

UGC-NET

Paper - 1

NATIONAL TESTING AGENCY (NTA)

PAPER – 1 || VOLUME – 3

D.I., ICT, PEOPLE, DEVELOPMENT AND ENVRINMENT & HIGHER EDUCATION SYSTEM



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Unit - 7

Data Interpretation

Most of the questions asked in the DI section are based on the following topics of abrithmetic section—

1) owerage Unleash the topper in you

Sum of values No. of values

2) Ratio

= Comparison of similar terms
in simpler yourn



3) Percentages

- (i) A is what 1. of B
- (ii) A is what 1/2 less than B
- (iii) A is what % more than B

4) percentage change

Difference: Final value - Initial value x100

Types of DI charts -

- 1) Pie Charts (Inp)
- 2) Line Charits
- 3) Table (Inp)
- 4) Mixed Charts
- s) Base Grocaphs



In NTA NET touy to not to do approximation because options are mean about

Tip2

Solve questions in the corder in which they appear. Because it is usually seen that the answer to yirst question is useful in solving the next question

Don't use calculator while practice

Tipy
Interpret the data before you begin
with calculations:

TIPS

Tory to leasin basic tables (1-20) and actal small calculations without pen or paper,



PYQ (Set - 1)

Consider the following table that shows the distribution of students in two sections A and B in a school according to the masks obtained by them. There is a total of 45 students in each section.

Marks Obtained by Students

marks in		
Class Interval	Section A	section B
	2	4
0-9	5	5
20-29	10	9
30-39	4	4
40-49	8	7
50-59	4	5
	7	5
60-69		6
70-79	5	6



Of How many students in section A have obtained 30 or more marks but less than 50?

1) 12

3) 10

2) 14

4) 13

.<u>yol</u>

1

Explaination

30 - 39 = 4 Students

40 - 49 = 8 students

12,

12 If the pass mark is 40, approximately what is the percentage of successful students in section B?

- 1) 48%
- 2) 51 1/2
- 3) 50%
- 4) 47%

Sel 51 %



Enplaination:

93 How many students in Section A and Section B together have obtained marks less than 10?

3) 512

<u>39</u> 4

marks < 10 & 4



Qu If the pass mark is 30, what is the number of failures in both the sections together?

12/2

Section A

Section B

marks < 30 2+5+10

4+5+9

05 How many students in section A and section B have obtained so or more them 50 marco?

Explaination!

Section A

Section B

marks >=50

4+7+5

5+5+6

132



PYQ (Set-2)

Table below shows the percentage wise distribution of no. of laptops sold by a shopkedper during a period of six months from april to sep 2018. A total of 45000 laptops have been sold during these six months.

<u>Table 1</u>
Sale of Laptops Month wise

Name of month	1. of Laptops
lieger	THE GOPPER !
may	22
June	25
July	8
oxugust	12
deptember	16



Table 2 Laptops Board Ratio

Name of Month		Ratio
	H	D
Apoil	8	- Marine
may	4	5
June	3	2
July	7	.5
dugust	7	8
September	731	9

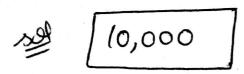
of bound D during may & June together

(1) 9500

(2) 10,000

(3) 10,500

4) 15,000





If 35% of the laptops sold of brand H during suguest were sold at a discound, how many laptops of brand H during that month were sold without a discount?

(1) 882

b) 1635

(3) 1638

(4) 885

₩ 3

Explaination: Total laptops = 45000

sold in august = 12%, of total

100 × 45000

= 5400

Ratio of H; D during august = 7;8

so laptops sold of Brand H =

 $\frac{7}{15} \times 5400 = 2520$

we have to sold laptops sold without discound

So, laptops sold at discount =



$$= \frac{35}{100} \times 2520$$

= 882

So, not sold at discount = Total sold of Brand H - Sold at discount

Q3 what is the ratio of number of laptops sold of brand D during April to these sold during September of same brand?

- (a) 119:145
- (b) 116:135
- (C) 119:135
- (d) 119:130



Explaination:

September

Laptops sold of Brand D =
$$\frac{9}{16} \times \frac{16}{100} \times 45000$$

Ratio =
$$\frac{7}{15} \times \frac{17}{100} \times 45000$$

$$= \frac{17 \times 7}{15 \times 9} = \frac{119}{135}$$



Explaination of Q.1

Total sold in May = $\frac{22}{100} \times 45000$ sold of Brand D in May $\frac{5}{9} \times \frac{22}{100} \times 45000 = 5500$

total sold in June = $\frac{25}{100}$ x 45000

sold of Brand D in June = $\frac{2}{5} \times \frac{25}{100} \times 45000$

Of supees 434 on each laptop of brand D during July, what was his total profit earned on the laptops of that brand during the same month



(2) 6,51,900

(b) 6,46,500

€> 6,49,500

(d) 6,51,000

200 d

Explaination!

sold in July = 8 x 45000

= 3600

Sold of Brand D in July = 5 x 3600

= 1500

Profit earned = 1500 x 434

= [6,51,000]

Do at The number of laptops sold of board H during apoul is approximately what it of the number of laptop sold of board H during september?



Explaination!

$$7650 \times \frac{8}{15} = 4080$$

September =
$$45000 \times 16$$

 $100 = 7200$

$$7200 \times \frac{7}{16} = 3150$$

$$=\frac{4080}{3150} = \boxed{130}$$