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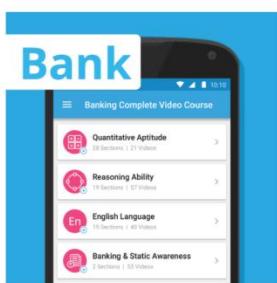
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Q1. A and B entered into a partnership, investing Rs. 10000 and Rs. 15000 respectively. After 4 months, 'A' invested Rs. 5000 more, while B withdraws Rs. 5000. After 4 months more, C joins the business with a capital of Rs. 16,000. After a year, they obtained a profit of Rs. 11830. What is B's share in the profit?

- (a) Rs.6500
- (b) Rs.4550
- (c) Rs.5400
- (d) Rs.3650
- (e) None of these

Q2. A and B can do a piece of work in 30 days and 45 days respectively. They start working together. After working three days A leaves and another person C joins to B. If B and C both finish the rest of work in $\frac{25}{2}$ days then in how many days C can finish the work alone?

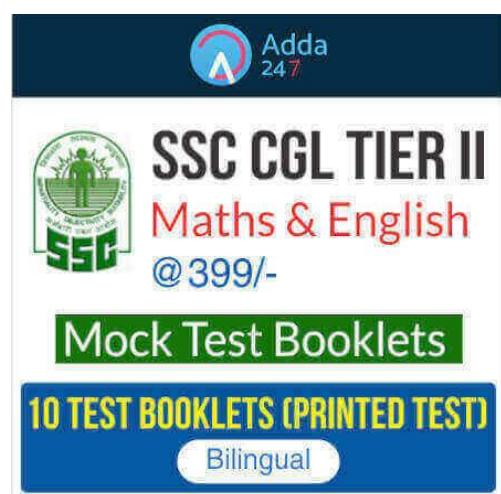
- (a) $23\frac{2}{3}$ days
- (b) $22\frac{1}{2}$ days
- (c) 45 days
- (d) 25 days
- (e) None of these

Q3. Ram invested his money in two schemes A and B in the ratio 3 : 5 for the same time. If schemes A and B offer 15% and 10% interest rates to Ram respectively then find after how much time total income of Ram will be Rs 4560 if his capital amount was Rs. 12800?

- (a) 2 years
- (b) 6 years
- (c) 4 years
- (d) 3 years
- (e) None of these

Q4. Ram and Shyam are travelling from point A to B, which are 60 km apart. Travelling at a certain speed Ram takes one hour more than Shyam to reach point B. If Ram doubles his speed he will take 30 minutes less than Shyam to reach point B. At what speed was Ram driving from point A to B?

- (a) 15 kmph
- (b) 35 kmph
- (c) 30 kmph
- (d) 25 kmph
- (e) 20 kmph



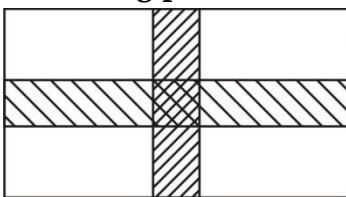
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Q5. There is a rectangular plot whose length is 36 metre and breadth is 28 metre. There are two paths parallel to length and breadth of plot as is shown shaded in the following figure. The remaining part is lawn whose area is 825 square metre. What is the area of paths?



- (a) 183 sq. metre
- (b) 185 sq. metre
- (c) 190 sq. metre
- (d) 163 sq. metre
- (e) None of these

Q6. A jar contains a mixture of two liquids A and B in the ratio 4 : 1. When 10 litres of the mixture is taken out and 10 litres of liquid B is poured into the jar, the ratio becomes 2 : 3. How many litres of liquid A was contained in the jar?

- (a) 14 litres
- (b) 18 litres
- (c) 20 litres
- (d) 16 litres
- (e) None of these



Q7. Several litre of Acid were drawn off a 54-litre vessel full of Acid and an equal amount of water added. Again the same volume of the mixture was drawn off and replaced by water as a result the vessel contained 24 litres of pure acid. How much of the Acid was drawn off initially ?

- (a) 12 liters
- (b) 16 liters
- (c) 18 liters
- (d) 24 litres
- (e) None of these

Q8. A man can complete a piece of work in 2 days. 4 women can complete the same piece of work in 4 days whereas 5 children can complete the same piece of work in 4 days. If 2 men, 4 women and 10 children work together, in how many days can the work be completed ?

- (a) 1 day
- (b) 3 days
- (c) 2 days
- (d) 4 days
- (e) None of these

Q9. Wheels of radius 7 cm and 14 cm start rolling simultaneously from X and Y, which are 1980 cm apart, towards each other in opposite directions. Both of them make same number of revolutions per second. If both of them meet after 10 seconds, the speed of the smaller wheel is

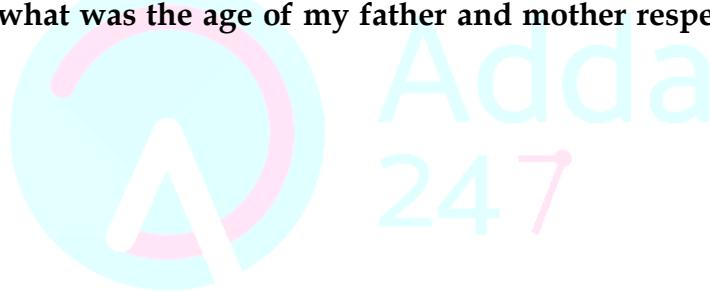
- (a) 22 cm/s
- (b) 44 cm/s
- (c) 66 cm/s
- (d) 132 cm/s
- (e) None of these

Q10. Raman borrowed some money at the rate of 6% p.a. for the first three years, 9% p.a. for the next five years and 13% p.a. for the period beyond eight years. If the total interest paid by him at the end of eleven years is Rs. 8160, how much money did he borrow?

- (a) Rs. 8000
- (b) Rs. 10,000
- (c) Rs. 12,000
- (d) Data inadequate
- (e) None of these

Q11. My brother is 3 years elder to me. My father was 28 years of age when my sister was born while my mother was 26 years of age when I was born. If my sister was 4 years of age when my brother was born, then, what was the age of my father and mother respectively when my brother was born?

- (a) 32 yrs, 23 yrs
- (b) 32 yrs, 29 yrs
- (c) 35 yrs, 29 yrs
- (d) 35 yrs, 33 yrs
- (e) None of these



Q12. The avg. monthly expenditure of a family was Rs. 3400 during the first four months; Rs. 2200 during the next five months and Rs. 4200 during the last three months of a year. If the total savings during the year were Rs. 2800, what was the one eighth of annual income?

- (a) Rs. 7200
- (b) Rs. 7400
- (c) Rs. 7550
- (d) Rs. 7880
- (e) Rs. 5000

Q13. Four examiners examine a certain number of answer papers in 10 days by working for five hours a day. For how many hours in a day would two examiners have to work in order to examine twice the number of answers papers in 20 days?

- (a) 8 hours
- (b) $7\frac{1}{2}$ hours
- (c) 10 hours
- (d) $8\frac{1}{2}$ hours
- (e) None of these

Q14. The strength of a school increases and decreases every alternate year. It starts with increase by 10% and there-after the percentage of increase/decrease is the same. Which of the following is definitely true about the strength of the school in 2001 as compared to that in 1996?

- (a) Increase approximately by 8%
- (b) Decrease approximately by 8%
- (c) Increase approximately by 20%
- (d) Decrease approximately by 20%
- (e) None of these

Q15. A man can row 40 Km upstream and 55 Km downstream in 13 h. Also, he can row 30 km upstream and 44 Km downstream in 10 h. Find the speed of the man in still water.

- (a) 5 Km/h
- (b) 2 Km/h
- (c) 4 Km/h
- (d) 6 Km/h
- (e) 8 Km/h



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Directions (16-20): The following table shows the number of Laptops manufactured by five different companies in six different years. Table also shows the percentage of good and defective laptops. Study the table carefully and answer the questions that follow:

Year	Lenovo (245500)		HP (450500)		Dell (375400)		Sony (225600)		Acer (340500)	
	G (%)	D (%)	G (%)	D (%)	G (%)	D (%)	G (%)	D (%)	G (%)	D (%)
2011	85	15	80	20	75	25	80	20	70	30
2012	76	24	85	15	80	20	83	17	75	25
2013	80	20	86	14	85	15	86	14	80	20
2014	82	18	88	12	90	10	90	10	84	16
2015	88	12	90	10	92	8	93	7	88	12
2016	90	10	95	5	96	4	94	6	90	10

G = Good Laptops

D = Defective Laptops

Q16. What is the total number of good laptops manufactured by the companies Lenovo, HP and Dell together in the year 2011?

- (a) 10,55,000
- (b) 8,50,625
- (c) 6,55,500
- (d) 7,50,000
- (e) None of these

Q17. What is the average number of good laptops manufactured by Sony over last three years together?

- (a) 4,81,455
- (b) 3,08,510
- (c) 2,08,304
- (d) 2,50,000
- (e) None of these

Q18. The defective laptops manufactured by company Acer in the years 2011 and 2013 together are approximately what percent of total number of defective laptops manufactured by Dell in the same years together?

- (a) 131%
- (b) 130%
- (c) 113%
- (d) 141%
- (e) 154%

Q19. What is the ratio of good laptops manufactured by HP company in 2011 to the number of good laptops manufactured by Lenovo in 2013?

- (a) 463 : 213
- (b) 312 : 463
- (c) 491 : 901
- (d) 901 : 491
- (e) None of these



Q20. What is the difference between total number of goods laptops manufactured in the years 2012 and 2016 together by company Acer and Sony?

- (a) 1,62,513
- (b) 2,62,513
- (c) 3,62,513
- (d) 6,31,521
- (e) None of these

Directions (21-25): In each of these questions, two equations numbered I and II are given. You have to solve both the equation and give answer

- (a) if $x < y$
- (b) if $x \leq y$
- (c) if $x > y$
- (d) if $x \geq y$
- (e) if $x = y$ or the relationship cannot be established

Q21. I. $x^2 + 12x + 36 = 0$

II. $y^2 = 16$

Q22. I. $9x^2 + 3x - 2 = 0$

II. $8y^2 + 6y + 1 = 0$

Q23. I. $2x^2 - 25x + 77 = 0$

II. $2y^2 - 21y + 55 = 0$

Q24. I. $2x^2 + 9x + 7 = 0$

II. $2y^2 + 9y + 10 = 0$

Q25. I. $9x^2 - 33x + 28 = 0$

II. $6y^2 - 25y + 25 = 0$



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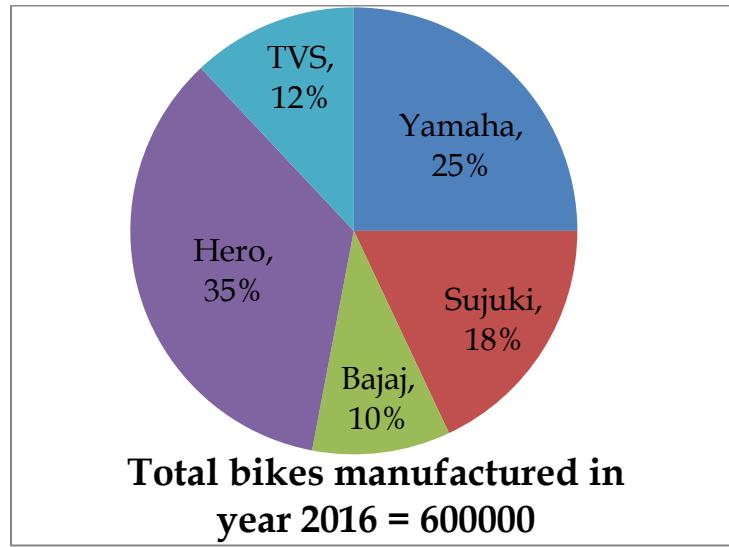
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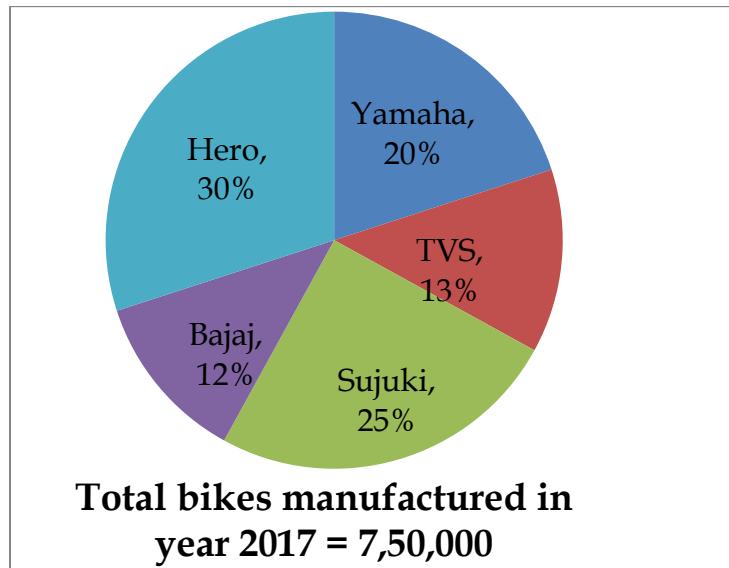
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Directions (26-30): Study the given pie chart, carefully to answer the questions that follows.

Percentage distribution of bikes manufactured in year 2016



Percentage distribution of bikes manufactured in year 2017



Q26. Yamaha bikes manufactured in year 2016 are what percent of the Hero bikes manufactured in the year 2017?

- (a) 73.74%
- (b) 66.67%
- (c) 54.35%
- (d) 81%
- (e) 82.25%

Q27. Find the difference between total bikes manufactured in year 2016 of Sujuki and TVS companies together and total bikes manufactured in year 2017 of the same companies together.

- (a) 2.5 lakhs
- (b) 2 lakhs
- (c) 1.05 lakhs
- (d) 4.5 lakhs
- (e) None of these

Q28. What is the ratio of total bikes of company Bajaj manufactured in year 2017 to that of the total bikes of same company in year 2016?

- (a) 3 : 2
- (b) 2 : 3
- (c) 5 : 2
- (d) 9 : 5
- (e) None of these



Q29. The total manufacturing of bikes of companies Hero, Sujuki and Bajaj in year 2016 is what percent more or less than the total manufacturing of bikes of the same companies in the year 2017? (approximately)

- (a) 20%
- (b) 16%
- (c) 25%
- (d) 30%
- (e) 44%

Q30. The total bikes of company TVS manufactured in 2017 are what percent of total bikes of same company in year 2016 ? (approximately)

- (a) 135%
- (b) 145%
- (c) 155%
- (d) 165%
- (e) 125%

Directions (Q.31-35): What approximate value should come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

Q31. $25.05\% \text{ of } 2801.01 + 14.98 \times 2400 = ?$

- (a) 36,700
- (b) 36,500
- (c) 35,800
- (d) 35,600
- (e) 36,200

Q32. $1079.24 \div 36 + 187 \times 20.05 = ?$

- (a) 3650
- (b) 3770
- (c) 3850
- (d) 3800
- (e) 3700

Q33. $125\% \text{ of } 4875.97 + 88.005 \times 14.995 = ?$

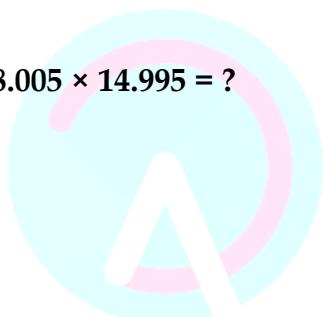
- (a) 7395
- (b) 7490
- (c) 7510
- (d) 7375
- (e) 7415

Q34. $158.004 \times 4.06 + 20.12\% \text{ of } 849.86 + ? = 951.93$

- (a) 350
- (b) 480
- (c) 280
- (d) 250
- (e) 150

Q35. $(36.01)^3 \times (4096)^{\frac{1}{2}} \times (37.99)^2 \div (9^3 \times 75.98^2) = 4^?$

- (a) 7
- (b) 3
- (c) 5
- (d) 8
- (e) 7



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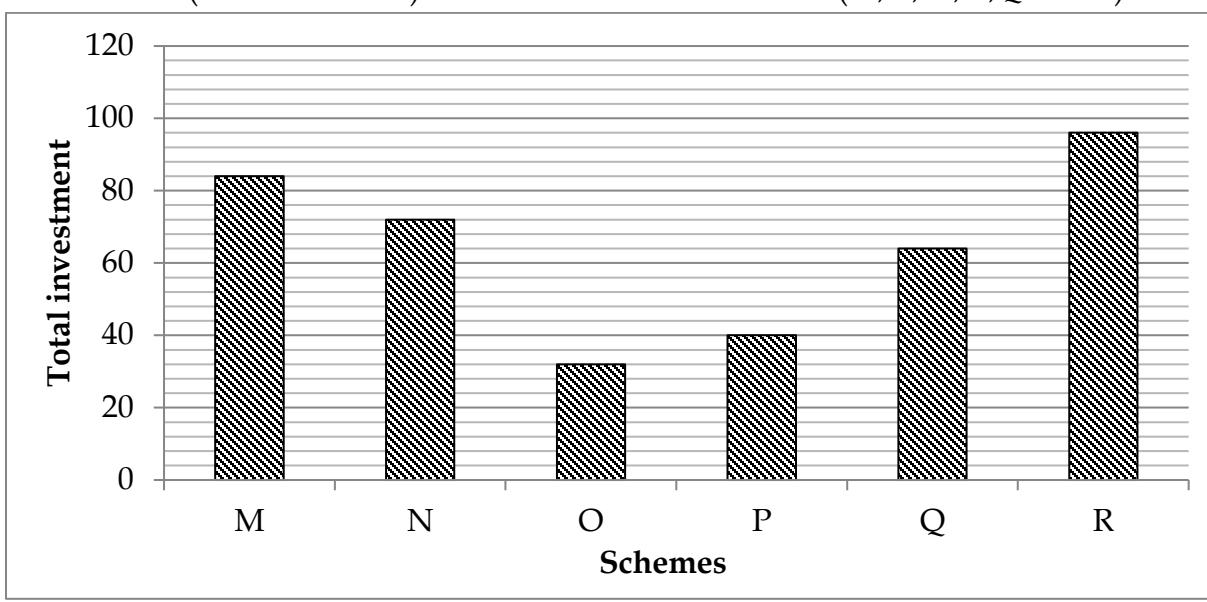
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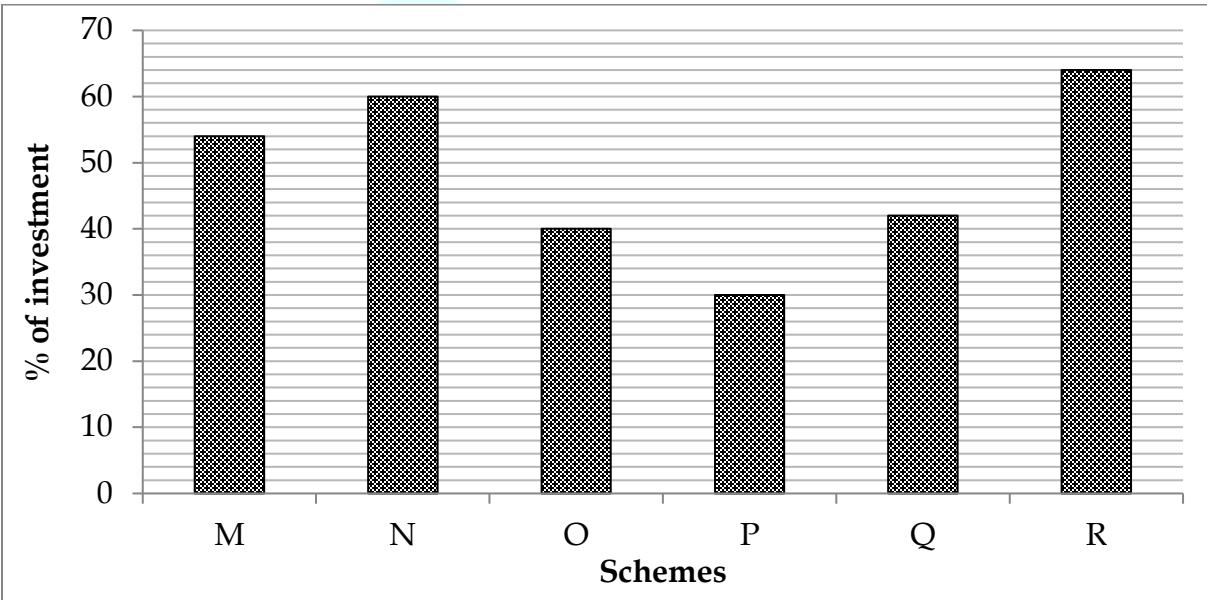
English Medium

Direction (36-40): Study the graph to answer the questions.

Total investment (in Rs.thousand) of Gaurav and Rishabh in 6 schemes (M,N,O,P,Q and R)investment



Percentage of Gaurav's investment out of total Gaurav Investment



Q36. Scheme M offers simple interest at a certain rate of interest (per cent per annum). If the difference between the interest earned by Gaurav and Rishabh from scheme M after 4 yr is Rs. 4435.20, what is the rate of interest (per cent per annum)?

- (a) 17.5
- (b) 18
- (c) 16.5
- (d) 20
- (e) 15

Q37. What is the respective ratio between total amount invested by Gaurav in schemes O and Q together and total amount invested by Rishabh in the same scheme together?

- (a) 31 : 44
- (b) 31 : 42
- (c) 27 : 44
- (d) 35 : 48
- (e) 29 : 38

Q38. If scheme O offers compound interest (compounded annually) at 12% per annum, then what is the difference between interest earned by Gaurav and Rishabh from scheme O after 2 yr?

- (a) Rs. 1628.16
- (b) Rs. 1584.38
- (c) Rs. 1672.74
- (d) Rs. 1536.58
- (e) Rs. 1722.96

Q39. Rishabh invested in scheme R for 4 yr. If scheme R offers simple interest at 7% per annum for the first two years and then compound interest at 10% per annum (compound annually) for the 3rd and 4th year, then what will be the interest earned by Rishabh after 4 yr?

- (a) Rs. 13548.64
- (b) Rs. 13112.064
- (c) Rs. 12242.5
- (d) Rs. 12364
- (e) Rs. 11886



Q40. Amount invested by Gaurav in another scheme S is equal to the amount invested by him in scheme N. The rate of interest per annum of schemes S and N are same. The only difference is scheme S offers compound interest (compounded annually), whereas the scheme N offers simple interest. If the difference between the interest earned by Gaurav from both the schemes after 2 yr is Rs. 349.92, then what is the rate of interest?

- (a) 9%
- (b) 5%
- (c) 13%
- (d) 11%
- (e) 7%

Directions 41-45): Find the wrong term in the following number series.

Q41. 28, 66, 128, 224, 348, 518

- (a) 348
- (b) 224
- (c) 66
- (d) 518
- (e) 28

Q42. 12, 22, 63, 246, 1235, 7404

- (a) 246
- (b) 7404
- (c) 12
- (d) 63
- (e) None of these

Q43. 1634, 905, 562, 439, 410, 409

- (a) 439
- (b) 410
- (c) 409
- (d) 1634
- (e) 905

Q44. 5, 25, 129, 780, 5441, 43529

- (a) 5441
- (b) 129
- (c) 25
- (d) 780
- (e) 5

Q45. 16, 40, 100, 250, 630, 1562.5

- (a) 630
- (b) 40
- (c) 16
- (d) 100
- (e) 250



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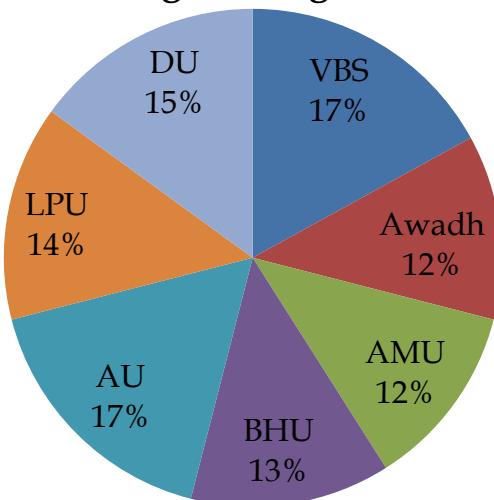
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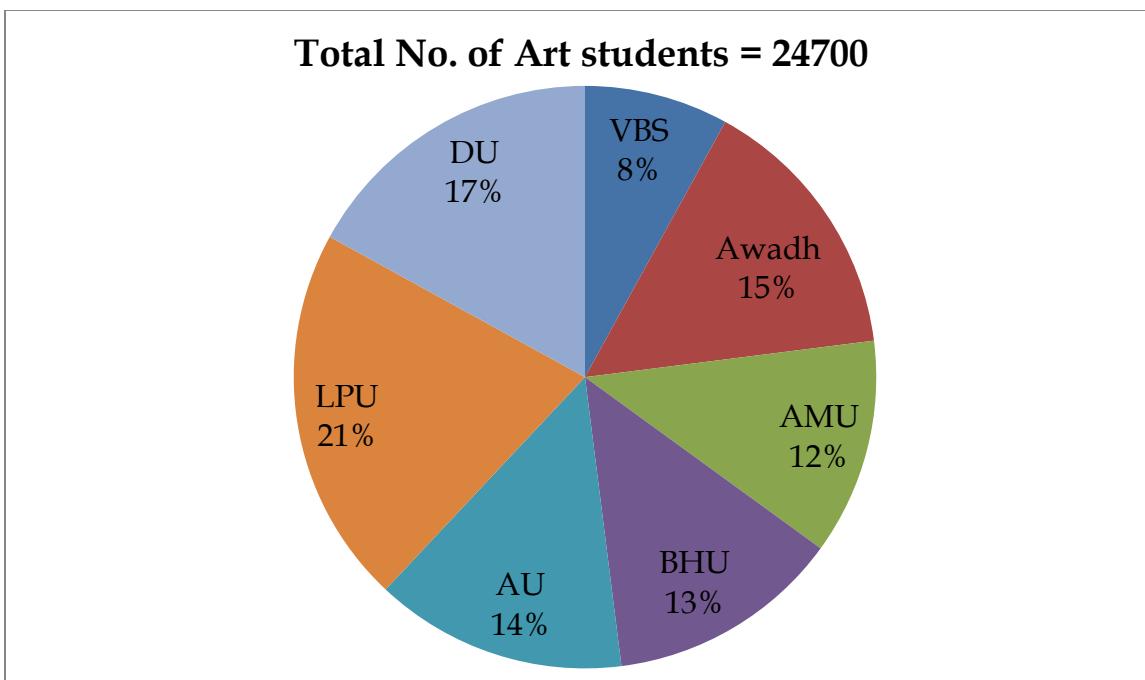


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Directions (46–50): The following pie chart shows the distribution of Students of Engineering and Art students enrolled in seven different universities. Read the following questions and answer it carefully.

Total No of Engineering students = 27300





Q46. What is the total number of students of Engineering and Art from Both AMU and DU.?

- (a) 13824
- (b) 14534
- (c) 12167
- (d) 17576
- (e) None of the above



Q47. What will be the ratio of no. of students from Awadh university of both stream to the no. of students of Art from AU and DU?

- (a) 82 : 85
- (b) 729 : 1089
- (c) 829 : 1043
- (d) 537:589
- (e) None of these

Q48. What will be the difference between the average no of students of Arts from AU ,AMU , Awadh & VBS Universities and average no of students of Engineering from top 5 universities according to no of students enrolled?

- (a) 1050
- (b) 1193
- (c) 1124
- (d) 1089
- (e) 1117

Q49. If one-third of engineering students to be enrolled in LPU changed their mind and joined VBS University instead. What will be the difference between new central angle of both LPU and VBS University now?

- (a) 54.4°
- (b) 44.4°
- (c) 47.6°
- (d) 45.9°
- (e) None of the above

Q50. 75% of engineering students passed in first year while 80% of arts students entered into second year. What is the difference between the no. of failed engineering students and two-third of passed Art students?

- (a) 6348
- (b) 6400
- (c) 6449
- (d) 6198
- (e) 6000



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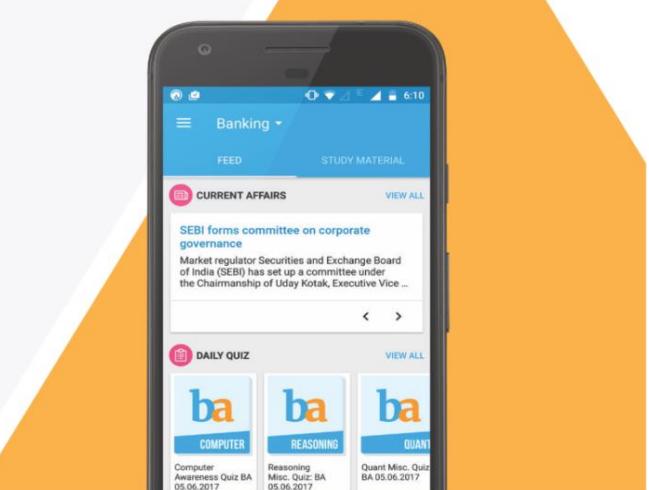




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