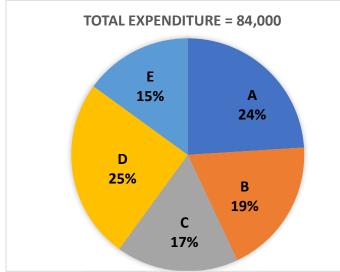
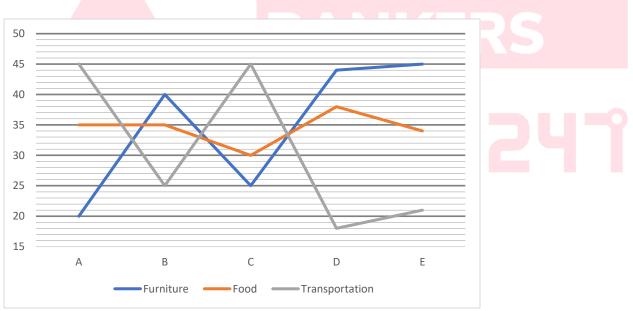
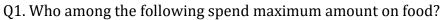
Quiz Date: 7<sup>th</sup> March 2020

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**Directions (1-5)**: Pie-chart given below shows the expenditure of five different persons and line graph shows the percentage distribution of their expenditure on different things. Study the question carefully and answer them.







- (a) D
- (b) E
- (c) B
- (d) C
- (e) A

Q2. Amount spend by 'E' on furniture is what % more than amount spend by 'D' on Transportation?

(a) 40%

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- (b) 45%
- (c) 50%
- (d) 55%
- (e) 60%

Q3. Find the average amount spend by A, B and C on furniture?

- (a) 4622
- (b) 4626
- (c) 4262
- (d) 4266
- (e) 4662

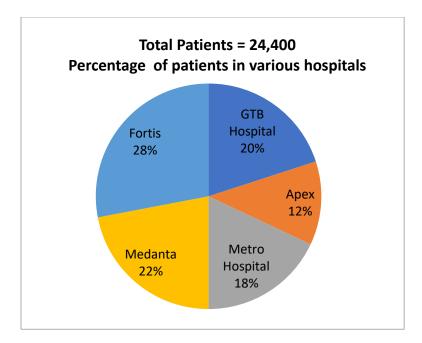
Q4. 'D' buy only three type of furniture X, Y and Z and amount spend on buying X, Y and Z are in the ratio 5 : 7 : 10 respectively. What is the difference between amount spend on buying Z type furniture to amount spend on buying X type furniture?

- (a) 840
- (b) 1260
- (c) 1680
- (d) 2100
- (e) 2520



Q5. What is the ratio of amount spend by 'A' and 'B' together on food to the amount spend by 'C' and 'D' together on furniture respectively? (a) 295 : 277 (b) 277 : 295 (c) 305 : 301 (d) 301 : 305 (e) 329 : 205

**Directions (6-10):** The following pie-chart shows the percentage of patients in various hospitals of Delhi and also the table shows the ratio of male to female patients in these hospitals. Study the graphs carefully to answer the related questions.



Hospitals	Male: Female	
GTB Ho <mark>spital</mark>	4:1	BANKERS
Apex	3:1	
Met <mark>ro Hosp</mark> ital	5:4	
Medanta 🛛	5:3	
Fortis	4:3	

Q<mark>6. What is t</mark>he ave<mark>rage numb</mark>er of male patients in GTB, Metro and Forti<mark>s hosp</mark>itals <mark>to</mark>gether? (a) 4,254

- (b) 2,088
- (c) 2,088
- (d) 3,120
- (e) 3,416

Q7. Number of female patients in Apex and Medanta together are approximately what percent of number of female patients in Metro and Fortis together?

- (a) 85%
- (b) 65%
- (c) 56%
- (d) 95%
- (e) 80%

Q8. Number of female patients in Medanta are approximately what percent of the number of male patients in GTB Hospital?

(a) 75%

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(d) 28%

(e) 80%

Q9. What is the difference between total number of male patients in Apex and Medanta together and total number of female patients in Metro and Fortis hospitals together?

- (a) 671
- (b) 204
- (c) 300
- (d) 2880
- (e) 415

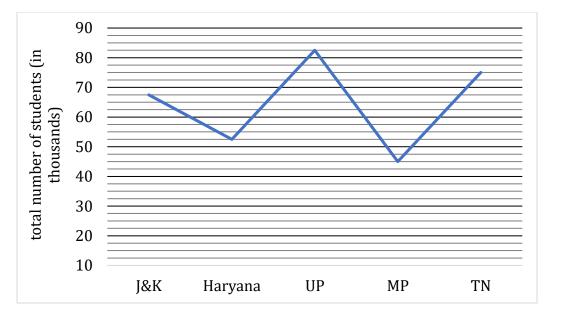
Q10. If 10% patients get discharged from GTB Hospital and the ratio of male to female patients discharged is 3 :1, then what is the ratio of male to female patients who are still in the GTB Hospital?

(a) 1375 : 553

- (b) 29 : 7
- (c) 57 : 77
- (d) 81 : 53
- (e) None of these



**Directions(11-15):** The following line graph and table show the total number of students who appeared for UPSC Pre exam in 2018 from five different states and ratio of Boys to girls in them from five different states of India. Study the graph carefully to answer the following questions.



States	Ratio of boys to girls	
	Boys : Girls	
J&K	5:4	
HARYANA	11:4	
UP	3:2	
MP	5:1	
TN	17:8	

Note : Ratio of Boys to girls remain same for Pre exam and Mains exam both.

- Q11. If 20% students from J&K have qualified for Mains exam, then total no. of boys in J&K who have qualified for Mains exam is approximately what percent of total no. of students from J&K who did not qualify for Mains exam?
- (a) 18%
- (b) 14%
- (c) 12%
- (d) 6%
- (e) 10%
- Q12. What is the difference between boys and girls from TN who have appeared for the exam (in thousands)?
- (a) 27
- (b) 22
- (c) 35
- (d) 32
- (e) 18

- Q13. If three fifth of total students of Haryana are qualified for Mains exam, then what is the ratio of boys who are qualified from Haryana to the total students who were not qualified from Haryana?
- (a) 12 : 13
- (b) 13 : 12
- (c) 10 : 11
- (d) 11 : 10
- (e) 9 : 11
- Q14. What is the difference between average of boys and average of girls who are qualified from all the five states?
- (a) 20,200
- (b) 21,100
- (c) 20,110
- (d) Cannot be determined
- (e) None of these
- Q15. If 10%, 20% and 25% students leave the Pre exam due to some internal reasons in states J&K, MP and TN respectively then what is the ratio of total students who have given the Pre exam from these states respectively?
- (a) 51 : 40 : 45
- (b) 40 : 45 : 51
- (c) 27 : 16 : 25
- (d) 16 : 27 : 18

(e) 27 : 25 : 16

Solutions

S1. Ans.(a) Sol.

Amount spend by 'A' on food =  $84000 \times \frac{24}{100} \times \frac{35}{100} = 7056$ Amount spend by 'B' on food =  $84000 \times \frac{19}{100} \times \frac{35}{100} = 5586$ Amount spend by 'C' on food =  $84000 \times \frac{17}{100} \times \frac{30}{100} = 4284$ Amount spend by 'D' on food =  $84000 \times \frac{25}{100} \times \frac{38}{100} = 7980$ Amount spend by 'E' on food =  $84000 \times \frac{15}{100} \times \frac{34}{100} = 4284$ 

S2. Ans.(c) Sol. Amount spend by 'E' on furniture =  $84000 \times \frac{15}{100} \times \frac{45}{100}$ = 5670 Amount spend by 'D' on transportation =  $84000 \times \frac{25}{100} \times \frac{18}{100}$ = 3780 Required  $\% = \frac{5670 - 3780}{3780} \times 100$ = 50% S3. Ans.(e) Sol. Required average =  $\frac{1}{3} \times 84,000 \left[ \frac{24}{100} \times \frac{20}{100} + \frac{19}{100} \times \frac{40}{100} + \frac{17}{100} \times \frac{25}{100} \right]$  $=\frac{28000}{10000}$ [480 + 760 + 425] = 2.8 (1665) = 4662S4. Ans.(d) Sol. Required volume =  $84000 \times \frac{25}{100} \times \frac{(10-5)}{22} \times \frac{44}{100}$ = 2100 S5 Ans.(d) Sol. Amount spend by A & B on food =  $84000 \times \left[\frac{24}{100} \times \frac{35}{100} + \frac{19}{100} \times \frac{35}{100}\right]$ Sol. = 8.4 [ 840 + 665] = 12642 Amount spend by C & D on furniture =  $84000 \left[ \frac{17}{100} \times \frac{25}{100} + \frac{25}{100} \times \frac{44}{100} \right]$ = 8.4 [1525] = 12810 Required ratio  $=\frac{12642}{12810}=\frac{301}{305}$ 



S6. Ans.(e) Sol. Bankersadda.com

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Required average no. of male patients
=\frac{1}{3} \times \left(\frac{4}{5} \times 20 + \frac{5}{9} \times 18 + \frac{4}{7} \times 28\right) \times 244
= 3,416
S7. Ans.(c)
Sol.
No. of female patients in Apex and Medanta together
= \left(\frac{1}{4} \times 12 + \frac{3}{8} \times 22\right) \times 244
= 732 + 2013
= 2745
No. of female patients in Metro and Fortis hospitals together
=\left(\frac{4}{9}\times18+\frac{3}{7}\times28\right)\times244
= 4880
∴ Required percentage = \frac{2745}{4880} \times 100 \simeq 56\%
S8. Ans.(c)
Sol.
Required percentage
=\frac{\frac{3}{8}\times22}{\frac{4}{5}\times20}\times100
                                                                  1da 2
= 51.5625
\simeq 52\%
S9. Ans.(a)
Sol.
No. of male patients in Apex and Medanta hospitals together
= \left(\frac{3}{4} \times 12 + \frac{5}{8} \times 22\right) \times 244
= 5551
No. of female patients in Metro and Fortis hospitals together
= \left(\frac{4}{9} \times 18 + \frac{3}{7} \times 28\right) \times 244
= 4880
\therefore Required difference = 5551 – 4880 = 671
S10. Ans.(b)
Sol.
No. of patients who get discharged from GTB Hospital
=\frac{10}{100}\times\frac{20}{100}\times24400
= 488
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No. of male patients who do not discharged from GTB Hospital  $=\frac{4}{5} \times 20 \times 244 - \frac{3}{4} \times 488$ = 3,538No. of female patients who do not discharged from GTB Hospital  $=\frac{1}{5} \times 20 \times 244 - \frac{1}{4} \times 488$ = 854 $\therefore \text{ Required ratio} = \frac{3538}{854} = \frac{29}{7}$ S11. Ans.(b) Sol. No. of boys who have qualified for Mains exam from J&K  $=\frac{20}{100}\times\frac{5}{9}\times67,500$ = 7500 No. of students from J&K who did not qualify for Mains exam  $=\frac{80}{100}\times 67,500$ = 54,000 ∴ Required percentage  $=\frac{7500}{54000}\times100$  $\simeq 14\%$ S12. Ans.(a) Sol. Required difference =  $\frac{9}{25} \times 75 = 27$  thousands S13. Ans.(d) Sol. Total boys qualified for Mains exam from Haryana  $=\frac{11}{15} \times \frac{3}{5} \times 52,500$ = 23,100Total students who were not qualified for Mains exam from Haryana  $=\frac{2}{5} \times 52,500$ = 21000  $\therefore \text{ Required ratio} = \frac{23100}{21000}$ = 11 : 10S14. Ans.(d) Sol.

Here, answer cannot be determined because we don't know how many students qualified for Mains exam.

S15. Ans.(c) Sol. Required ratio = 0.9 × 67.5 : 0.8 × 45 : 0.75 × 75 = 27 : 16 : 25



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