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Most Important DI Questions for IBPS Clerk 2020

Directions(1-5) :-Study the following information carefully and answer the questions as follows.

There are three halls, three pantry, three meeting rooms and one HR & one CEO room in the office of IBT. All halls, pantry, meeting rooms, HR room & CEO rooms are rectangular in shape and area of each hall is same, each pantry is same, each meeting room is same and area is different for HR & CEO room. Breadth of hall & pantry are 33 m & 15 m respectively, while ratio of length of hall to that of pantry is 22 : 7. The difference between perimeter of a hall & a pantry is 126 m, while area of a meeting room having breadth of 14 m is 77m^2 less than that of area of a pantry room. Ratio of magnitude of perimeter of HR room to area of that room is 19:88 and breadth of that room is 16 m. Length & breadth of CEO room is 8 m & 4 m more than that of length and breadth of HR room respectively. (Consider only 2D figure)

PLACE	LENGTH	BREADTH	AREA	PERIMETER
HALL	66	33	2178	198
PANTRY	21	15	315	72
MEETING ROOM	17	14	238	62
HR ROOM	22	16	352	76
CEO ROOM	30	20	600	100

Q1. Find the difference between perimeter of a Hall room & perimeter of a pantry?

- (1) 124 m^2 (2) 128 m^2
(3) 126 m^2 (4) 136 m^2
(5) 128 m^2

Ans 1. (3) Required answer= $198-72=126\text{ m}^2$

Q2. Find the area of CEO room?

- (1) 600 m^2 (2) 300 m^2
(3) 500 m^2 (4) 400 m^2
(5) None of these

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Ans 2.(1) Area of CEO room= $30 \times 20 = 600 \text{ m}^2$

Q3. What is the perimeter of Meeting room?

(1) 72 m^2 (2) 80 m^2

(3) 85 m^2 4. 62 m^2

5. None of these

Ans3.(4) Perimeter of meeting room= $2(17+14) = 62 \text{ m}^2$

Q4. Find the total area of HR and CEO room?

(1) 900 m^2 (2) 852 m^2

(3) 952 m^2 (4) 850 m^2

(5) None of these

Ans 4. (3) Required sum of area = $352 + 600 = 952 \text{ m}^2$

Q5. Find the sum of the perimeters of one Hall ,one pantry, one meeting room, CEO room and HR room together?

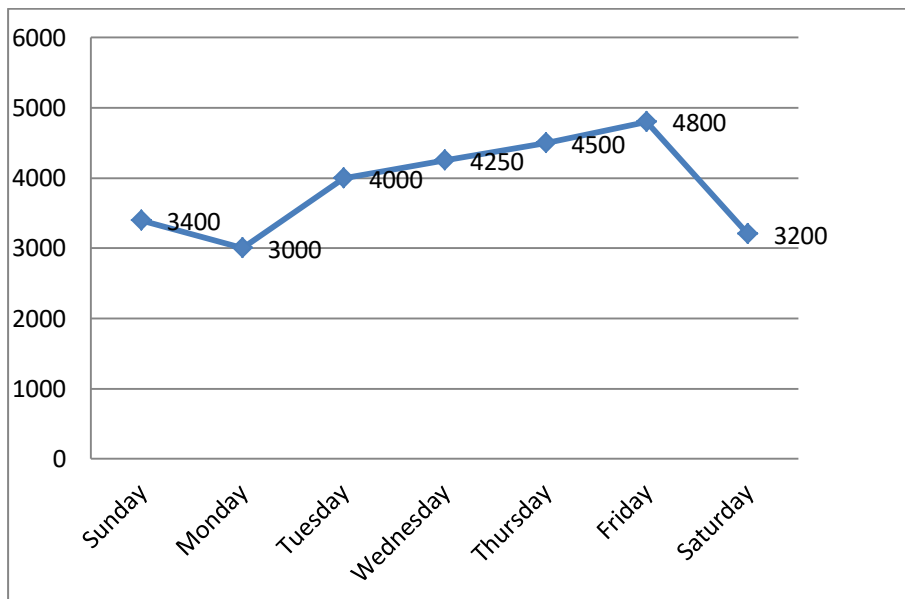
(1) 500 m^2 (2) 552 m^2

(3) 452 m^2 (4) 508 m^2

(5) None of these

Ans 5. (4) Total sum= $198 + 72 + 62 + 76 + 100 = 508 \text{ m}^2$

Directions (6-10) :- The line graph shows the no. of passengers who travels from DMU in 7 days of a given week. Study the graph carefully and answer the following question.



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Q6. What will be the average number of passengers travelled in DMU in all the days together?(Approx.)

- (1) 3878 (2) 3778
(3) 3668 (4) 3900
(5) None of these

Ans6. (1) Required average = $\frac{(3400+3000+4000+4250+4500+4800+3200)}{7} = \frac{27150}{7} = 3878$ (Approx.)

Q7. If the ratio between male and female passengers on Thursday is 8:7 .Find the difference between male and female members?

- (1) 250 (2) 400
(3) 350 (4) 300
(5) None of these

Ans 7. (4) Total number of passenger on Thursday=4500
Let Male and female members are 8x and 7x respectively.
 $15x=4500$
 $x=300$
Required difference = $8x-7x=x$
 $X=300$

Q8. Number of passengers on Monday is what percent of number of passengers on Friday?

- (1) 25% (2) 62.50%
(3) 50% (4) 82.50%
(5) None of these

Ans8. (2) Required % = $\frac{3000}{4800} \times 100 = 62.50\%$

Q9. Find the ratio of total number of passengers on Sunday and Monday to the total number of passengers on Friday and Saturday together?

- (1) 3:4 (2) 5:4
(3) 4:3 (4) 4:5
(5) None of these

Ans9. (4) Required ratio = $(3000+3400):(4800+3200)$
 $=6400:8000$
 $=4:5$

Q10. Find total revenue of DMU on Saturday if ticket cost is Rs.25?

- (1) Rs 80000 (2) Rs 84000
(3) Rs 85000 (4) Rs 82500

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(5) None of these

Ans10. (1) Required answer = $25 \times 3200 = \text{Rs } 80000$

Directions (11-15): Study the table carefully to answer the given questions below. Given table shows that total production of rice in five different persons in 5 different years. (in kg)

Years	A	B	C	D
2014	1400	1800	2800	1950
2015	1600	2250	2600	2100
2016	2100	2550	2500	2600
2017	2400	3600	2900	2900
2018	3200	3000	3000	3300

Q11. What will the profit earned by A in year 2017 if production cost on per kg of rice by A is 600 and he sold it at Rs.800 per kg?

(1) Rs 422280

(2) Rs 403080

(3) Rs 484480

(4) Rs 480000

(5) None of these

Ans11. (4) Profit on 1 kg = $800 - 200 = \text{Rs } 200$

Total profit = $2400 \times 200 = \text{Rs } 480000$

Q12. What will be the average production of rice in 2016 by the all the persons together?

(1) 2637.5 kg

(2) 2437.5 kg

(3) 2337.5 kg

(4) 2537.5 kg

(5) None of these

Ans12. (2) Required average = $\frac{2100 + 2550 + 2500 + 2600}{4} = 2437.5 \text{ kg}$

Q13. If out the total production of rice by D in all the given years 30% is rotten. Then find the quantity of rotten rice?

(1) 3855 kg

(2) 4035 kg

(3) 4844 kg

(4) 4805 kg

(5) None of these

Ans13. (1) Total production of D in all given years = 12850 kg

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$$\text{Quantity of rotten rice} = 12850 \times \frac{30}{100} = 3855 \text{ kg}$$

Q14. Which of following persons gives continuous rise in production of rice in all the given years?

- (1) A (2) D
(3) A and B (4) C
(5) None of these

Ans14. (5) clearly from table there is continues production in the rice by A and D.

15. What will be the ratio of total production in year 2014 and 2015 by C to B in same year?

- (1) 5:2 (2) 2:5
(3) 4:3 (4) 3:4
(5) None of these

Ans15. (3) Required ratio = $(2800 + 2600) : (1800 + 2250)$
 $= 5400 : 4050$
 $= 4 : 3$

Direction(16-20): Read the data carefully and answer the questions.

Mr. 'A' type Different number of Words per Day. He worked for four days. The number of words typed by him on three different days: Monday, Tuesday, and Wednesday are in the ratio 3 : 4 : 2. Also number of words typed by Mr. 'A' on Sunday is 30% of the total words typed in four days. The no. of words typed by Mr. 'A' on Wednesday is 560.

Q16. Total number of words typed on all the days together?

- (1) 3500 (2) 3600
(3) 3400 (4) 3800

Ans16. (5) None of these

Q16.(2) $1080 + 840 + 1120 + 560 = 3600$

Day	Number of words typed
Sunday	1080
Monday	840
Tuesday	1120

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Wednesday	560
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Q17. Find average number of words type by Mr. 'A' on Sunday, Wednesday & Tuesday.

(1) 920 (2) 890

(3) 880 (3) 910

5.900

$$\text{Ans17. (1)} \frac{1080+560+1120}{3} = \frac{2760}{3}$$

=920

Q18. Find difference between total words type by Mr. 'A' on Sunday & Wednesday.

(1) 540 (2) 530

(3) 580 (4) 520

(5) None of these

18.(4) Required difference=1080-560=520

19. Find ratio between total words type by Mr. 'A' on Sunday to total words typed by Mr. 'X' on same day, if total words typed by Mr. 'X' on Sunday is 25% less than total words type by Mr. 'A' on Tuesday?

1.9 : 8

2.9 : 7

3.1 : 1

4.3 : 7

5.1 : 3

$$\text{Ans19. (2) Required ratio}=1080: 1120 \times \frac{75}{100}$$

=9:7

Q20. If ratio between total number of words type by Mr. 'A' & Mr. 'Y' on Monday is 2 : 3, then find total words type by Mr. 'Y' on Monday?

(1) 220 (2)1200

(3)1260 (4)1230

(5)1280

$$\text{Ans20. (3) Required answer}=840 \times \frac{3}{2} = 1260$$

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Directions(21-25). Paragraph gives information about cost price, selling price and profit or loss percentage of five different articles (A, B, C, D and E) manufactured by the company. Read the paragraph and give answer based on it. Total cost price of five article is Rs. 70000. Ratio of cost price of article B, C and E is 5:7:9 respectively. Company earns 15%, 10% and 30% profit on article A, D and E and 20%, 25% loss on article B and C respectively. Cost price of article A is Rs. 8500. C.P of D and E is same.

Q21. What will be the cost price of article D?

- (1) 18650 (2) 18150
(3) 18450 (4) 18000
(5) None of these

Ans21. (3)

Article	COST PRICE	SELLING PRICE
A	8500	9775
B	10250	8200
C	14350	10762.5
D	18450	20295
E	18450	23985

CP of D=18450

Q22. What will be the SP of article B?

- (1) 8650 (2) 8200
(3) 8150 (4) 8025
(5) None of these

Ans22. (2)

Article	COST PRICE	SELLING PRICE
A	8500	9775
B	10250	8200
C	14350	10762.5
D	18450	20295

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E	18450	23985
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SP of article B=8200

Q23. What will be the difference between the CP of C and SP of D?

- (1) 5945 (2) 6945
(3) 6445 (4) 6545
(5) None of these

Ans23. (1)

Article	COST PRICE	SELLING PRICE
A	8500	9775
B	10250	8200
C	14350	10762.5
D	18450	20295
E	18450	23985

Required difference=20295-14350=5945

Q24. Find the overall profit/loss amount?

- (1) 2817.5 (2) 3017.5
(3) 2917.5 (4) 3117.5
(5) None of these

Ans24. (2)

Article	COST PRICE	SELLING PRICE
A	8500	9775
B	10250	8200
C	14350	10762.5
D	18450	20295
E	18450	23985

Total cost price=70000

Total selling price=73017.5

Profit=73017.5-70000=3017.5

Q25. What will be the ratio of SP of E and D?

- (1) 15:13 (2) 13:15

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(3) 13:11 (4) 11:13

(5) None of these

Ans25. (3)

Article	COST PRICE	SELLING PRICE
A	8500	9775
B	10250	8200
C	14350	10762.5
D	18450	20295
E	18450	23985

Required ratio=23985:20295

=13:11

Directions: (26-30) Study the following information and answer the questions.

There are three banks namely Axis bank, Yes bank and ICICI bank. Ratio of male to female employees in Axis Bank is 3:4. Number of male employees in Yes Bank is 1000. Total male employees in all banks together are 2000. Female employees in ICICI bank are half of female employees in Axis Bank while female employees in Yes bank are double of the female employees in Axis Bank. Male and female employees in ICICI bank are equal.

Q26. Find total female employees in Yes bank and ICICI bank together?

(1) 2000 (2) 1200

(3) 1600 (4) 1500

(5)1800

Ans26. (1)Required answer=1600+400=2000

BANKS	MALE	FEMALE
Axis Bank	600	800
Yes Bank	1000	1600

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ICICI BANK	400	400
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Q27. What is the difference between female employees of Yes bank and male employees of ICICI bank?

- (1) 1650 (2) 1600
(3) 1700 (4) 1800
(5) None of these

Ans27. (5) Required answer=1600-400=1200

Q28. Female employees in Yes bank are what percent more than male employees in same bank?

- (1) 60% (2) 80%
(3) 160% (4) 40%
(5) 150%

Ans28. (1) Required answer= $\frac{600}{1000} \times 100 = 60\%$

Q29. If 20% of female employees of Axis bank and 25% of male employees of ICICI bank left the job, then total employees who left their job are what percent less than male employees of Yes bank?

- (1)70% (2) 65%
(3)80% (4) 74%
(5) 75%

Ans29. (4) Total employees who left the job= $\frac{1}{5} \times 800 + \frac{1}{4} \times 400 = 160 + 100 = 260$

Required %= $\frac{1000-260}{1000} \times 100 = 74\%$

Q30. Total male employees in Axis bank and ICICI bank together are how many less than total female employees of all banks together?

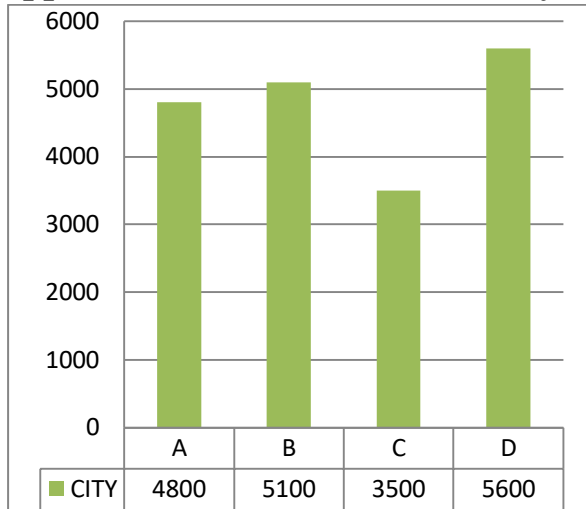
- (1) 1600 (2) 1200
(3) 2000 (4) 1800
(5) 2200

Ans30. (2) Require answer=2800-1600=1200

Directions(31-35).The given line graphs shows the total number of applicants who have applied for SBI PO examination from four different

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cities and the table shows the ratio between number of male and female applicants. Read the data carefully and answer the following questions.



CITY	RATIO OF MALE TO FEMALE
A	9:7
B	10:7
C	4:3
D	9:5

Q31. The number of female applicants from cities A and B together is approximately what percent of the total number of male applicants from cities C and D together?

- (1) 50% (2) 45%
 (3) 75% (4) 60%
 (5) None of these

Ans31. (3) Required % = $\frac{2100+2100}{2000+3600} \times 100 = \frac{4200}{5600} \times 100$
 =75%

City	Total	Male	Female
A	4800	2700	2100
B	5100	3000	2100
C	3500	2000	1500

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D	5600	3600	2000
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Q32. What is the average of all the male applicants from all the cities?

- (1) 2750 (2) 2825
(3) 3050 (4) 2950
(5) None of these

Ans32. (2) $2700+3000+2000+3600=11300$

Average= $11300/4=2825$

Q33. The difference of the number of male applications from city B and female applications from city D is what percent more or less than the difference of the number of male and female applicants of city C?

- (1) 50% more (2) 45% less
(3) 75% less (4) 60% more
(5) None of these

Ans33. (5) Required %= $\frac{(1000-500)}{500} \times 100$

=100% more

Q34. The number of applicants from another city E is 20% more than the average number of applicants from these four cities and the ratio of male to female applicants in this city is 11 : 8. Find the ratio of difference of the number of male and female applicants from city B to the difference of the male and female applicants from city E?

- (1) 4:5 (2) 5:4
(3) 1:1 (4) 2:1
(5) None of these

Ans 34. (3) Average number of applicant= $(4800+5100+3500+5600)/4=19000/4=4750$

Total applicants in E= $4750 \times \frac{120}{100} = 5700$

Difference between Male and Female of E= $\frac{3}{19} \times 5700 = 900$

Required ratio= $900:900=1:1$

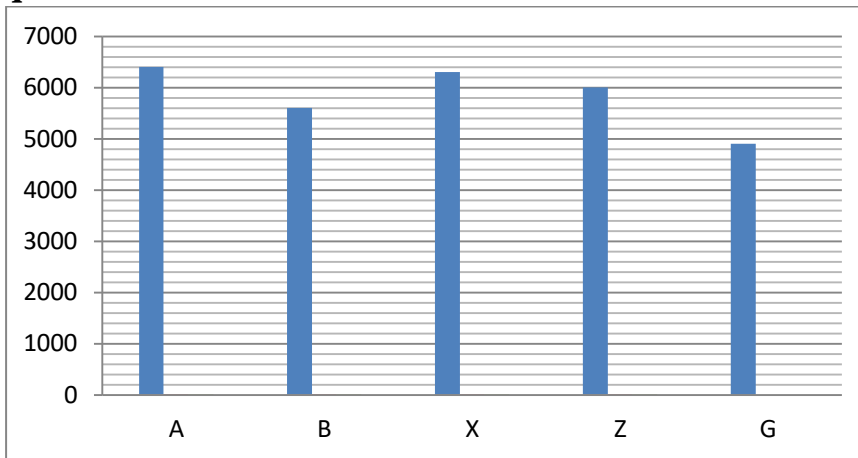
Q35. Find the sum of the total number of male applicants from city B and D and the number of female applicants from cities A and C?

- (1) 10750 (2) 12850
(3) 10050 (4) 12950
(5) None of these

Ans35. (5) Required sum= $3000+3600+2100+1500=10200$

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Directions(36-40). Given below bar graph shows total number of complaints registered in five police stations in one year and table shows percentage of solved complaints. Read the data carefully and answer the questions.



Police stations	% of solved complaints
A	$18\frac{3}{4}\%$
B	37.50%
X	$42\frac{6}{7}\%$
Z	25%
G	$28\frac{4}{7}\%$

Q36. Find the average number of pending complaints in police stations A, X and G?

- (1) 4350 (2) 4200
(3) 4500 (4) 4100
(5) None of these

Ans36. (4) Required average= $(5200+3600+3500)/3$
 $=4100$

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Police Stations	Total complaints	Solved	Pending
A	6400	1200	5200
B	5600	2100	3500
X	6300	2700	3600
Z	6000	1500	4500
G	4900	1400	3500

Q37. Total complaint solved in police station Z is what percent less than total complaints Solved in police station A & G together?(Approx.)

- (1) 50% (2) 45%
(3) 75% (4) 60%
(5) None of these

Ans 37. (5) Required % = $\frac{2600-1500}{2600} \times 100 = 42\%$ (Approx.)

Q38. Total number of complaints solved in police stations A & B is how much more/less than total pending complaints in police station X?

- (1) 350 (2) 200
(3) 500 (4) 400
(5) None of these

Ans38. (5) Required difference = $3600 - 3300 = 300$

Q39. Find the ratio of total solved complaints in police stations B & Z together to total pending complaints in police station X?

- (1) 4:5 (2) 5:4
(3) 1:1 (4) 2:1
(5) None of these

Ans39. (3) Required ratio = $(2100 + 1500) : 3600$
 $= 1:1$

Q40. Total pending complaints in police station A is what percent more than total pending complaints in police station B?

- (1) 70% (2) 48%
(3) 59% (4) 69%
(5) None of these

Ans40. (2)

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$$\text{Required \%} = \frac{5200-3500}{3500} \times 100 = \frac{1700}{3500} \times 100 = 48.57 \cong 48\%$$

Direction (41-45): Following table gives the detail of items sold by two different stores i.e Store A and Store B and among them percentage of numbers of items purchased by males are given.(h)

Days	Store P		Store Q	
	Total items	% of items purchased by males	Total items	% of items purchased by males
Monday	460	40	640	40
Tuesday	560	30	880	25
Wednesday	680	45	540	80
Thursday	720	60	760	65
Friday	840	50	550	30

Q41. Find the difference between Items purchased by males from store P on Wednesday and Thursday together and the total items purchased by females from store Q on Thursday and Friday together?(Approx.)

- (1)97 (2)87
 (3)77 (4)83
 (5) None of these

Ans41. (2) Required difference=(306+432)-(266+385)
 738-651=87

Q42. Total number of items purchased by males in both stores on Wednesday?

- (1) 797 (2)787
 (3) 777 (4)783
 (5) None of these

Ans42. (4) Required sum=306+432=738

Q43. Find the respective ratio between total number of items purchased by males from store P on Tuesday and Wednesday together to the total numbers of items purchased by females from store Q on Thursday and Friday together?

1. 145:173 2. 141:171
 3. 173:141 4. 158:217
 5. 137:171

Ans 43. (4) Required ratio=(168+306):(266+385)

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=474:651=158:217

Q44. What is the difference between items sold in both together in all days?

(1) 107 (2) 117

(3) 110 (4) 113

(5) None of these

Ans44. (3) Required difference=3370-3260=110

Q44. Find the total number of items purchased by females from store P on all the given days together?

(1) 1636 (2) 1750

(3) 1612 (4) 1852

(5) 1882

Ans45. (2) Required sum=276+392+374+288+420=1750