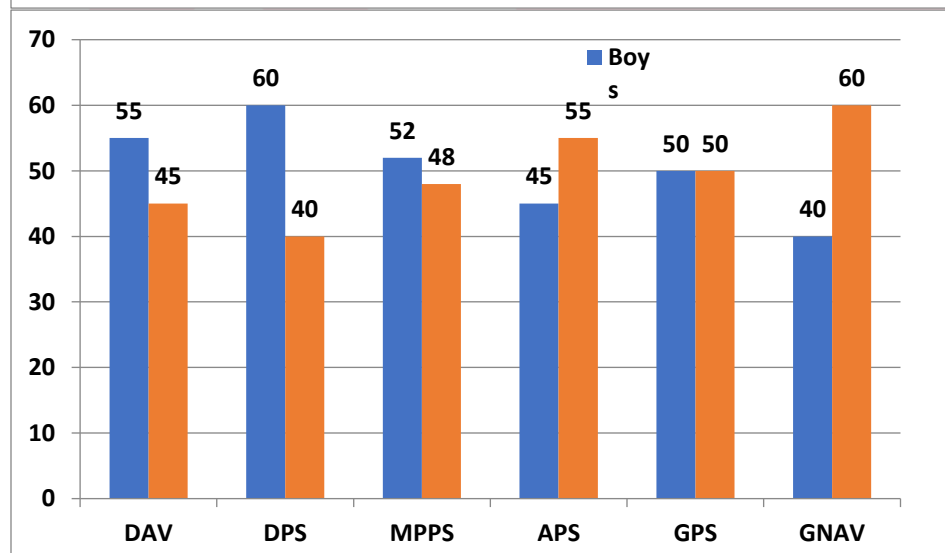
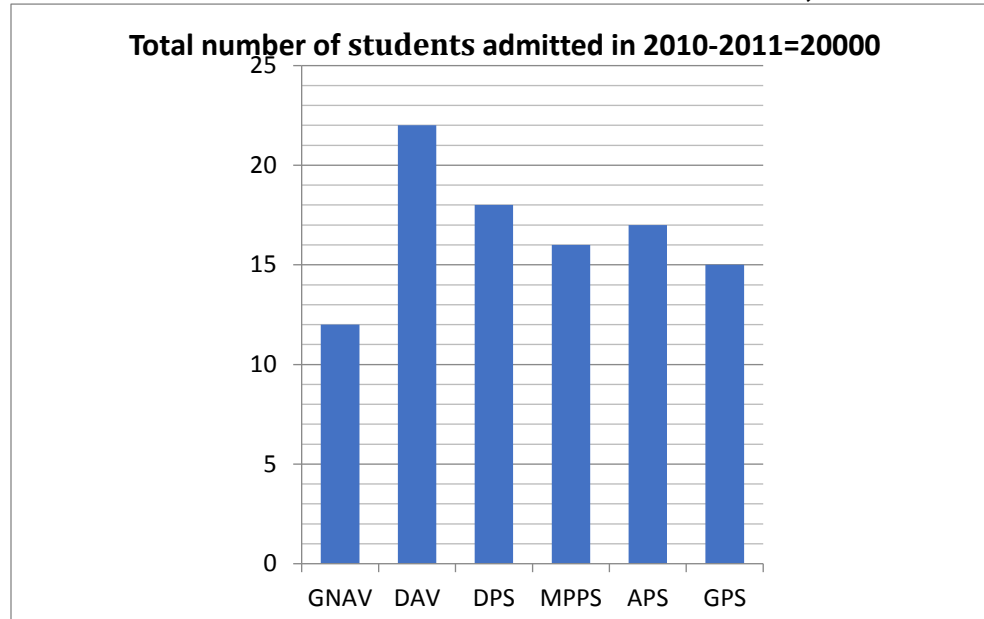


Quiz Date: 3rd October 2020

Directions (1- 5) : Study the following graphs and answer the following questions:

The following graph shows the percentage distribution of students admitted in different schools in 2010 - 2011

Total number of students admitted in 2010-2011 = 20,000



The above graph shows the percentage distribution of boys and girls in different schools. (in per cent)

Q1. What is the total number of girls having taken admission in MPPS?

- (a) 1664
- (b) 1536
- (c) 1648
- (d) 1694

(e) None of these

Q2. The number of boys in GNAV is approximately what per cent of the number of girls in APS?

- (a) 45.66%
- (b) 80.16%
- (c) 35.50%
- (d) 51.33%
- (e) 56.83%

Q3. What is the total number of boys admitted in all the schools in 2010–2011 ?

- (a) 10,004
- (b) 9,766
- (c) 10,234
- (d) 11,405
- (e) 10534

Q4. The total number of boys taking admission in all schools is approximately what per cent more than the total number of girls taking admission in all schools in 2010 – 2011?

- (a) 4.80%
- (b) 4.50%
- (c) 4.90%
- (d) 5.04%
- (e) 5.20%

Q5. The number of girls who have taken admission in MPPS is how many times the number of boys who have taken admission in GNAV?

- (a) 0.625
- (b) 1.50
- (c) 1.60
- (d) 0.98
- (e) 1.20

Q6. Time taken by a boat to cover (D-11) km in upstream is 5 times of the time taken by boat to cover (D-21) km in downstream. If ratio of speed of current to speed of boat in downstream is 1 : 3 and boat can cover (D-8) km in upstream in 14 hours, then, find speed of boat in still water?

- (a) 6 kmph
- (b) 4 kmph
- (c) 8 kmph
- (d) 5 kmph
- (e) 7 kmph

Q7. Length of rectangle is equal to the radius of a circle whose circumference is 176 cm and breadth of rectangle is equal to the side of square whose area is 196 cm^2 , then find the length of a diagonal of that rectangle?

- (a) $2\sqrt{130}$ cm
- (b) $14\sqrt{5}$ cm
- (c) $14\sqrt{3}$ cm
- (d) $14\sqrt{6}$ cm
- (e) $14\sqrt{2}$ cm

Q8. A, B and C can complete a work in 20 days working together. A and B together are 50% more efficient than C and A & C together are 100% more efficient than B. Then in how many days A alone can complete the work?

- (a) None of these
- (b) 85 days
- (c) 80 days
- (d) 75 days
- (e) 65 days

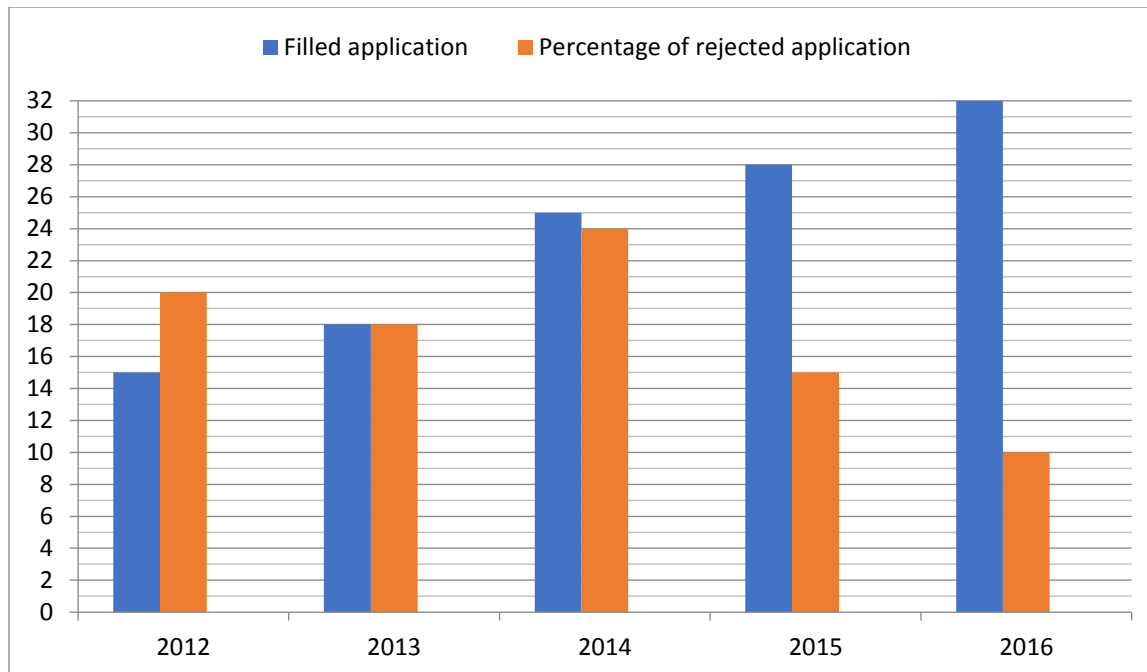
Q9. A container contains mixture of milk and water in the ratio 7 : x. If 20 litre of water is added to mixture then ratio of milk to water becomes 7 : 15 and if 10 litres of water is added then ratio of milk to water becomes 14 : 25. Find initial quantity of milk in the mixture.

- (a) 42 L
- (b) 35 L
- (c) 28 L
- (d) 21 L
- (e) 14 L

Q10. Veer bought 12 jeans at a discount of 12.5%. If cost price of one jeans is 80% of marked price of one jeans and total profit obtained on all jeans is Rs.1800 then find the total cost price of one jeans.

- (a) Rs. 1200
- (b) Rs. 1700
- (c) Rs. 2000
- (d) Rs. 1800
- (e) Rs. 1600

Direction (11-15): Given below bar graph shows number of applications (in lakh) filled for 'SBI PO' in five different years and percentage of applications rejected in that respective years. Read the data carefully and answer the questions.



Q11. Find difference between total applications accepted in the year 2016 & 2013?

- (a) 12.04 lakh
- (b) 11.04 lakh
- (c) 8.08 lakh
- (d) 14.04 lakh
- (e) 6.08 lakh

Q12. Find ratio between total applications rejected in the year 2012 to total accepted applications in the year 2014?

- (a) 3 : 19
- (b) 5 : 19
- (c) 7 : 19
- (d) 9 : 19
- (e) 11 : 19

Q13. Total rejected applications in the year 2014 is approximate what percent less than total accepted applications in the year 2015?

- (a) 65%
- (b) 60%
- (c) 55%
- (d) 75%
- (e) 48%

Q14. Find the average number of applications accepted in the year 2013 & 2016?

- (a) 18.78 lakh
- (b) 14.78 lakh
- (c) 21.78 lakh
- (d) 16.78 lakh

(e) 12.78 lakh

Q15. If out of total accepted applications in the year 2013 & 2015 75% & 80% applicants respectively appeared in exam, then find total appeared applicants in the exam in both the years is approximate what percent of total applicants applied in these given years?

- (a) 60%
 (b) 65%
 (c) 84%
 (d) 76%
 (e) 80%

Solutions

S1. Ans. (b)

Sol. Total number of those who have taken the admission in MPPS

$$= 20,000 \times \frac{16}{100} \times \frac{48}{100} = 1536$$

S2. Ans. (d)

Sol.

$$= \frac{20000 \times \frac{12}{100} \times \frac{40}{100}}{20000 \times \frac{17}{100} \times \frac{55}{100}} \times 100$$

Required per cent

$$= \frac{12 \times 40}{17 \times 55} \times 100 = 51.33\% \text{ (approx.)}$$

S3. Ans. (c)

Sol. Total number of boys taking admission in all the schools = $\frac{20000}{100 \times 100}$

$$[22 \times 55 + 18 \times 60 + 16 \times 52 + 17 \times 45 + 15 \times 50 + 12 \times 40] = 2 \times 5117 = 10234$$

S4. Ans. (a)

Sol. Total number of girls taking admission in all schools

$$= 20,000 - 10234 = 9766$$

$$\text{Required per cent} = \frac{(10234 - 9766) \times 100}{9766}$$

$$= 4.80\%$$

S5. Ans. (c)

Sol. Required answer

$$= \frac{20000 \times \frac{16}{100} \times \frac{48}{100}}{20000 \times \frac{12}{100} \times \frac{40}{100}} = \frac{16 \times 48}{12 \times 40} = 1.60 \text{ times}$$

S6. Ans.(b)

Sol.

Let speed of boat in still water = x kmph

And speed of current = y kmph

∴ upstream speed = (x - y) kmph

Downstream speed = (x + y) kmph

ATQ,

$$\frac{D-11}{x-y} = \frac{5(D-21)}{x+y} \quad \dots(i) \quad \left[\text{using time} = \frac{\text{Distance}}{\text{Speed}} \right]$$

Also,

$$\frac{y}{x+y} = \frac{1}{3}$$

$$\Rightarrow x+y = 3y$$

$$\Rightarrow x = 2y \quad \dots(ii)$$

From (i) & (ii)

$$\frac{D-11}{2y-y} = \frac{5(D-21)}{2y+y}$$

$$D-11 = \frac{5(D-21)}{3}$$

$$3D-33 = 5D-105$$

$$2D = 72$$

$$D = 36 \text{ km}$$

Also,

$$\frac{D-8}{x-y} = 14 \quad \left[\text{using time} = \frac{\text{Distance}}{\text{speed}} \right]$$

$$\frac{36-8}{2y-y} = 14$$

$$y = \frac{28}{14} = 2 \text{ kmph}$$

Speed of boat in still water = x = 2y

$$= 2 \times 2 = 4 \text{ kmph}$$

S7. Ans.(b)

Sol.

$$\text{Radius of circle (r)} = \frac{176}{2 \times \frac{22}{7}} = \text{length of rectangle } (\ell)$$

$$= 28 \text{ cm}$$

$$\text{Breadth of rectangle (b)} = \sqrt{196} = 14 \text{ cm}$$

$$\therefore \text{Diagonal of rectangle} = \sqrt{28^2 + 14^2} = \sqrt{980} \text{ cm} = 14\sqrt{5} \text{ cm}$$

S8. Ans.(d)

Sol.

Let efficiency of A, B and C be a, b and c respectively

ATQ,

$$\frac{a+b}{c} = \frac{3}{2} \quad \dots(i)$$

$$\frac{a+c}{b} = \frac{2}{1} \quad \dots(ii)$$

On solving (i) and (ii)

$$a : b : c = 4 : 5 : 6$$

$$\therefore A \text{ alone can complete in } = \frac{20 \times 15}{4} = 75 \text{ days}$$

S9. Ans.(c)

Sol.

Let initial quantity of milk and water in the mixture be $7y$ and xy respectively

So,

$$\frac{7y}{xy+20} = \frac{7}{15}$$

$$105y = 7xy + 140 \dots(i)$$

and

$$\frac{7y}{xy+10} = \frac{14}{25}$$

$$175y = 14xy + 140 \dots(ii)$$

Solving (i) and (ii)

$$y = 4$$

$$\text{Initial quantity of milk in mixture} = 7y = 28 \text{ L}$$

S10. Ans.(e)

Sol.

Let marked price of one jeans be $100x$

So cost price of one jeans be $80x$

and selling price of one jeans be $87.5x$

ATQ,

$$12 \times (87.5x - 80x) = 1800$$

$$7.5x = 150$$

$$\Rightarrow x = 20$$

$$\text{Total cost price of all jeans} = 80 \times 20 = \text{Rs. } 1600$$

S11. Ans(d)

Sol.

$$\text{Total applications accepted in the year 2016} = 32 \times \frac{90}{100} = 28.8 \text{ lakh}$$

$$\text{Total applications accepted in the year 2013} = 18 \times \frac{82}{100} = 14.76 \text{ lakh}$$

$$\text{Required difference} = 28.8 - 14.76 = 14.04 \text{ lakh}$$

S12. Ans(a)

Sol.

$$\text{Total rejected applications in the year 2012} = 15 \times \frac{20}{100} = 3 \text{ lakh}$$

$$\text{Total accepted applications in the year 2014} = 25 \times \frac{76}{100} = 19 \text{ lakh}$$

$$\text{Required ratio} = 3 : 19$$

S13. Ans(d)

Sol.

$$\text{Total rejected applications in the year 2014} = 25 \times \frac{24}{100} = 6 \text{ lakh}$$

$$\text{Total accepted applications in the year 2015} = 28 \times \frac{85}{100} = 23.8 \text{ lakh}$$

$$\begin{aligned} \text{Required percentage} &= \frac{23.8-6}{23.8} \times 100 \\ &= 74.78 \approx 75\% \end{aligned}$$

S14. Ans(c)

Sol.

$$\text{Total accepted applications in the year 2013} = 18 \times \frac{82}{100} = 14.76 \text{ lakh}$$

$$\text{Total accepted applications in the year 2016} = 32 \times \frac{90}{100} = 28.8 \text{ lakh}$$

$$\begin{aligned} \text{Required average} &= \frac{14.76+28.8}{2} \\ &= \frac{43.56}{2} = 21.78 \text{ lakh} \end{aligned}$$

S15. Ans(b)

Sol.

$$\text{Total applicants appeared in the year 2013} = 18 \times \frac{82}{100} \times \frac{3}{4} = 11.07 \text{ lakh}$$

$$\text{Total applicants appeared in the year 2015} = 28 \times \frac{85}{100} \times \frac{4}{5} = 19.04 \text{ lakh}$$

$$\text{Total appeared applicants} = 11.07 + 19.04 = 30.11 \text{ lakh}$$

$$\text{Required percentage} = \frac{30.11}{18+28} \times 100 \approx 65\%$$

For any Banking/Insurance exam Assistance, Give a Missed call @ 01141183264