PERCENTILE CLASSES
PROBLEMS ON TABLES

Study the following table and answer the questions.

Classification of 100 Students Based on the Marks Obtained by them in Physics and Chemistry in an Examination.

Subject	Marks out of 50				
	40 and above	30 and above	20 and above	10 and above	0 and above
Physics	9	32	80	92	100
Chemistry	4	21	66	81	100
Average (Aggregate)	7	27	73	87	100

Study the following table and answer the questions based on it.

Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

1. What is the average amount of interest per year which the company had to pay during this period?

    A. Rs. 32.43 lakhs

    B. Rs. 33.72 lakhs

    C. Rs. 34.18 lakhs

    D. Rs. 36.66 lakhs

2. The total amount of bonus paid by the company during the given period is approximately what percent of the total amount of salary paid during this period?

    A. 0.1%

    B. 0.5%

    C. 1%

    D. 1.25%

3. Total expenditure on all these items in 1998 was approximately what percent of the total expenditure in 2002?

    A. 62%

    B. 66%

    C. 69%

    D. 71%

4. The total expenditure of the company over these items during the year 2000 is?

    A. Rs. 544.44 lakhs

    B. Rs. 501.11 lakhs

    C. Rs. 446.46 lakhs

    D. Rs. 478.87 lakhs

5. What is the different between the number of students passed with 30 as cut-off marks in Chemistry and those passed with 30 as cut-off marks in aggregate?

    A. 3
    B. 4

    C. 5
    D. 6

6. If at least 60% marks in Physics are required for pursuing higher studies in Physics, how many students will be eligible to pursue higher studies in Physics?

    A. 27
    B. 32

    C. 34
    D. 41

7. The percentage of number of students getting at least 60% marks in Chemistry over those getting at least 40% marks in aggregate, is approximately?

    A. 21%
    B. 27%

    C. 29%
    D. 31%

8. The number of students scoring less than 40% marks in aggregate is?

    A. 13
    B. 19

    C. 20
    D. 27

9. If it is known that at least 23 students were eligible for a Symposium on Chemistry, then the minimum qualifying marks in Chemistry for eligibility to Symposium would lie in the range?

    A. 40-45
    B. 30-40

    C. 20-30
    D. Below 20

The following table gives the sales of batteries manufactured by a company over the years.
Number of Different Types of Batteries Sold by a Company Over the Years (Numbers in Thousands)

Year	Types of Batteries					
	4AH	7AH	32AH	35AH	55AH	Total
1992	75	144	114	102	108	543
1993	90	126	102	84	126	528
1994	96	114	75	105	135	525
1995	105	90	150	90	75	510
1996	90	75	135	75	90	465
1997	105	60	165	45	120	495
1998	115	85	160	100	145	605

10. What was the approximate percentage increase in the sales of 55AH batteries in 1998 compared to that in 1992?

    A. 28%
    B. 31%

    C. 33%
    D. 34%

11. The total sales of all the seven years is the maximum for which battery?

    A. 4AH
    B. 7AH

    C. 32AH
    D. 35AH

12. What is the difference in the number of 35AH batteries sold in 1993 and 1997?

    A. 24000   B. 28000

    C. 35000   D. 39000

13. The percentage of 4AH batteries sold to the total number of batteries sold was maximum in the year?

    A. 1994   B. 1995

    C. 1996   D. 1997

14. In case of which battery there was a continuous decrease in sales from 1992 to 1997?

    A. 4AH   B. 7AH

    C. 32AH   D. 35AH

A school has four sections A, B, C, D of Class IX students.
The results of half yearly and annual examinations are shown in the table given below.

Result	No. of Students			
	Section A	Section B	Section C	Section D
Students failed in both Exams	28	23	17	27
Students failed in half-yearly but passed in Annual Exams	14	12	8	13
Students passed in half-yearly but failed in Annual Exams	6	17	9	15
Students passed in both Exams	64	55	46	76

15. If the number of students passing an examination be considered a criteria for comparision of difficulty level of two examinations, which of the following statements is true in this context?

    A. Half yearly examinations were more difficult.

    B. Annual examinations were more difficult.

    C. Both the examinations had almost the same difficulty level.

    D. The two examinations cannot be compared for difficulty level.

16. How many students are there in Class IX in the school?

    A. 336   B. 189

    C. 335   D. 430

17. Which section has the maximum pass percentage in at least one of the two examinations?

    A. A Section   B. B Section

    C. C Section   D. D Section

18. Which section has the maximum success rate in annual examination?

    A. A Section   B. B Section

    C. C Section   D. D Section

19. Which section has the minimum failure rate in half yearly examination?

A. A section
B. B section
C. C section
D. D section

The following table gives the percentage distribution of population of five states, P, Q, R, S and T on the basis of poverty line and also on the basis of sex.

| State | Percentage of Population below the Poverty Line | Proportion of Males and Females | |
| | | Below Poverty Line | Above Poverty Line |
		M : F	M : F
P	35	5 : 6	6 : 7
Q	25	3 : 5	4 : 5
R	24	1 : 2	2 : 3
S	19	3 : 2	4 : 3
T	15	5 : 3	3 : 2

20. If the male population above poverty line for State R is 1.9 million, then the total population of State R is?

A. 4.5 million
B. 4.85 million
C. 5.35 million
D. 6.25 million

21. What will be the number of females above the poverty line in the State S if it is known that the population of State S is 7 million?

A. 3 million
B. 2.43 million
C. 1.33 million
D. 5.7 million

22. What will be the male population above poverty line for State P if the female population below poverty line for State P is 2.1 million?

A. 2.1 million
B. 2.3 million
C. 2.7 million
D. 3.3 million

23. If the population of males below poverty line for State Q is 2.4 million and that for State T is 6 million, then the total populations of States Q and T are in the ratio?

A. 1:3
B. 2:5
C. 3:7
D. 4:9

Answers Answer 01: Option D   Answer 02: Option C   Answer 03: Option C   Answer 04: Option A
Answer 5: Option D   Answer 6: Option B   Answer 7: Option C   Answer 8: Option D   Answer 9: Option C
Answer 10: Option D   Answer 11: Option C   Answer 12: Option D   Answer 13: Option D
Answer 14: Option B   Answer 15: Option C   Answer 16: Option D   Answer 17: Option D   Answer 18: Option A
Answer 19: Option D.   Answer 20: Option D   Answer 21: Option B   Answer 22: Option D   Answer 23: Option B

NO SUBSTITUTE TO HARDWORK