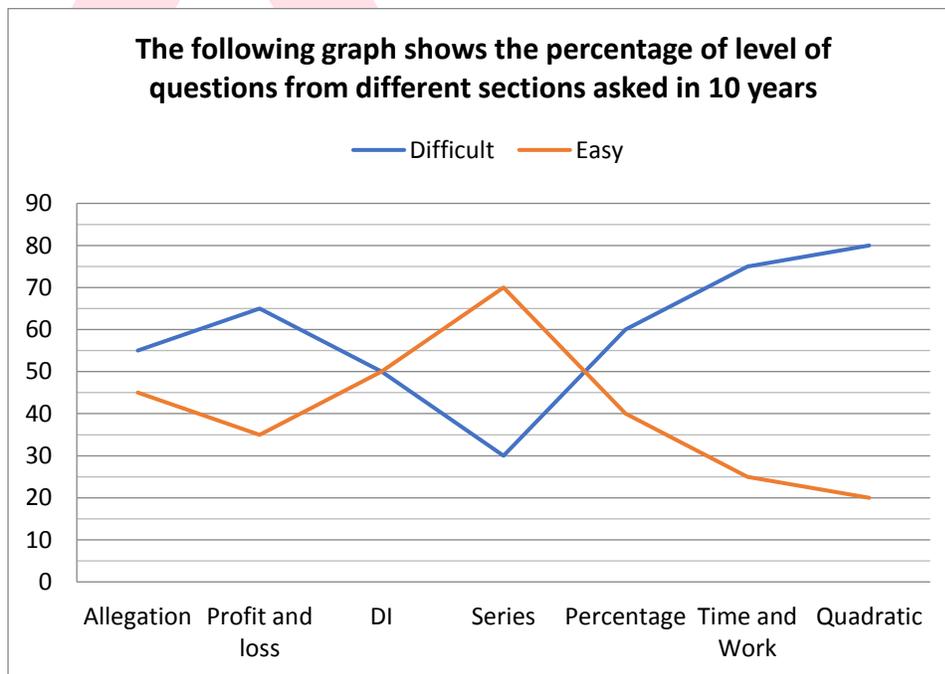
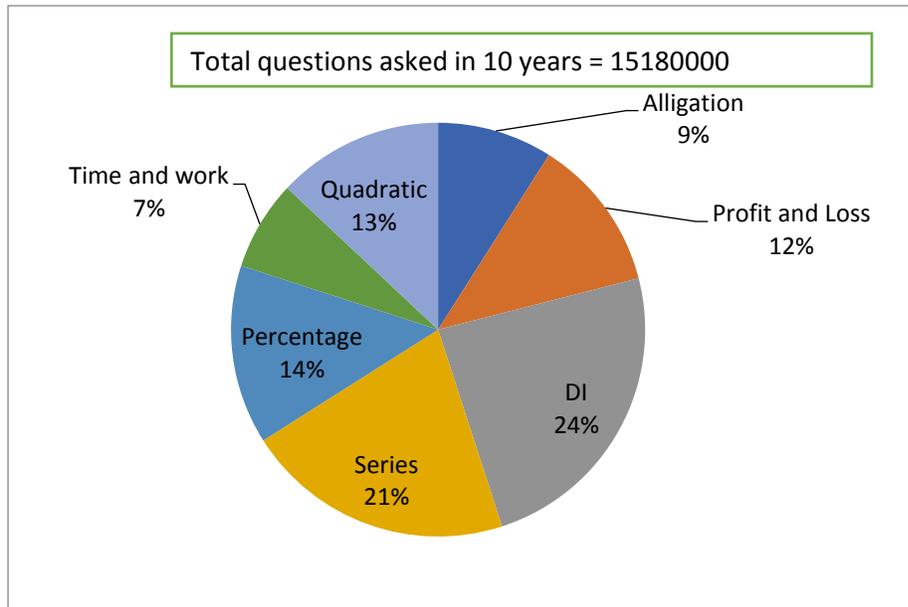


**Quiz Date: 4<sup>th</sup> April 2020**

Directions (1-5): Study the following graph and answer the questions accordingly:  
 The following pie-chart shows the percentage distribution of questions asked from different sections of quant in 10 years in various banking exams



Q1. What is the difference between the number of difficult questions asked from DI and Series sections ?

(a) 693342

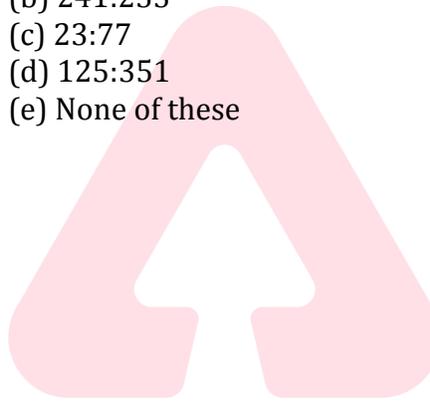
- (b) 865260
- (c) 682503
- (d) 721050
- (e) 713394

Q2. The number of difficult questions asked from Alligation section are approximately what percent of number of difficult questions asked from Quadratic section ?

- (a) 48%
- (b) 67%
- (c) 37%
- (d) 24%
- (e) 73%

Q3. What is the ratio of total number of easy questions asked from Alligation and Profit and Loss sections together to the total number of easy questions asked from Percentage and Time and work sections together ?

- (a) 111:123
- (b) 241:233
- (c) 23:77
- (d) 125:351
- (e) None of these



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Q4. The number of difficult questions asked from Series section are what percent more or less than the total number of questions asked from Percentage section?

- (a) 61% less
- (b) 59% less
- (c) 55% less
- (d) 67% more
- (e) 60% less

Q5. What is the average number of difficult questions asked from DI, Quadratic and Alligation sections together ?

- (a) 2745340
- (b) 1756880
- (c) 2383400
- (d) 1383910

(e) None of these

Q6. Sadab have 3 boxes and 3 types of balls (Green, Red and blue). Total number of Green balls are 24 and total number of Red balls are double the total number of blue balls, then put Green balls in box 1, box 2 and box 3 in ratio of 1 : 2 : 5, and Red and Blue balls both in 2 : 4 : 3 respectively. He has to choose one Green ball from either of the box. Find out its probability if red balls are  $\frac{600}{17}$ % of the total number of balls.

(a)  $\frac{31}{72}$

(b)  $\frac{42}{97}$

(c)  $\frac{23}{49}$

(d)  $\frac{33}{56}$

(e) none of these

Q7. Find the probability of selecting a face card from a well shuffled pack of card given that 2 additional Joker card also counts as a face card.

(a)  $\frac{7}{26}$

(b)  $\frac{14}{27}$

(c)  $\frac{7}{27}$

(d)  $\frac{7}{52}$

(e) None of these

Q8. A committee of 5 people is to be formed among 4 girls and 5 boys. What is the probability that the committee will have less number of boys than girls?

(a)  $\frac{3}{14}$

(b)  $\frac{7}{13}$

(c)  $\frac{3}{5}$

(d)  $\frac{5}{14}$

(e) None of these

Q9. A blind man lives in an apartment containing 2 rooms. Each day before going to work he enters any one room randomly, picks up a bag and leaves home. One of the rooms contains 3 blue, 4 green and 5 red bags and the other contains 2 blue, 1 green and 3 red bags. What is the probability that he takes a green bag to work ?

(a)  $\frac{1}{2}$

(b)  $\frac{1}{4}$

(c)  $\frac{1}{3}$

(d)  $\frac{1}{6}$

(e)  $\frac{2}{3}$

Q10. A coin is so biased that the heads occur four times as frequently as tails. Another coin is biased such that the heads occurs 65% of the times. When the two coins are tossed simultaneously, what is the probability of at least one tail turning up?

- (a) 35%
- (b) 87%
- (c) 48%
- (d) 73%
- (e) 65

Directions (11 – 15): In the following number series one of the numbers is wrong. Find out the wrong one, put it in place of (A) and form a new series based on the same pattern as given in question and find the number that should come in place of (F).

Q11. 1225, 1237, 1255, 1287, 1329, 1385, 1457

(A) , (B) , (C) , (D) , (E), (F)

- (a) 1324
- (b) 1625
- (c) 1415
- (d) 1425
- (e) 1675

Q12. 2269, 2271, 2274, 2279, 2286, 2295, 2310

(A) , (B) , (C) , (D) , (E) , (F)

- (a) 2323
- (b) 2537
- (c) 2765
- (d) 2461
- (e) 2823

Q13. 121, 136, 171, 236, 333, 476, 671, 926

(A) , (B) , (C) , (D) , (E), (F)

- (a) 497
- (b) 527
- (c) 520
- (d) 591
- (e) 408

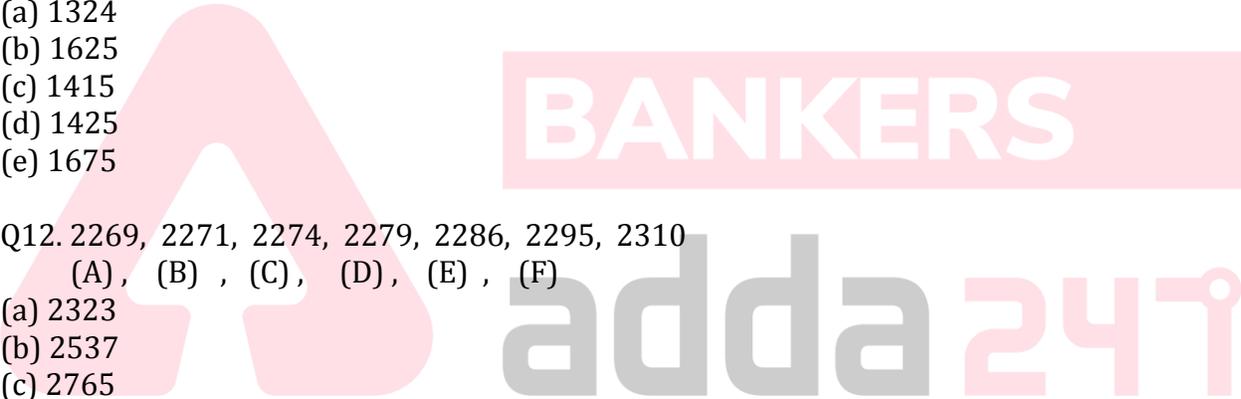
Q14. 1135, 1142, 1128, 1149, 1100, 1212, 988

(A) , (B) , (C) , (D) , (E) , (F)

- (a) 1213
- (b) 1226
- (c) 1235
- (d) 1128



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(e) 1135

Q15. 1125, 1130, 1138, 1152, 1180, 1228, 1326

(A) , (B) , (C) , (D) , (E) , (F)

(a) 1187

(b) 1225

(c) 1283

(d) 1223

(e) 1197

**Solutions**

S1. Ans. (b)

$$\begin{aligned} \text{Sol. Required difference} &= \frac{24}{100} \times 15180000 \times \frac{50}{100} - \frac{21}{100} \times 15180000 \times \frac{30}{100} \\ &= 1821600 - 956340 = 8,65,260 \end{aligned}$$



S2. Ans. (a)

$$\begin{aligned} \text{Sol. Required percentage} &= \frac{9 \times 55}{13 \times 80} \times 100 \\ &\approx 48\% \text{ (approximately)} \end{aligned}$$

S3. Ans. (e)

Sol. Total no. of easy questions asked from allegation and profit and loss sections together

$$\begin{aligned} &= \frac{9}{100} \times 15180000 \times \frac{45}{100} + \frac{12}{100} \times 15180000 \times \frac{35}{100} \\ &= 614790 + 637560 = 12,52,350. \end{aligned}$$

Total no of easy questions asked from Percentage and time and work sections.

$$\begin{aligned} &= \frac{14}{100} \times 15180000 \times \frac{40}{100} + \frac{7}{100} \times 15180000 \times \frac{25}{100} \\ &= 850080 + 265650 = 11,15,730 \end{aligned}$$

$$\text{Required ratio} = \frac{12,52,350}{11,15,730} = \frac{13915}{12397}$$

S4. Ans. (c)

Sol. Total no. of difficult questions asked from series section.

$$= \frac{21}{100} \times 15180000 \times \frac{30}{100} = 9,56,340$$

Total questions asked from percentage section

$$= \frac{14}{100} \times 15180000 = 21,25,200$$

$$\text{Required percentage} = \frac{2125200 - 956340}{2125200} \times 100 = 55\%$$

Answer=55% less

S5. Ans. (d)

Sol. Required average

$$= \frac{1}{3} \times (24 \times 1518 \times 50 + 13 \times 1518 \times 80 + 9 \times 1518 \times 55)$$

$$= \frac{1}{3} \times 4151730 = 13,83,910$$

S6. Ans.(a)

Sol. Let total no. of Blue balls = x

Red balls = 2x

Green balls = 24

$$\text{Now Red balls} = \frac{2x}{x+2x+24} \times 100 = \frac{600}{17}$$

$$= \frac{2x}{3x+24} = \frac{6}{17}$$

$$x = 9$$

Number of red balls; 2x = 18

Number of blue balls; x = 9

Box 1 → Total balls → 2 blue + 4 Red + 3 Green

Box 2 → Total balls → 4 blue + 8 Red + 6 Green

Box 3 → Total balls → 3 blue + 6 Red + 15 Green

$$\text{Required Probability} = \frac{1}{3} \left( \frac{3}{9} + \frac{6}{18} + \frac{15}{24} \right) = \frac{31}{72}$$

S7. Ans.(c)

Sol. Face card = 12

Joker = 2

$$\text{Probability} = \frac{14}{54} = \frac{7}{27}$$

S8. Ans.(d)

Sol.

There are two cases

1<sup>st</sup> case:

1 boy and 4 girls

$$\text{probability} = \frac{{}^5C_1 \times {}^4C_4}{{}^9C_5} = \frac{5}{126} \quad \dots (i)$$

2<sup>nd</sup> case:

2 boys & 3 girls

$$\text{Probability} = \frac{{}^5C_2 \times {}^4C_3}{{}^9C_5} = \frac{40}{126} \quad \dots (ii)$$

Adding equation (i) and (ii)

$$\text{Required probability} = \frac{5}{126} + \frac{40}{126} = \frac{45}{126}$$

$$= \frac{5}{14}$$

S9. Ans.(b)

Sol.

Room 1	Room 2
3B, 4G, 5R	2B, 1G, 3R

$$P(\text{Green Bag to work}) = P\left(\begin{array}{c} \text{Green bag} \\ \text{Room 1} \end{array}\right) \text{ or } P\left(\begin{array}{c} \text{Green bag} \\ \text{Room 2} \end{array}\right) = \frac{1}{2} \times \frac{4}{3+4+5} + \frac{1}{2} \times \frac{1}{2+1+3} = \frac{1}{4}$$

S10. Ans.(c)

Sol.

$$\text{Probability of getting tail on Ist coin} = \frac{1}{5}$$

$$\text{Probability of getting tail on IInd coin} = \frac{7}{20}$$

$$\text{Required probability} = \frac{1}{5} \times \frac{13}{20} + \frac{4}{5} \times \frac{7}{20} + \frac{1}{5} \times \frac{7}{20} = \frac{48}{100} = 48\%$$



S11. Ans. (c)

Sol.

The given pattern is

$$1225 + (4^2 - 4) = 1237$$

$$1237 + (5^2 - 5) = 1257 \text{ not } 1255$$

$$1257 + (6^2 - 6) = 1287$$

$$1287 + (7^2 - 7) = 1329$$

$$1329 + (8^2 - 8) = 1385$$

$$1385 + (9^2 - 9) = 1457$$

$$\text{So, (F)} = 1255 + 12 + 20 + 30 + 42 + 56 = 1415$$

S12. Ans. (a)

Sol.

$$2269 + 2 = 2271$$

$$2271 + 3 = 2274$$

$$2274 + 5 = 2279$$

$$2279 + 7 = 2286$$

$$2286 + 11 = 2297 \text{ not } 2295$$

$$2297+13=2310$$

$$\text{So, (F)}=2295+2+3+5+7+11= 2323$$

S13. Ans. (d)

Sol.

$$121+(3 \times 5)=136$$

$$136+(5 \times 7)=171$$

$$171+(7 \times 9)=234 \text{ not } 236$$

$$234+(9 \times 11)=333$$

$$333+(11 \times 13)=476$$

$$476+(13 \times 15)=671$$

$$671+(15 \times 17)=926$$

$$\text{So, (F)}=236+15+35+63+99+143= 591$$

S14. Ans. (b)

Sol.

$$1135+7=1142$$

$$1142-14=1128$$

$$1128+28=1156 \text{ not } 1149$$

$$1156-56=1100$$

$$1100+112=1212$$

$$1212-224=988$$

$$\text{So, (F)}=1149+7-14+28-56+112= 1226$$

S15. Ans. (c)

Sol.

$$1125+5=1130$$

$$1130+(5 \times 2 - 2) = 1130+8=1138$$

$$1138+(8 \times 2 - 2) = 1138+14=1152$$

$$1152+(14 \times 2 - 2) = 1152+26=1178 \text{ not } 1180$$

$$1178+(26 \times 2 - 2) = 1178+50=1228$$

$$1228+(50 \times 2 - 2) = 1228+98=1326$$

$$\text{So, (F)}=1180+5+8+14+26+50= 1283$$

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