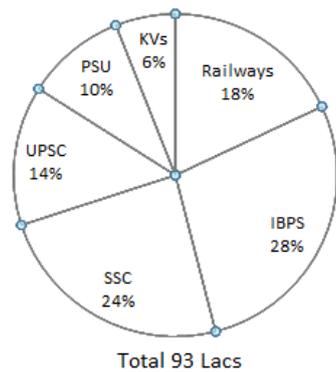


DI syllabus 25 marks

Type of ques	Ques
Pie Chart	5
Multiple charts	5
Caselet	5
Fill in blanks	5
Chart with ratios	5
Total	25

A took a voluntary retirement on February 1st, 2014 and received 10 lakhs as retirement benefits. As on that day he also had Rs 3 lakhs in the bank. Of the total amount he had, 60% was invested in the bank which gives an annual compounded interest of 15%, for three years. Of the remaining part, half was invested in shares, which appreciated by 15% in the first year, 6% in the second year and depreciated by 10% the next year. The remaining part was invested in real estate. The real estate values increased by 10% in the first year, reduced by 10% in the next year and remained steady in the third year.

- What was the value (in rupees lakhs) of A's investment on February 1st, 2015? In lacs
A) 21 B) 14.82 C) 15.36 D) 15.97 E) 31
- What was the approximate value (in rupees lakhs) of his investment on 1st February 2017?
A) 21 B) 14.82 C) 15.36 D) 15.97 E) 17.28
- In which year did the investment show the maximum % inc?
A) First B) Second C) Third D) Both (A) and (C) E. Cannot be det
- Which investment got him overall loss (ie Final < Investment)?
(a) Shares (b) Real Estate (c) Bank (d) A and B (e) A and C
- Find the overall %age increase in Bank investment over the years?
(a) 38% (b) 18% (c) 42% (d) 52% (e) 86%

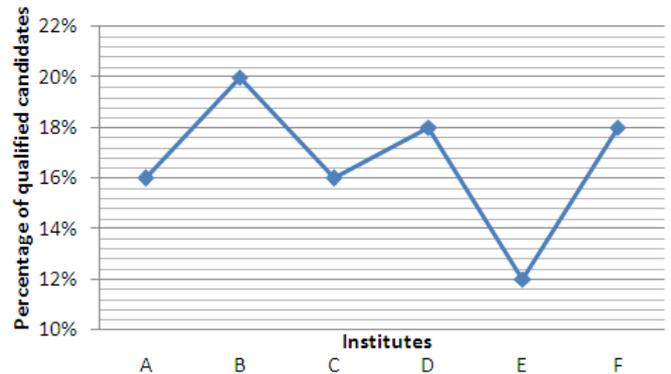


- Average number of aspirants applied for a Govt. exam is approximately how many times the total no. of vacancies?
(a) 39 (b) 32 (c) 35 (d) 38 (e) 41
- If Railways reduces two-fifth of its vacancies, then total vacancies will be reduced by how much percent?
(a) 13.56% (b) 14.56% (c) 18.2% (d) 17% (e) None of these
- What will be the approximate difference between no of aspirant per post in SSC to the no of aspirant per post in IBPS?
(a) 50 (b) 41 (c) 45 (d) 52 (e) 48

9. For each vacancy, 4 will be selected for interview after written exam and one will be finally selected. If no. of vacancies of IBPS increased by 10%. No of aspirant qualified for interview for IBPS is approximately how many times the no of aspirant qualified for interview in PSUs and KVS together.
(a) 3 (b) 3.5 (c) 5 (d) 4.5 (e) 2

10. Out of all vacancies allocated, 15% of the selected aspirants didn't join. Hence 8% of the IBPS and 10% of Railways vacancies remain unfulfilled. What is approximate percent of total vacancies remain unfulfilled for IBPS and Railways to the rest of the organisations vacancy which remain unfulfilled?
(a) 33 (b) 44 (c) 55 (d) 50 (e) 60

Percentage of appeared and qualified candidates in a competitive examination from different institutes. Total Appeared candidates is 36000. Total Qualified candidates = 8000.



Institute	% of appeared candidates
A	12%
B	18%
C	20%
D	15%
E	10%
F	25%

11. What is the ratio of the qualified candidates from institutes A, B and C together to the appeared candidates from institutes D, E and F?
(a) 52 : 225 (b) 26 : 125 (c) 125 : 26 (d) 13 : 200 (e) None of these

Q12. What per cent of the candidates from institute 'E' has been declared qualified out of the total candidates appeared from this institute?
(a) 16% (b) 26% (c) 16.66% (d) 18% (e) None of these

Q13. What is the approximate percentage of students qualified w.r.t. to those appeared from the institutes B and C together?
(a) 20 (b) 21 (c) 22 (d) 23 (e) 24

Q14. Which institute has the highest percentage of candidates qualified w.r.t. to those appeared?
(a) A (b) B (c) C (d) D (e) None of these

Q15. What is the average number of appeared candidates from the institutes A, B and F together?
(a) 19800 (b) 2200 (c) 6600 (d) 8600 (e) None of these

Year	Bank	Shares	Real es	Total
Retirement	7.80	2.60	2.60	13.00
1st Year	8.97	2.99	2.86	14.82
2nd Year	10.32	3.17	2.57	16.06
3rd Year	11.86	2.85	2.57	17.29

A person purchased 5 Gadgets from a shop and sold them online. Given below is the data showing cost price, selling price and profit/loss percentage.

	C.P. (in Rs.)	Profit/Loss%	S.P. (in Rs.)
Smartphone	32445	—	40556.25
Laptop	—	Profit-15%	40940
Tablet	22150	Loss-12%	—
Digital camera	28295	—	31140
Smart Watch	—	Profit-25%	7075

16. Cost price of Laptop is what percent of selling price of Tablet? (approximate)
 (a) 138% (b) 182% (c) 142% (d) 154% (e) 186%

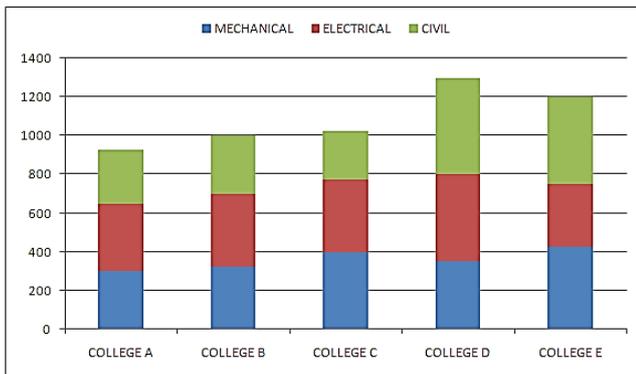
17. If there has been a profit of 12% on Tablet instead of 12% loss. Then the new S.P. is how much more than the original S.P.?
 (a) 5216 (b) 5396 (c) 5336 (d) 5316 (e) None of these

18. Profit percentage on Digital camera is what percent more/less than profit percentage on Laptop?
 (a) 50% more (b) 33.34% less (c) 33.67% more (d) 50% less (e) 150% less

19. What is the ratio between profit percentage of Smart Watch to profit percentage of Smartphone?
 (a) 5 : 3 (b) 3 : 2 (c) 3 : 5 (d) 2 : 5 (e) 1 : 1

20. What is the overall profit/loss percentage? (approximate)
 (a) 22.12% profit (b) 12.12% profit (c) 14.14% profit (d) 33.12% loss (e) 15.15% loss

Number of students enrolled in mechanical, electrical and civil branches of five different colleges in a year.



21. Ratio of number of male to female students in electrical discipline from college B is 16 : 9 and total professors from same college and same branch is 100/9% of total female students from the same branch and same college then, find total number of professor in electrical branch from college B.
 (a) 18 (b) 15 (c) 20 (d) 22 (e) 25

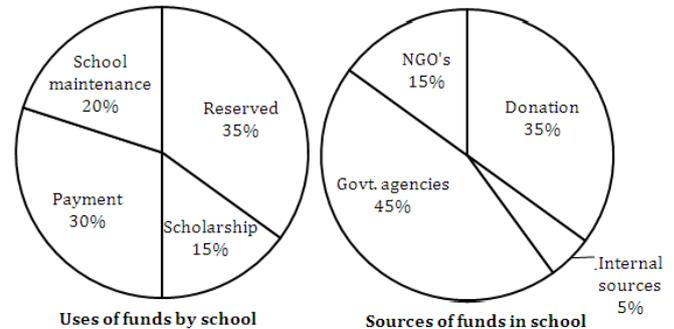
22. If number of male student in civil branch from college D and male students in mechanical branch from college A are equal then what is the percentage of female students in mechanical branch of college A? Given that ratio of male to female students in civil branch from college D is 13 : 12
 (a) 33.3% (b) 16.67% (c) 13.33% (d) 22/7% (e) None of these

23. If 20% of students in civil branch from college E are transferred to civil branch of college C then find the ratio of students in civil from college C to the total students from college E now.
 (a) 34/111 (b) 23/222 (c) 23/111 (d) 34/113 (e) 31/555

24. Average of students in electrical branch from all colleges are that percent less/more than the average students in Civil branch from all colleges together? (Approximately)
 (a) 12% (b) 8% (c) 4% (d) 7% (e) 6%

25. If 20% of total students from College D are failed in yearly exam, 75% of total students are passed from college E in yearly exams then what will be total students in college D and E together in year 2017 if 400 more students are enrolled in 2017 from both colleges D and E together (consider both colleges were opened in 2016 and enrollment is cancelled when a student fails in exam)
 (a) 2340 (b) 2900 (c) 2440 (d) 2800 (e) None of these

Directions (1-5): Study the following pie-charts carefully and answer the questions given below it. The entire fund that school gets from different sources in equal to Rs. 500 lakh



1. What is the difference between the funds acquired by the school from NGO's and internal sources?
 (a) Rs. 50 (b) Rs. 45 (c) Rs. 75 (d) Rs. 25 (e) None of these

2. If the school managed school maintenance from the government agencies fund only, then how much fund from government agencies would still left for other use?
 (a) Rs. 120 (b) Rs. 150 (c) Rs. 110 (d) Rs. 95 (e) None of these

3. If scholarship has to be paid out of the donation fund, then what is the approximate per cent of donation fund used for his purpose?
 (a) 43% (b) 53% (c) 37% (d) 45% (e) 32%

4. What is the total amount used by the school for payment?
 (a) Rs. 100 (b) Rs. 110 (c) Rs. 150 (d) Rs. 140 (e) None of these

5. What amount of the fund is acquired by the school from government agencies?
 (a) Rs. 220 (b) Rs. 310 (c) Rs. 255 (d) Rs. 225 (e) None of these

Study the following pie chart shows the percentage of the total number of aspirants applied for various Govt. examinations in 2016.