)

Given - time taken

	Monday	Tuesday
R	32	12
S	16	36
T	64	24
U	48	60
V	32	48

On Monday

Total work is LCM of time taken by All.

TW= 192

And Efficiency is TW/Time taken

R= 192/32 = 6

S= 192/16 = 12

T= 192/64=3

U = 192/48=4

V = 192/32=6

NOW ½ of the work is completed By R S T in

$192 \times 1/2 \times /(6+12+3) = 32/7$

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And remaining work 192/2 = 96 is completed by U and V on rotation. Starting from U

On 1st day work by U = 4

On 2nd day work by V= 6

In 2-day, total work done is = 4+6=10

In 18-day, total work done is = 10*9=90

On 19th day work by U is = 4

And rest work (96-90-4 = 2) is now completed by V in 2/6 days

So total work required is = 32/7 + 19 + 2/6 = 23.9 days or 24 days approx.

2. Answer: C)

Time taken by R & S is 32 and 16 Respectively

And ration of efficiency is = reverse ration of time

(Note TW=32 LCM of Time taken by them)

On Monday efficiency of R&S is (1:2) and sum of efficiency is 3.

On Tuesday if total work is same then the efficiency is 32/12 & 32/36 and sum of efficiency is 32/9

Now the ratio is = 3:32/9 or 27:32

3. Answer: B)

On Tuesday time taken by R, T & U to complete the work is 12, 24 and 60 respectively.

Total work is (LCM of time taken) – 120

Now their efficiency is (TW/time) is 10, 5 and 2 respectively

work done alternatively, then total work done by them in 3 days is = 10+5+2=17 **(3-day work 17)**

now they have to complete 17 time of total work 120 = 120*17

now time require to finish the job is = **120*3 =360 days**

4. Answer: B)

On Monday time taken by R and S is 32 and 16 respectively

Total work (LCM of time taken) = 32

Efficiency of R & S on Monday (total work /time)

R = 32/32 = 1 & S = 32/16 =2

Time taken to finish work on Monday is = 32/3

On Tuesday time taken by S and T is 36 and 24 respectively

Total work (LCM of time taken) =72

Efficiency of S & T on Monday (total work /time)

S =72/36 =2 & T= 72/24 =3

Time taken to finish work on Tuesday is = 72/5

NOW

%es more/less = (32/3 – 72/5) ÷ 72/5 = 700/27%

5. Answer: A)

On Tuesday time taken by T, U and V is

24, 60 and 48 respectively.

Total work is (LCM of time taken – 240)

Efficiency of T, U and V is (TW/Time)

T- 240/24=10   U- 240/60=4   V- 240/48=5

Now they have to complete the total work in 10 days

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That means total efficiency required is = 240/10 = 24

But the combined Efficiency of T, U and V is 10+4+5=19

So, T has to increase his efficiency by 5 in order to achieve total efficiency 24

So % es increase in efficiency of T is 5/10*100= 50%

(6 – 10):

6- Answer: A)

profit % - 25 & Discount % - 40

 Let – MP – 100 then discount is 40

And SP = 60, and Cost price – 60/125 * 100 = 48

Profit = 60-48=12

Given SP=1080

And we have to earn profit of 1080 which is equals to SP

So By above equation

Profit on 1 unit is =12

So in order to earn profit of 60 we have to sold 5 unit.

7- Answer: D)

On Friday – given (profit %=60 & Discount %=20 & 2nd discount is 20%)

Let, MP- 100 then SP- 100-20-16=64

And CP = 64/160 * 100 = 40

Since noting is mentioned about actual value or price

So we can't find the answer.

8- Answer: A)

On Tuesday (Profit – 25% & Dis- 40%)

Let MP-100x then SP-100-40=60 and CP – 60/125 * 100

= 48x

On Wednesday (profit %es -40 & Dis. – 30%)

Let MP –100y then SP-100-30=70 and CP – 70/140 *100= 50y

According to the question CP of Tuesday and SP of Wednesday is equal.

So, 48x : 70y = 1:1 --- to equalize we come to know that X is to multiply with 70 and Y is to multiply with 48.

Hence,

CP of Tuesday = SP of Wednesday = 3360x

Now total profit is (given) = 840x+960x=1800

X=1

Sum of the Cost price of both the article is

(48*70+50*48)*1 = 3360+2400=5760

9- Answer: A)

On Monday (profit % - 10 & Discount % - 20)

Let, MP – 100, SP-100-20=80 and CP- 800/11

On Friday (profit % - 60 & Discount % - 20)

Let, MP – 100, SP-100-20=80 and CP- 80/160*100 = 50

Clearly SP is same in both the day

So ratio is

50 : 800/11 = 11:16

10- Answer: D)

On Saturday

Discount % is = 20*125%= 25% and profit %= 80%

Let MP=100 SP=100-25=75 and CP- 75/180*100 = 375/9

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Given that Discount =25=225 (1 unit =9)

Profit = 75/180*80 *9 = 300

11. Answer: A)

Color	Bag 1	Bag 2
Green	10	4
Red	3	7
Yellow	4	5
Black	2	3

4 red ball from bag 2 = 7C4

2 green ball from Bag 1 = 10C2

Probability = **7C4/19C4** ∗ 10C2/19C2 = 175/**73644**

12. Answer: A)

2 yellow or 2 Red ball from bag 1 = 4C2+3C2

2 yellow or 2 Red ball from bag 2 = 5C2+7C2

Probability (Bag 1) = 4C2+3C2/19C4

Probability (Bag 2) = 5C2+7C2/19C4

NOW

%es = 4C2+3C2/19C4 ÷ 5C2+7C2/19C4 = **900/31%**

13. Answer: B)

After process

Total Red ball in New bag = 10

Total yellow Ball in new bag= 9

Probability (yellow or red) = 10C1 + 9C1 ÷ 19C2 = 1/9

14. Answer: C)

Now in bag to

Green ball = 4 , Red ball =7+2=9 Yellow Ball = 5 and Black ball = 3

Now Desired probability is = 4C1*9C1*5C1*3C1 ÷ 21C4 = 12/133 = 0.090

15. Answer: B)

In Bag one total ball is = 19+x

In bag 2 Total ball is = 19+2x

Probability (2 Red ball from Bag 1) = 3C2 ÷ (19+x)C2 = 3/276 ------ X=5

Now

Probability (2 Red ball from Bag 2) = 7C2 ÷ 29C2 = 3/58

16-20

Village	TOTAL VOTES	TOTAL VALID VOTES	MALE (VALID)	FEMALE (Valid)	M:F (INVAILED)
A	4000	3000	1200	1800	1:1
B	4000	2400	1200	1200	2:3
C	4000	2000	1300	700	7:3
D	4000	2800	1680	1120	3:1
E	4000	3200	2560	640	3:5

Total invalid vote	Male (invalid) vote	Female (invalid) Vote
1000	500	500

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1600	640	960
2000	1400	600
1200	900	300
800	300	500

16. Answer: D)

Total **valid vote**(A+B) male = 1200+1200=2400

Total **valid vote**(C+D) female= 700+1120=1820

%es more/less = (2400 – 1820) ÷ 1820 = 29/91%

17. Answer: A)

Total invalid vote from A and C = 1000+2000 = 3000

%es = 3000/20000 *100 = 15%

18. Answer: B) Ratio (M:F) from A invalid = 1:1

Ratio (M:F) from B invalid = 2:3

Now (1x+2y) / 1x+3y = 5:7 ------ 2x=y

Total invalid vote (Total- vailed) = 6y = 6600 – y=1100

X=550

Total vote in B (vailed + Invalid) = 2400+ (5*1100) = 7900

Total vote in A (vailed + Invalid) = 3000+ (2*550) = 4100

Difference is = 7900-4100=3800

19. Answer: C)

Average Vailed Vote (first 3 village) = (3000+2400+2000)/3 = 7400/3

Average Invalid Vote (All village) = 6600/5 = 1320

And Difference is = 7400/3 -   1320 = 3440/3 =1147 Approx.

20. Answer: E)

Can't be determined (insufficient information)

21-25

Class	Total	Male	Female	Pass (male - female)	Failed (male - female
2	1140	340	800	200=700	140-100
3	680	420	260	270-60	150-200
4	700	400	300	350-200	50-100
5	420	320	100	200-40	120-60
6	850	500	350	300-200	200-150
7	390	220	170	160-80	60-90

21. Answer: C)

Total students from class 3 & 4 together = 680+700=1380

Total student is class 7th = 390

Ratio is = **1380:390= 138:39**

22. Answer: C)

Female from (**2nd and 3rd**)= 800+260=1060

Male from (**2nd and 3rd**) = 340+420 = 760

Now %es = 1060/760 * 100 = 53/38%

23. Answer: A

Average no of boys = 2200/6

Average no of Girls = 1980/6

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Now, Difference between Avg. Boys and girls is = 2200/6 – 1980/6 = 110/3

24. Answer: B

Total Boys = 2200   Total girls = **1980**

Now the ratio = 2200:1980 = 10:9

25. Answer: D)

Total number of students in 2nd, 4th and 6th is = 1140+700+850 = 2690

Total number of students from all Class= 4180

Now %es is = 2690/4180 * 100 = 64.35%

26-30

26. Answer: B)

On Monday

Downstream : Upstream = 5:4 .

Speed of boat = downstream + upstream speed /2

4+5/2 = 4.5 unit = 45   1 unit = 10

Downstream speed is = 5*10=50 and Upstream speed = 4*10 = 40

240/d +300/u =y

 240/50+300/40=12.3

27. Answer: C)

On Tuesday

Down-stream speed = 70 & upstream speed = 30

On Wednesday

down-stream speed = 30 & upstream speed = 20

Average Down speed = 70+30/2 = 50 & Average upstream speed = 30+20/2 = 25

Now, %more or less = 50-25 / 25 *100 = 100%

28. Answer: E)

On Thursday - 250/D = 250/60 = 25/6

On Friday – 250+150/U = 400/10 = 40

Now, total time = 25/6+40 = 265/6

29. Answer: B)

On Friday

x/40 +x/10 = 10

x= 80

while on Tuesday, Total distance is same as Friday=2X=160

distance covered Down : UP = 5:3 = 100&60km.

Now, time taken is = 100/70 + 60/30 = 24/7 hr.

30. Answer: A)

Distance covered Downstream on Friday = 4/3 * Distance covered Downstream on Wednesday

Let, (distance covered on Friday =4x and on Wednesday 3x)

Given,

4x/40 + 3x/30 = 14

X=70 = difference between distance covered (4x-3x)

31-35

State	Buying price	Selling price	Discount %
UP	200	180	20
MP	220	250	50

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Delhi	400	360	40
Maharashtra	500	660	30
Goa	700	840	50

31. Answer (c)

MP of corona kit in UP = 180/80 * 100 = 225

MP of corona kit in Delhi = 360/60 * 100 = 600

MP of corona kit in Goa – 840/50 * 100 = 1680

Now, Avg, mark price in Delhi & goa = (600+1680) ÷2 = 1140

%es more/less = [(1140-225)/ 225] * 100= 406.667 %

32. Answer: A)

Combined Loss = 20+40=60

Combined Profit = 30+160+140=330

Ratio = 60:330 = 2:11

33. Answer: A)

In Maharashtra – Mark price(old) = 660/70 * 100 = 943

Now, As per question

New Selling price(new profit % is 75%) = 500* 175/100 = 875 New Mark Price (discount %es is same)= 875/70 *100 = 1250

%es Increase in Mark Price = [(1250-943) / 943] * 100 = 32.55%

34. Answer: D)

Mark price of Gujarat = Avg. Mark price of Goa and MP

= (840/50*100 + 360/60*100)÷2 = 1140

Selling price of Gujarat = 1140 * 90/100 *85/100 = 872.1

Cost Price in Gujarat = 872.1 – 13.5 = 858.6

Now, Cost price of 2000 kit = 2000*858.6 = 1717200

35. Answer: E)

Combined cost price for all = 200+220+400+500+700 = 2020

Combined Selling price for all = 2290

Combine profit = 2290-2020 = 270

And profit % = (270/2020) *100 = 13.36%

36. Answer: D

LCM of 30, 24, and 10 = 360

Hence A= 360/30 = 12, F = 360/24 = 15, D = 360/10 = 36

Work done by A = 12x, F = 15y, D = 36 * 3 = 108

12x + 15y + 108 = 360

x/y = 1/2

y = 2x

12x + 15 * 2x + 108 = 360

42x = 252

x = 6

y = 2 * 6 = 12 days

37. Answer: B

LCM of 30, 12, 18 = 360

Hence A = 360/30 = 12, B = 360/12 = 30 and C = 360/18 = 20

75% of C's efficiency = 15

A worked 25% more efficiently = 15

B = 30

A, C and B = 15: 15: 30= 1: 1: 2

Total wage = 6000

A's wages = 1/4 * 6000 = Rs.1500

38. Answer: A

F works with $66\frac{2}{3}$% more efficiently = 14.4

A works with 3/4 of his efficiency = 40

D works with 1/2 of his efficiency = 20

LCM of 14.4, 40, 20 = 288

Work done by A and D and F for 3 days = 7.2 + 14.4 + 20 = 41.6

After 18 days = 41.6 * 6 = 249.6

Remaining work = 288 – 249.6 = 38.4

After 2 days F and A complete = 20 + 7.2 = 27.2

Remaining work = 38.4 – 27.2 = 11.2

D complete remaining work = 11.2/14.4 days

Total time = 20(7/9) days

39. Answer: A

LCM of 15, 18, 30 = 360

Hence E = 360/15 = 24, C= 360/18 = 20, A = 360/30 = 12,

Work done by E = 24x

Work done by A and C in (x + 2.5) days = (A + C) = 20 + 12 = 32

A and C together can complete 66(2/3)% of the work.

24x/(32 * (x + 2.5)) = (100/3)/(200/3)

48x = 32x + 32 * 2.5

16x = 32 * 2.5

x = 5 days

40. Answer: A)

Efficiency of A on Thursday = 120*125/100 = 150

. Efficiency of E on Thursday= 82.8/82.8*100 =100

Total work on Thursday= 1800*7/6=2100

Now, time taken by A&E to complete the work in = 2100/250= 8.4Days

41-45

Subject	6marks	3marks	2marks	1marks	0.5marks
Quants	5	5	10	20	30
Reasoning	10	5	10	5	20
English	5	10	10	10	20
GA	5	5	10	15	40

Maximum marks in all subject is - 100.

41. Answer: B)

Total question 70

6 marks question = 5 out of which 2 wrong – marks = 3*6 – (6*2)*1/4 = 15marks

3marks question = 3*5=15 marks

2marks question = 2*10=20 marks

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1 marks Question = 1*20=20 marks

0.5 marks question (12 wrong) = (0.5*18) – (12*0.5*1/4) =7.5

Total marks scored is = 77.5

And %es is 77.5/100 *100 = 77.5%

42. Answer D)

Insufficient information to find answer

43. Answer: A)

Total 6&3 marks question from all subject = 25+25=50

Total 1&2 marks question from all subject = 50+40=90

44. Answer: A)

Total attempt is = 30

10 question of 1 marks, 16 question of 0.5 marks , and rest 4 question in 3:1 (3question of 6 marks and 1 question of 3 marks)

Total score is = 10+8+18+3=39

More marks than passing = 39-30 = 9 Marks

45. Answer: C)

Minimum passing marks is =33

Minimum no of question that a person has to do is 5 question of 6 marks question and 1quesion of 3 marks

Minimum no of question = 6

46-50

State	Total person	Total Infected	Total Uninfected	Infected male	Infected Female
Maha.	50000	11000	39000	7000	4000
Guj.	40000	5600	34400	3200	2400
Delhi	15000	2400	12600	900	1500
MP	30000	3000	27000	1000	2000
Bihar	20000	3200	16800	1600	1600

46. Answer: B)

Infected Female from Delhi and MP = 2000+1500=3500

Infected Male from Gujarat and Bihar = 3200+1600=4800

%es = (3500/4800) *100= 72.916 %

47. Answer: C)

In Maharashtra

Total male is = 31000 out of which infected male is 7000 and remaining are uninfected 24000.

Total Female = 19000 out of which infected female 4000 and Remaining are Uninfected = 15000

%es = (15000/50000) * 100 = 30%

48. Answer: C)

Average number of females infected = 2200/5 =440

49. Answer: A)

Average number of infected male and female from MP and Bihar = 6200/2= 3100

Average number of male from all the state together = 13700/5 = 2740

%es more = [(3100-2740) /2740] * 100 = 13.13 %

50. Answer: C)

Total number of Uninfected people from all the state together = 155000-25200=129800

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