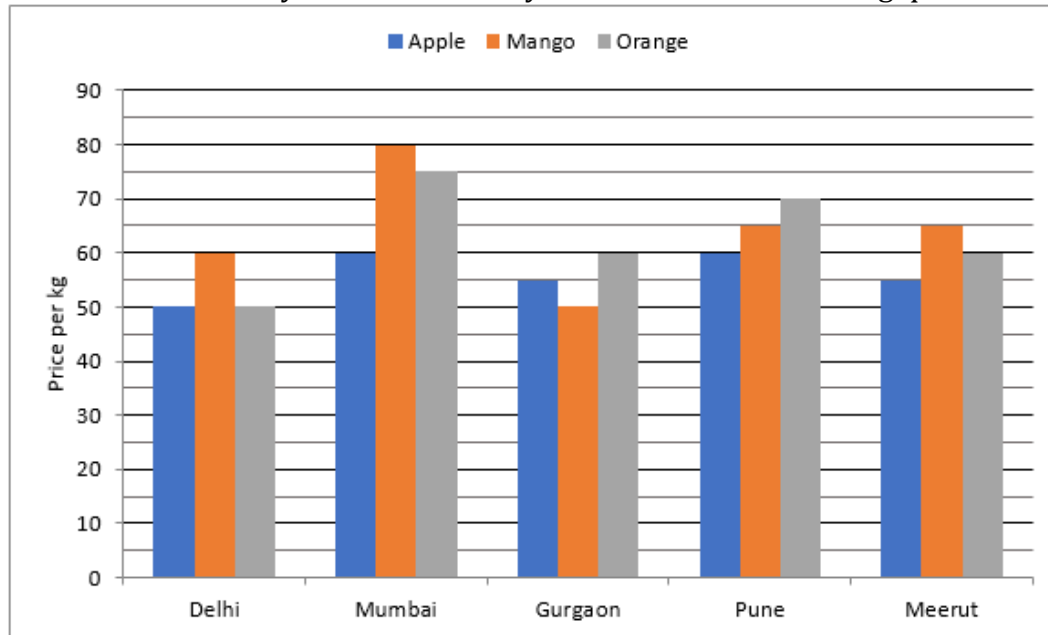**Quiz Date: 21st April 2020**

Directions (1-5): Bar graph given below shows price of per kg of three different fruits in five different cities. Study the data carefully and answer the following questions:

Q1. Total price of oranges in all the five cities together is what percent of the total price of apple in all the five cities together?
(a) 110%
(b) 120%
(c) 115%
(d) 112.5%
(e) 125%

Q2. Find the ratio between total price of all three fruits in Gurgaon to total price of all three fruits in Pune?
(a) 11 : 13
(b) 12 : 13
(c) 9 : 13
(d) 9 : 11
(e) 13 : 11

Q3. Satish bought 20 kg mango from Pune, 15 kg oranges from Meerut and 30 kg apple from Delhi. Find total amount Satish spend on fruits?
(a) Rs. 3200
(b) Rs. 3500
(c) Rs. 3700
(d) Rs. 4000
(e) Rs. 4500

Q4. In how many cities price of mango per kg is above than the average price of mango in the all the five cities?
(a) 5
(b) 4
(c) 2
(d) 1
(e) 3

Q5. Neeraj spend 25% more to buy all three fruits in city Agra as compare to in city Meerut. If price of apple, mango and orange per kg is in the ratio 2 : 3 : 4, then find the price per kg of orange in Agra city?
(a) 50
(b) 100
(c) 125
(d) 75
(e) 150

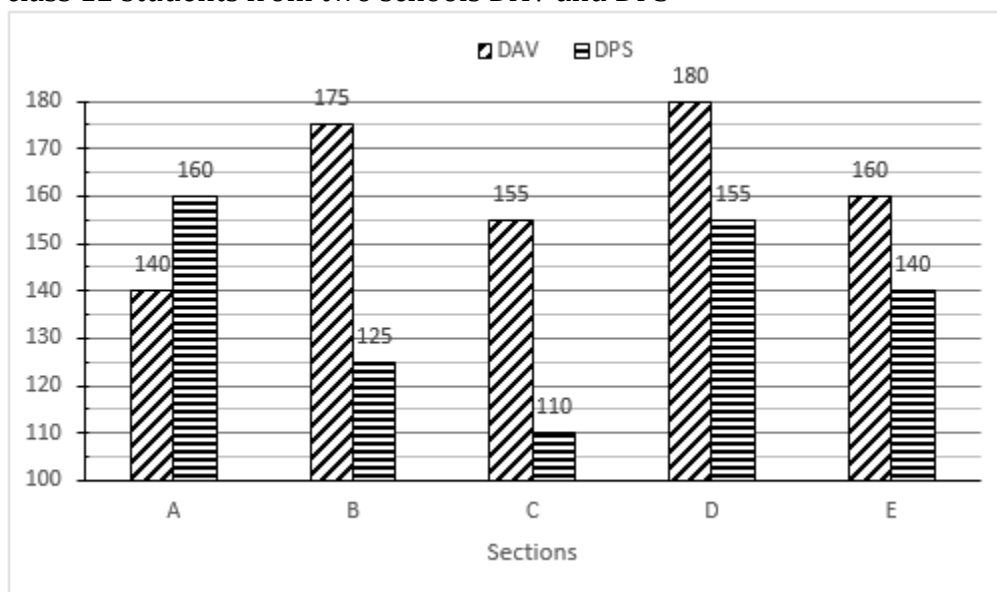Directions (6-10): The following bar graph shows the total no. of students in 5 sections of class 12 students from two schools DAV and DPS

Q6. Find the ratio of students from DAV in section C and D together to students from DPS in section B and E together.
(a) 58 : 63
(b) 67 : 53
(c) 37 : 29
(d) 57 : 49
(e) 49 : 57

Q7. If male and female students of section B in DPS and DAV are in ratio 3 : 2 and 4 : 3 respectively, then male students of section B are what much percent more than female students of section B considering both the schools.
(a) 50%
(b) 25%
(c) 36%
(d) 60%
(e) 40%

Q8. Find the difference of average number of students of DPS from section B, C and E and average students of DAV from section A, B and D.
(a) 40
(b) 32
(c) 26
(d) 48
(e) 56

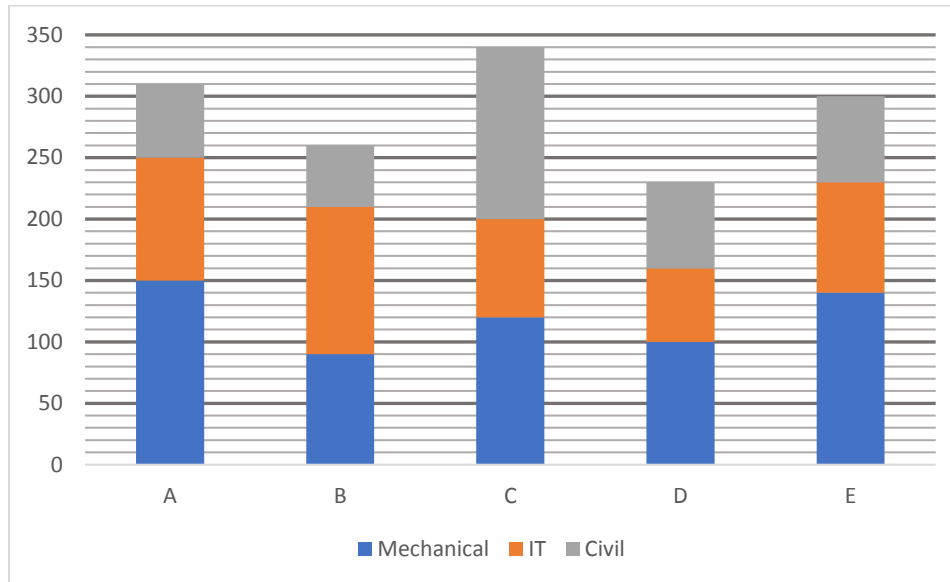Q9. Students from DAV are what percent more or less than students from DPS in all sections.

(a) $12\ \frac{1}{2}\%$
(b) $8\ \frac{1}{3}\%$
(c) 24%
(d) $17\frac{9}{23}\%$
(e) 14%

Q10. If in students from DPS in section A, B, C and D together, girl students are 20% more than boy students, then find the ratio of girl students to boy student from DPS in section A, B, C and D together.
(a) 6 : 5
(b) 7 : 9
(c) 5 : 6
(d) 3 : 5
(e) 7 : 11

Directions (11-15): Study the following bar graph carefully and answer the given question.

The following bar graph shows the no. of students in different branches of 5 engineering college in 2016.

Q11. What is the ratio of IT students from college C and D together to mechanical students from college B and E together in 2016?
(a) 23 : 14
(b) 20 : 21
(c) 14 : 23
(d) 21 : 20
(e) 7 : 11

Q12. If 25% IT students in college A and C in 2017 changed branch from IT to mechanical, then IT students are what percent of mechanical student in 2017 in college A and C together.
(a) $42\frac{6}{7}\%$
(b) $34\frac{1}{3}\%$
(c) $26\frac{2}{9}\%$
(d) $54\frac{1}{2}\%$
(e) $46\frac{3}{4}\%$

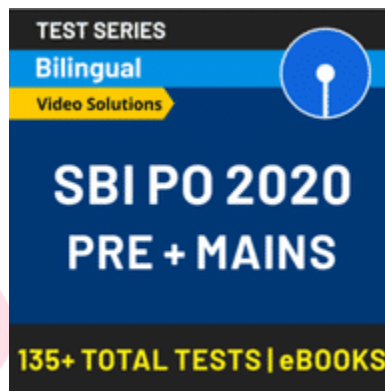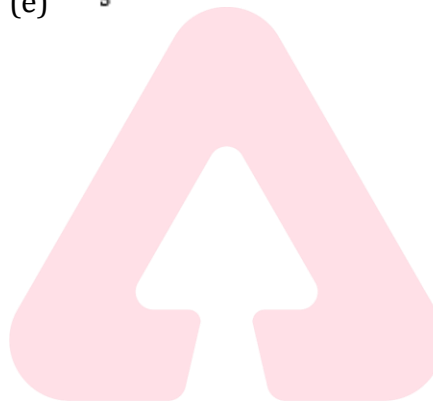Q13. Find the difference of Average students of all branches of college A and College C.
(a) 17
(b) 8
(c) 12
(d) 10
(e) 23

Q14. If ratio of boy to girl student in each college is 7 : 3, 3 : 2 and 4 : 1 for IT, civil and mechanical respectively, then find the difference of total girls from college B to total boys of college E
(a) 125
(b) 143
(c) 145
(d) 155
(e) 118

Q15. Total civil students are what percent less than total IT students in these five colleges?
(a) $13\frac{1}{3}\%$
(b) $16\frac{1}{2}\%$
(c) $12\frac{2}{3}\%$
(d) 18%
(e) $15\frac{3}{5}\%$

Solutions

S1. Ans.(d)
Sol.
Total price of oranges in all the five cities together =50+75+60+70+60=315
Total price of apple in all the five cities together =50+60+55+60+55=280
Required % $= \frac{315}{280} \times 100 = 112.5\%$

S2. Ans.(a)
Sol.
Total price of all three fruits in Gurgaon = 55+50+60=165
Total price of all three fruits in Pune = 60+65+70=195
Required Ratio $= \frac{165}{195} = \frac{11}{13}$

S3. Ans.(c)
Sol.

Total amount spends by Satish on fruits=20×65+15×60+30×50
= Rs. 3700

S4. Ans. (e)
Sol.

Average price of mango per kg in all the five cities $= \frac{60+80+50+65+65}{5} = \frac{320}{5} = 64$

In three cities i.e, Mumbai, Pune and Meerut price of mango per kg is greater than average price of mango per kg.

S5. Ans.(b)

Total amount spends by Neeraj in Meerut city
= 55 + 65 + 60 = 180
Total amount spends by Neeraj in Agra city
$= 180 \times \frac{125}{100} = 225$
Price of orange per kg in Agra
$= \frac{225}{9} \times 4 = Rs. 100$

Sol.

S6. Ans.(b)

Required ratio $= \frac{155+180}{125+140}$

$= \frac{335}{265} = \frac{67}{53}$

= 67: 53

Sol.

S7. Ans.(e)

DPS students of section B = 125

Male DPS students of section B $= \frac{3}{5} \times 125 = 75$

Female students of section B = 125 – 75 = 50

DAV students of section B = 175

Male DAV student of section B $= \frac{4}{7} \times 175 = 100$

Female DAV student of section B = 175 – 100 = 75

Total male in section B = 75 + 100 = 175

Total female in section B = 50 + 75 = 125

So required percent $= \frac{175 - 125}{125} \times 100 = 40\%$

Sol.

S8. Ans.(a)

Average students of DPS from section

B, C and E together = $\frac{125+110+140}{3}$ = 125

Average students of DAV from section

A, B, D together = $\frac{140+175+180}{3}$

= $\frac{495}{3}$ = 165

Required difference = 165 – 125 = 40

Sol.

S9. Ans.(d)

Total students in DAV

= 140 + 175 + 155 + 180 + 160 = 810

Total students in DPS

= 160 + 125 + 110 + 155 + 140 = 690

Required percentage = $\frac{810-690}{690}$ × 100

= $17\frac{9}{23}$ %

Sol.

S10. Ans.(a)

Total student from DPS in Section A, B, C, D

= 160 + 125 + 110 + 155

= 550

Let no. of male student = M

No. of female student = F

ATQ

M + F = 550

M + $\frac{120}{100}M$ = 550

220 M = 550 × 100

M = 250

So, F = 550 – 250 = 300

So Required ratio = $\frac{300}{250}$ = 6 : 5

Sol.

S11. Ans.(c)
Sol.

Required ratio = $\frac{80+60}{90+140}$ = $\frac{140}{230}$ = 14 : 23

S12. Ans.(a)

IT student in college A and C in 2017
$$= \left(100 - 100 \times \frac{25}{100}\right) + \left(80 - 80 \times \frac{25}{100}\right) = 135$$
Mechanical student in college A and C in 2017
$$= \left(150 + 100 \times \frac{25}{100}\right) + \left(120 + 80 \times \frac{25}{100}\right)$$
$$= 315$$
Required percentage $= \frac{135}{315} \times 100$
$$= 42\frac{6}{7}\%$$
Sol.

S13. Ans.(d)

Average of students of all branches of college A
$$= \frac{60+100+150}{3} = \frac{310}{3}$$
Average of students of all branches of college C
$$= \frac{140+80+120}{3} = \frac{340}{3}$$
Required difference $= \frac{340}{3} - \frac{310}{3}$
$$= \frac{30}{3} = 10$$
Sol.

S14. Ans.(b)
Sol.
Girls from college B $= 120 \times \frac{3}{10} + 50 \times \frac{2}{5} + 90 \times \frac{1}{5}$
$= 36 + 20 + 18 = 74$
Boys from college E $= 90 \times \frac{7}{10} + 70 \times \frac{3}{5} + 140 \times \frac{4}{5}$
$= 63 + 42 + 112 = 217$
Required difference $= 217 - 74$
$= 143$

S15. Ans.(a)

Total IT students = 100 + 120 + 80 + 60 + 90

= 450

Total civil students = 60 + 50 + 140 + 70 + 70

= 390

Required percent = $\frac{450-390}{450} \times 100$

Sol. $= 13\frac{1}{3}\%$

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