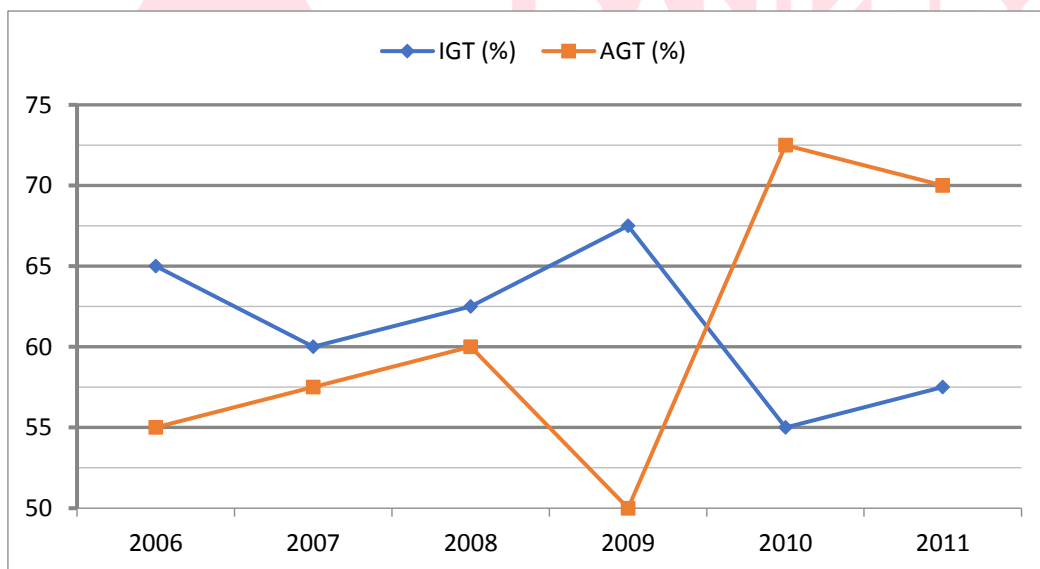


Quiz Date: 3<sup>rd</sup> April 2020

**Directions (1-5):** Study the data given below carefully and answer following questions based on these data.

Given below is the table which shows number of persons participated (in thousand) in audition of India Got Talent (IGT) and America Got Talent (AGT) from year 2006 to year 2011. There is also a line graph which shows percentage of selected participants in IGT and AGT.

Year	No. of participants (in thousand)	
	IGT	AGT
2006	85	90
2007	90	100
2008	95	105
2009	110	85
2010	80	85
2011	90	95



Q1. Number of selected participants in IGT in 2008 is what percent more or less than the not selected participants in AGT in 2007.

- (a) 41%
- (b) 39.70%
- (c) 36.5%
- (d) 42.5%
- (e) 35.80%

Q2. Maximum growth of selected participants in IGT is recorded in which year ?

- (a) 2007
- (b) 2008
- (c) 2009
- (d) 2010
- (e) 2011

Q3. Ratio between the total non- selected participants in 2010 in both shows together and selected participants of IGT in 2006 is:

- (a) 353 : 442
- (b) 451 : 342
- (c) 442 : 453
- (d) 229 : 189
- (e) 475 : 442

Q4. Find the average number of participants selected in AGT in all year. (Consider nearest integer).

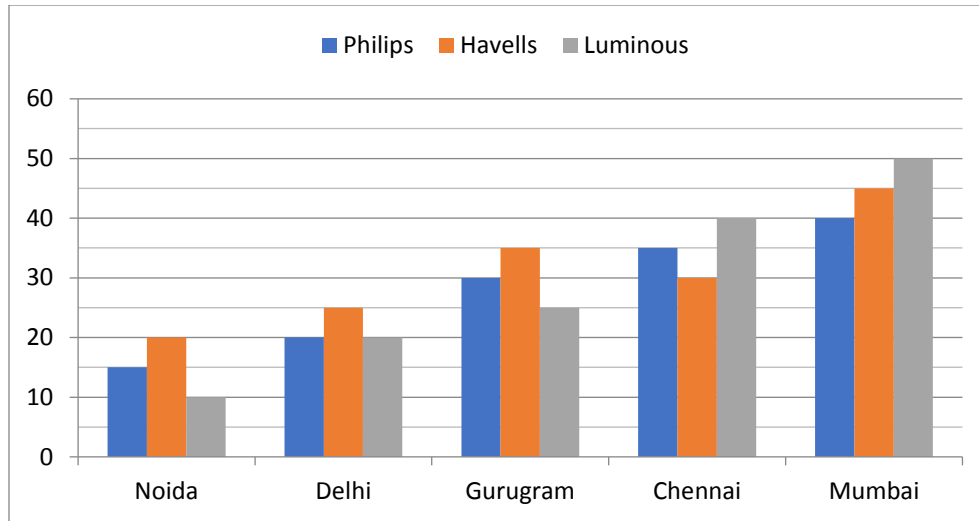
- (a) 55938
- (b) 54620
- (c) 56771
- (d) 52940
- (e) 58478



Q5. Find the difference between sum of selected participants of AGT in 2008, 2009, 2010 and sum of selected participants of IGT in 2007, 2009, 2011.

- (a) 11350
- (b) 12455
- (c) 13775
- (d) 12875
- (e) 14780

**Directions (6-10):** Study the following graph carefully to answer the questions that follows: Number of employees (in thousand) who are working in three different organization at its five different branches.



Q6. Find the average of total no. of employees working in Havells at all the five branches together.

- (a) 26000
- (b) 31000
- (c) 35000
- (d) 22000
- (e) 32000

Q7. What is the difference between total no. of employees working in Philips and that of Luminous in all the branches together?

- (a) 8000
- (b) 10000
- (c) 5000
- (d) 4000
- (e) 4500

Q8. The no. of employees working in Philips at Gurugram branch is what percent more or less than the no. of employees working in Havells in same branch?

- (a)  $14\frac{2}{7}\%$  less
- (b)  $14\frac{2}{7}\%$  more
- (c) 14 % less
- (d) 14% more
- (e) None of these

Q9. Find the ratio of total no. of employees working in Philips at Delhi and Chennai branches together to the total no. of employees working in Luminous at Noida and Gurugram branches together.

- (a) 13 : 6
- (b) 4 : 9
- (c) 7 : 11

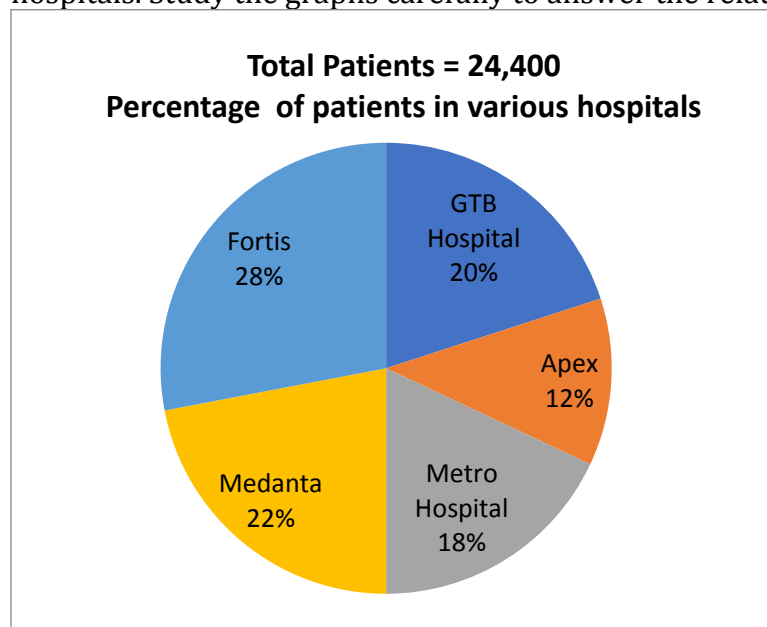
(d) 11 : 7

(e) 9 : 11

Q10. At which branch Havells has maximum no. of employees?

- (a) Mumbai
- (b) Chennai
- (c) Delhi
- (d) Gurugram
- (e) Noida

**Directions (11-15):** The following pie-chart shows the percentage of patients in various hospitals of Delhi and also the table shows the ratio of male and female patients in these hospitals. Study the graphs carefully to answer the related questions.



Hospitals	Ratio of male and female patients	
	male	female
GTB Hospital	4	1
Apex	3	2
Metro Hospital	5	4
Medanta	5	3
Fortis	4	3

Q11. What is the average number of male patients in GTB, Metro and Fortis hospitals together?

- (a) 4,254
- (b) 2,088
- (c) 2,048

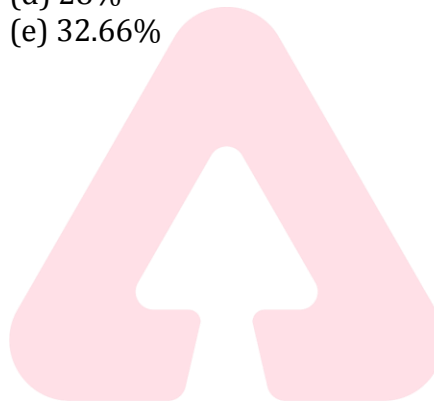
- (d) 3,120
- (e) 3,416

Q12. 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) 102%
- (d) 95%
- (e) 80%

Q13. Number of female patients in Medanta are approximately what percent of the number of male patients in GTB Hospital?

- (a)  $75\frac{2}{3}\%$
- (b)  $33\frac{1}{3}\%$
- (c) 52%
- (d) 28%
- (e) 32.66%



Q14. What is the approximate 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) 232
- (b) 204
- (c) 300
- (d) 2880
- (e) 415

Q15. If 10% patients get discharged from GTB Hospital in the ratio of male to female patients as 3 : 1, 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

## Solutions

S1. Ans.(b)

Sol.

$$\text{Number of selected participants in IGT in 2008} = 95000 \times \frac{62.5}{100} = 59375$$

$$\text{Non-selected participants in AGT in 2007} = 100000 \times \frac{42.5}{100} = 42500$$

$$\text{Required percentage} = \frac{59375 - 42500}{42500} \times 100$$

$$= \frac{16875}{425} \%$$

$$= 39.70\%$$

S2. Ans.(c)

Sol.

Selected participants of IGT in different year,

$$\text{In year, 2006} \Rightarrow 85000 \times \frac{65}{100} = 55250$$

$$2007 \Rightarrow 90000 \times \frac{60}{100} = 54000 \text{ decrease}$$

$$2008 \Rightarrow 95000 \times \frac{62.5}{100} = 59375 \text{ increase}$$

$$2009 \Rightarrow 110000 \times \frac{67.5}{100} = 74250 \text{ increase}$$

$$2010 \Rightarrow 80000 \times \frac{55}{100} = 44000 \text{ decrease}$$

$$2011 \Rightarrow 90000 \times \frac{57.5}{100} = 51750 \text{ increase}$$

Maximum growth is recorded in 2009 i.e.  $74250 - 59375 = 14875$

S3. Ans.(e)

Sol.

$$\text{Total non-selected participants in 2010} = 80000 \times \frac{45}{100} + 85000 \times \frac{27.5}{100} = 59375$$

Selected participants of IGT in 2006 = 55250

Required ratio = 59375: 55250

= 475: 442

S4. Ans.(c)

Sol.

$$\text{Required average} = \frac{1}{6} \left[ 90000 \times \frac{55}{100} + 100000 \times \frac{57.5}{100} + 105000 \times \frac{60}{100} + 85000 \times \frac{50}{100} + \right.$$

$$\left. 85000 \times \frac{72.5}{100} + 95000 \times \frac{70}{100} \right]$$

$$= \frac{1}{6} [3,40,625] = 56,771$$

S5. Ans.(d)

Sol.

$$\text{Sum of selected participants in AGT} = 105000 \times \frac{60}{100} + 85000 \times \frac{50}{100} + 85000 \times \frac{72.5}{100} = 167125$$

$$\text{Sum of selected participants in IGT} = 90000 \times \frac{60}{100} + 110000 \times \frac{67.5}{100} + 90000 \times \frac{57.5}{100} = 180000$$

Required difference =  $180000 - 167125 = 12,875$

S6. Ans.(b)

Sol.

Required average

$$= \frac{1}{5} \times (20 + 25 + 35 + 30 + 45)$$

$$= 31 \text{ thousand}$$

S7. Ans.(c)

Sol.

Required difference

$$|(15 + 20 + 30 + 35 + 40) - (10 + 20 + 25 + 40 + 50)|$$

$$= 5000$$

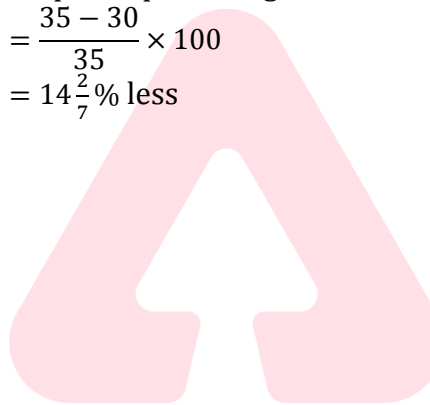
S8. Ans.(a)

Sol.

Required percentage

$$= \frac{35 - 30}{35} \times 100$$

$$= 14\frac{2}{7}\% \text{ less}$$



S9. Ans.(d)

Sol.

Required ratio

$$= \frac{(20 + 35)}{(10 + 25)} = \frac{11}{7}$$

S10. Ans.(a)

Sol.

From the graph it is clear that Havells has maximum no. of employees at its Mumbai branch.

S11. Ans.(e)

Sol.

Required average no. of male patients

$$= \frac{1}{3} \times \left( \frac{4}{5} \times 20 + \frac{5}{9} \times 18 + \frac{4}{7} \times 28 \right) \times 244$$

$$= 3,416$$

S12. Ans.(b)

Sol.

No. of female patients in Apex and Medanta together

$$= \left( \frac{2}{5} \times 12 + \frac{3}{8} \times 22 \right) \times 244$$

$$= 1171.2 + 2013$$

$$\approx 3184$$

No. of female patients in Metro and Fortis hospitals together

$$= \left( \frac{4}{9} \times 18 + \frac{3}{7} \times 28 \right) \times 244$$

$$= 4880$$

$$\therefore \text{Required percentage} = \frac{3184}{4880} \times 100 \approx 65\%$$

S13. Ans.(c)

Sol.

Required percentage

$$= \frac{\frac{3}{8} \times 22}{\frac{4}{5} \times 20} \times 100$$

$$= 51.5625$$

$$\approx 52\%$$

S14. Ans.(a)

Sol.

No. of male patients in Apex and Medanta hospitals together

$$= \left( \frac{3}{5} \times 12 + \frac{5}{8} \times 22 \right) \times 244$$

$$= 20.95 \times 244$$

$$= 5,111.8$$

$$\approx 5112$$

No. of female patients in Metro and Fortis hospitals together

$$= \left( \frac{4}{9} \times 18 + \frac{3}{7} \times 28 \right) \times 244$$

$$= 4880$$

$$\therefore \text{Required difference} = 5112 - 4880 = 232$$

S15. Ans.(b)

Sol.

No. of patients who get discharged from GTB Hospital

$$= \frac{10}{100} \times \frac{20}{100} \times 24400$$

$$= 488$$

No. of male patients who do not discharged from GTB Hospital

$$= \frac{4}{5} \times 20 \times 244 - \frac{3}{4} \times 488$$



$$= 3,538$$

No. of female patients who do not discharged from GTB Hospital

$$= \frac{1}{5} \times 20 \times 244 - \frac{1}{4} \times 488$$

$$= 854$$

$$\therefore \text{Required ratio} = \frac{3538}{854} = \frac{29}{7}$$

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