

ACHIEVEMENT TEST

Subject - Social Sciences
Class - VIII

Max Marks - 20
Time - 20 mins

General Instructions -

- All the questions are compulsory.
- Marks for each question are indicated against each question.
- Word limit for 1, 3 and 5 marks questions are 20, 60 and 100 respectively.

Section A

Q1. Fill in the blanks -

- England emerged as the strongest naval power in Europe & was called _____.
- The rate at which resources are produced is called _____.

Q2. Give reasons for the following.

- Fossil Fuels are exhaustible resources

Q3. The need for a law prohibiting dowry.

Q4. Distinguish between potential resources and actual resources.

Section B

Q5. What do you mean by Sustainable development? What is the importance and how can we achieve it?

Q6. The history of colonialism in India was under three heads? What are they?

Section C

Q7. Why is the constitution regarded as the supreme law?

Q8. Which are the factors on which productivity depends?

SCORE SHEET

S. No	Name	Marks
1	Kalpana	9
2	Laxmi	19
3	Deepthi	18
4	Akhilesh	17
5	Arav	13
6	Aastha	12
7	Aishwanya	11
8	Amushka	11
9	Amir	16
10	Chhaya	14
11	Chavi	12
12	Jayant	9
13	Karan	8
14	Monika	11
15	Mehal	13
16	Mamta	8
17	Nikhil	3
18	Preeti	17
19	Rahul	17
20	Ritu	11
21	Rohit	11
22	Rohail	11
23	Ronit	6
24	Riya	9
25	Sahil	12
26	Virat	17
27	Manav	17
28	Sonika	17

29.
30.

seema
kanak

13
10

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UPPER STUDENTS MARKS

	Q1.	Q2.	Q3.	Q4.	Q5.	Q6.	Q7.	Q8.	Total
1	✓		✓	✓	✓	✓	✓	✓	19
2	✓			✓		✓	✓	✓	18
3			✓	✓	✓	✓	✓	✓	18
4	✓	✓	✓	✓		✓	✓	✓	17
5	✓	✓	✓	✓	✓	✓	✓	✓	17
6	✓	✓	✓	✓	✓	✓	✓	✓	17
7	✓	✓	✓	✓	✓	✓	✓	✓	17
8	✓	✓	✓	✓	✓	✓	✓	✓	17
9	✓	✓	✓	✓	✓	✓	✓	✓	16

LOWER STUDENTS MARKS

	Q1.	Q2.	Q3.	Q4.	Q5.	Q6.	Q7.	Q8.	Total
22						✓		✓	11
23	✓				✓	✓	✓		10
24	✓					✓			9
25				✓		✓		✓	9
26	✓			✓					9
27	✓		✓	✓				✓	8
28	✓	✓	✓			✓		✓	8
29	✓	✓	✓	✓	✓				6
30	✓	✓	✓					✓	3

Mean

CLASS INTERVAL	(f)	Mid point (M)	Frequency x Mid point (fM)
1-4	1	2.5	2.5
4-7	1	5.5	5.5
7-10	7	8.5	59.5
10-13	10	11.5	115
13-16	3	14.5	43.5
16-19	8	17.5	140
	$N = 30$		$\Sigma fM = 366$

$$\bar{X} = \frac{\Sigma fM}{N} = \frac{366}{30} = 12.2$$

Median

CLASS	FREQUENCY	CUMULATIVE F (f)
1-4	1	1
4-7	1	2
7-10	7	9
10-13	10	19
13-16	3	22
16-19	8	30

$$N = 30$$

$$\frac{N}{2} = \frac{30}{2} = 15$$

$$\text{Median} = \frac{L_1 + \frac{N}{2} - cf}{f} \times i$$

$$= \frac{10 + \frac{15-9}{11} \times 3}{11}$$

$$= 10 + \frac{6}{11} \times 3$$

$$= 11.63$$

$$\text{Mode} = 3 \text{ median} - 2 \text{ mean}$$

$$= 3 \times 11.63 - 2 \times 12.2$$

$$= 34.89 - 24.4$$

$$= 10.49$$

$$\text{Range} = (\text{Maximum score} - \text{Minimum score}) + 1$$

$$= (19 - 3) + 1$$

$$= 16 + 1 = 17$$

Coefficient of Range =

$$\frac{\text{Maximum score} - \text{Minimum score}}{\text{Maximum score} + \text{Minimum score}}$$

$$= \frac{19 - 3}{19 + 3}$$

$$= \frac{16}{22}$$

$$= 0.727$$

Standard Deviation

C.I.	f	d	d ²	fd	fd ²
1-4	1	-3	9	-3	9
4-7	1	-2	4	-4	4
7-10	7	-1	1	-7	7
10-13	10	0	0	0	0
13-16	3	1	1	3	9
16-19	8	2	4	16	32

$$N = 30$$

$$\sum fd = 5 \quad \sum fd^2 = 55$$

$$S.D = i \sqrt{\frac{\sum fd^2}{N} - \left(\frac{\sum fd}{N}\right)^2}$$

$$= 3 \sqrt{\frac{55}{30} - \left(\frac{5}{30}\right)^2}$$

$$= 3 \sqrt{1.83 - (0.166)^2}$$