Quiz Date: 26th August 2020

Direction (1-5): Study the following information carefully and answer the following questions.

On a particular day total number of people went to watch a movie in Fun cinema is $66\frac{2}{3}$% of the total capacity of the Fun cinema. There are total four halls (i.e. 1, 2, 3 and 4) available there and each has an equal capacity of 300. 22% of the total number of people have watched movie in hall 1 and 25% of the remaining in hall 4. Number of people who have watched movie in hall 2 are 34 % more than of hall 3. Ratio of number of male and female who have watched movie on that particular day is 7:9.

Q1.If in hall 1the ratio of the number of male to that of female was 5:3 and in hall 4 the ratio (female : male) was 8 : 5. Then find the total number of female who have watched movie in these two halls are what percent of the total number of female who have watched movie on that particular day?
(a) 30%
(b) 36%
(c) 32%
(d) 25%
(e) 40%

Q2. Find difference between the total number of males who have watched movie on that day and the number of people who have watched movie in hall 2 and hall 4 together?
(a) 58
(b) 64
(c) 68
(d) 74
(e) 80

Q3. Find the ratio of average of the number of people who have watched movie in hall 1 and hall 3 to the average of the people who have watched movie in hall 2 and hall 4.
(a) 47:53
(b) 43:55
(c) 42:53
(d) 49:58
(e) 45:53

Q4. The number of people who have watched movie in hall 3 is what percent of the total capacities of Fun cinema?
(a) 10%
(b) $12\frac{1}{2}$%
(c) 15%
(d) $16\frac{2}{3}$%
(e) 20%

Q5. The cost of a ticket is Rs 250 but on that day there was a discount of 18% for female and 12% for male people. Then find the total income earned by Fun cinema on that day?
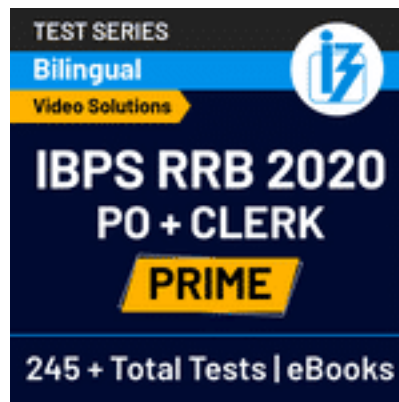(a) Rs 1,69,250
(b) Rs 1,66,250
(c) Rs 1,70,550
(d) Rs 1,68,450
(e) Rs 1,67,550

Directions (6-10): The following table shows the total number of persons who qualified UGC-NET in six different years and the ratio of male and female in them. Study the table carefully and answer the following questions.

Year	Total qualified candidate	Ratio of male to female
2006	21,500	4 : 1
2007	24,500	7 : 3
2008	27,300	7 : 5
2009	30,200	13 : 7
2010	32,400	11 : 5
2011	35,200	6 : 5

Q6. What is the total number of female candidates who qualified the UGC-NET exam in years 2006, 2008 and 2010 together ?
(a) 24,900
(b) 26,500
(c) 25,800
(d) 23,800
(e) None of these

Q7. The number of male candidates who qualified in year 2007 are approximately what percent of total number of candidates who qualified the exam in year 2006 ?
(a) 88%
(b) 80%
(c) 72%
(d) 70%

(e) 91%

Q8. What is the average number of male candidates who qualified the exam in years 2006, 2007 and 2010 together?
(a) 17,875
(b) 20,450
(c) 18,980
(d) 18,875
(e) None of these

Q9. What is the difference between the number of male candidates who qualified in the year 2009 and number of female candidates who qualified in the year 2011?
(a) 3,630
(b) 3,450
(c) 3,600
(d) 3,360
(e) None of these

Q10. The number of male candidates who qualified the exam in 2008 are approximately what percent more or less than number of male candidates who qualified the exam in the year 2011?
(a) 17% more
(b) 17% less
(c) 20% less
(d) 20% more
(e) 21% less

Directions (11-15): Table given below shows profit of two sellers in five different months. Study the table carefully and answer the following questions.

Month / Seller	Jan	Feb	Mar	Apr	May
Satish	3600	4800	5500	4600	6500
Veer	4400	2700	2400	5400	6000

Q11. Total profit by Satish and Veer in April is what percent more than total profit by Satish and Veer in January?
(a) 27.5%
(b) 35%
(c) 30%
(d) 20%
(e) 25%

Q12. Satish spend his profit of May on household item, savings and medicines in the ratio 7 : 4 : 2. Find the amount Satish spend on household and Medicines together.
(a) 2000

(b) 4500
(c) 3000
(d) 3500
(e) 5500

Q13. Satish's average profit in Feb and March is how much more than Veer's average profit in Feb and March?
(a) 2600
(b) 2800
(c) 3000
(d) 2400
(e) 2200

Q14. Find the ratio of Satish's profit in March and May together to Veer's profit in Same months ?
(a)7/10
(b)9/7
(c) 10/7
(d)7/9
(e)None of these

Q15. Satish's profit in Jan and Feb together is how much percent more than Veer's profit in April?
(a) $46\frac{5}{9}\%$
(b) $51\frac{5}{9}\%$
(c) $55\frac{5}{9}\%$
(d) $60\frac{5}{9}\%$
(e) $65\frac{5}{9}\%$

Solutions

Solution (1-5):
Total capacity of Fun cinema= 300×4= 1200
Number of People on that day= $1200 \times \frac{2}{3} = 800$
Number of male on that day= $800 \times \frac{7}{16} = 350$
And number of female= 450
In hall 1= $800 \times \frac{22}{100} = 176$
In hall 4= $(800-176) \times \frac{25}{100} = 156$
Let number of people who have watched movie in hall 3 be 100x then number of people in hall 2 be 134x.

ATQ,

100x + 134x=(800-176-156)=468

x= 2

so, in hall 3=200 and in hall 2= 268

S1. Ans.(b)

Sol.

Required percent=$\frac{176\times\frac{3}{8}+156\times\frac{8}{13}}{450}\times 100 = 36\%$

S2. Ans.(d)

Sol.

Required difference= (268+156)-350=74

S3. Ans.(a)

Sol.

Required ratio=$\frac{\frac{1}{2}(176+200)}{\frac{1}{2}(268+156)}$ =47:53

S4. Ans.(d)

Sol.

Required percent=$\frac{200}{1200}\times 100 = 16\frac{2}{3}\%$

S5. Ans.(a)

Sol.

On that day,

Cost of ticket for female=$250\times\frac{82}{100} = Rs\ 205$

Cost of ticket for male=$250\times\frac{88}{100} = Rs\ 220$

Total income earned by Fun cinema on that day= Rs $(450\times 205 + 350 \times 220)$= Rs 1,69,250

S6. Ans.(c)

Sol.

Required no. of females

$= \left(\frac{1}{5}\times 21,500 + \frac{5}{12}\times 27,300 + \frac{5}{16}\times 32,400\right)$

$= 25,800$

S7. Ans.(b)

Sol.

Required percentage

$$= \dfrac{\dfrac{7}{10} \times 24{,}500}{21{,}500} \times 100$$

$$\simeq 80\%$$

S8. Ans.(d)
Sol.
Required average no.

$$= \dfrac{1}{3} \times \left(\dfrac{4}{5} \times 21{,}500 + \dfrac{7}{10} \times 24{,}500 + \dfrac{11}{16} \times 32{,}400\right)$$

$$= \dfrac{1}{3} \times (17{,}200 + 17{,}150 + 22{,}275)$$

$$= \dfrac{1}{3} \times 56{,}625$$

$$= 18{,}875$$

S9. Ans.(a)
Sol.
Required difference

$$= \left|\dfrac{13}{20} \times 30{,}200 - \dfrac{5}{11} \times 35{,}200\right|$$

$$= |19{,}630 - 16{,}000|$$

$$= 3{,}630$$

S10. Ans.(b)
Sol.
No. of male candidates who qualified the exam in year 2008

$$= \dfrac{7}{12} \times 27{,}300$$

$$= 15{,}925$$

No. of male candidates who qualified the exam in 2011

$$= \dfrac{6}{11} \times 35{,}200$$

$$= 19{,}200$$

∴ Required percentage

$$= \dfrac{19{,}200 - 15{,}925}{19{,}200} \times 100 \simeq 17\% \text{ less}$$

S11. Ans.(e)

Sol.

Required percentage

$$= \frac{(4600 + 5400) - (3600 + 4400)}{3600 + 4400} \times 100$$

$$= \frac{10000 - 8000}{8000} \times 100$$

$$= \frac{2000}{80} \% = 25\%$$

S12. Ans.(b)
Sol.

Amount Satish spend on household

and medicine $= \frac{7+2}{13} \times 6500$

$= 9 \times 500$

$= 4500$

S13. Ans.(a)
Sol.

Satish's average profit in Feb & March

$$= \frac{4800 + 5500}{2} = 5150$$

Veer's average profit in Feb & March

$$= \frac{2700 + 2400}{2} = 2550$$

Required difference = 5150 – 2550 = 2600

S14. Ans.(c)
Sol.

Required Ratio $= \dfrac{5500+6500}{2400+6000}$

$= \dfrac{12000}{8400}$

$= \dfrac{10}{7}$

S15. Ans.(c)
Sol.
Required percentage

$= \dfrac{(3600+\ 4800)-5400}{5400} \times 100$

$= \dfrac{3000}{54}\%$

$= 55\dfrac{5}{9}\%$

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