

**Q1 to 5 are based on the following information(1993):**

A Teacher keeps data on students tabulated by performance and sex of the student. The data is kept on a computer disk, but unfortunately some of it is lost because of a virus. Only the following could be recovered :

	Performance			Total
	Average	Good	Excellent	
Male			10	
Female				32
Total		30		

Panic buttons were pressed but to no avail. An expert committee was formed, which decided that the following facts were

self evident:

Half the students were either excellent or good.

40% of the students were females.

One third of the male students were average.

**Q1.** How many students were both female and excellent?

- (a) 0  
(b) 8  
(c) 16  
(d) 32

**Q2.** How many students are both male and good?

- (a) 10 (b) 16 (c) 22 (d) 48

**Q3.** Among average students, what is the ratio of male to female?

- (a) 1 : 2 (b) 2 : 1 (c) 3 : 2 (d) 2 : 3

**Q4.** What proportion of female students are good?

- (a) 0 (b) 0.25 (c) 0.5 (d) 1.0

**Q5.** What proportion of good students are male?

- (a) 0 (b) 0.73 (c) 0.4 (d) 1.0

**Q6 to Q9 are based on the following table and information given below(1994):**

In 1984 – 85 value of exports of manufactured articles exceeds over the value of exports of raw materials by 100%. In 1985 – 86 the ratio of % of exports of raw material to that of exports of manufactured articles is 3 : 4.

Exports of food in 1985 – 86 exceeds the 1984 – 85 figures by Rs. 1006 crore.

Item	1984-85	1985-86
Food		23%
Manufactured Articles		
Raw Material		
Total Value of Exports in Crore of Rs.	22400	25800

**Q6.** In 1984 – 85 what percentage of total values of exports accounts for items related to food

- (a) 23%  
(b) 29.2%  
(c) 32%  
(d) 22%

**Q7.** During 1984 – 85, how much more raw material than food was exported?

- (a) Rs. 2580 crore  
(b) Rs. 896 crore  
(c) Rs. 1986 crore  
(d) Rs. 1852 crore

**Q8.** Value of exports of raw materials during 84 – 85 was how much percent less than that for 85 – 86?

- (a) 39  
(b) 46.18  
(c) 7  
(d) 31.6

**Q9.** The change in value of exports of manufactured articles from 1984 – 85 to 1985 – 86 is

- (a) 296 crore  
(b) 629 crore  
(c) 2064 crore  
(d) 1792 crore

**DIRECTIONS for Questions 10 to 13 (2004): Answer the questions on the basis of the information given below.**

The Dean’s office recently scanned student results into the central computer system. When their character reading software cannot read something, it leaves that space blank. The scanner output .

reads as follows:

Name	Finance	Marketing	Statistics	Strategy	Operations	GPA
Aparna		B	F			1.4
Bikas	D	D	F	F		
Chandra		D	A	F	F	2.4
Deepak	A	B		D	D	3.2
Fazal	D	F	B		D	2.4
Gowri	C	C	A		B	3.8
Hari		B	A		D	2.8
Ismet			B		A	
Jagdeep	A	A	B		C	3.8
Kunal	F		A	F	F	1.8
Leena	B	A		B	F	3.2
Manab			A	B	B	
Nisha	A	D	B	A	F	3.6
Osman	C		B	B	A	4.6
Preeti	F	D		D		3.2
Rahul	A	C	A		F	4.2
Sameer		C	F	B		
Tara	B					2.4
Utkarsh			F	C	A	3.0
Vipul	A		C	C	F	2.4

In the grading system, A, B, C, D, and F grades fetch 6, 4, 3, 2, and 0 grade points respectively. The Grade Point Average (GPA) is the arithmetic mean of the grade points obtained in the five subjects. For example Nisha’s GPA is  $(6 + 2 + 4 + 6 + 0)/5 = 3.6$

Some additional facts are also known about the students' grades. These are:

- (a) Vipul obtained the same grade in Marketing as Aparna obtained in Finance and Strategy.
- (b) Fazal obtained the same grade in Strategy as Utkarsh did in Marketing.
- (c) Tara received the same grade in exactly three courses.

**Q10.** In Operations, Tara could have received the same grade as \_\_\_\_\_.

- (1) Ismet    (2) Hari
- (3) Jagdeep    (4) Manab

**Q11.** What grade did Preeti obtain in Statistics?

- (1) A    (2) B
- (3) C    (4) D

**Q12.** What grade did Utkarsh obtain in Finance?

- (1) B    (2) C
- (3) D    (4) F

**Q13.** In Strategy, Gowri's grade point was higher than that obtained by \_\_\_\_\_.

- (1) Fazal    (2) Hari
- (3) Nisha    (4) Rahul

**DIRECTIONS for Questions 14 to 17 Answer the following questions based on the information given below (2007) :**

The proportion of male students and the proportion of vegetarian students in a school are given below. The school has a total of 800 students, 80% of whom are in the Secondary Section and rest equally divided between Class 11 and 12

	Male (M)	Vegetarian (V)
Class 12	0.6	
Class 11	0.55	0.5
Secondary Section		0.55
Total	0.475	0.53

**Q14.** What is the percentage of vegetarian students in Class 12?

- (1) 40    (2) 45    (3) 50    (4) 55    (5) 60

**Q15.** In Class 12, twenty five per cent of the vegetarians are male. What is the difference between the number of female vegetarians and male non-vegetarians?

- (1) less than 8    (2) 10    (3) 12    (4) 14    (5) 16

**Q16.** What is the percentage of male students in the secondary section?

- (1) 40    (2) 45    (3) 50    (4) 55    (5) 60

**Q17.** In the Secondary Section, 50% of the students are vegetarian males. Which of the following statements is correct?

- (1) Except vegetarian males, all other groups have same number of students.
- (2) Except non-vegetarian males, all other groups have same number of students.
- (3) Except vegetarian females, all other groups have same number of students.
- (4) Except non-vegetarian females, all other groups have same number of students
- (5) All of the above groups have the same number of students.

**Directions for Questions 18 to 20 Answer the following questions based on the information given below(2008):**

For admission to various affiliated colleges, a university conducts a written test with four different sections, each with a maximum of 50 marks. The following table gives the aggregate as well as the sectional cut-off marks fixed by six different colleges affiliated to the university. A student will get admission only if he/she gets marks greater than or equal to the cut-off marks in each of the section and his/her aggregate marks are at least equal to the aggregate cut-off marks as specified by the college.

	Sectional Cut-off Marks				Aggregate Cut-off Marks
	Section A	Section B	Section C	Section D	
College 1	42	42	42		176
College 2		45	45		175
College 3			46		171
College 4	43			45	178
College 5	45		43		180
College 6		41		44	176

**Q18.** Aditya did not get a call from even a single college. What could be the maximum aggregate marks obtained by him?

- (1) 181    (2) 176    (3) 184    (4) 196    (5) 190

**Q19.** Bhama got calls from all colleges. What could be the minimum aggregate marks obtained by her?

- (1) 180    (2) 181    (3) 196    (4) 176    (5) 184

**Q20.** Charlie got calls from two colleges. What could be the minimum marks obtained by him in a section?

- (1) 0    (2) 21    (3) 25    (4) 35    (5) 41