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6	F	16	I
7	G	17	J
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9	I	19	L
10	J	20	M
21	K	22	N
23	L	24	O
25	M	26	P
27	N	28	Q
29	O	30	R
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33	Q	34	T
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1. The following data are given for a sample of gas. Calculate the work done by the gas during the process.

Initial Pressure = 100 kPa

Final Pressure = 200 kPa

Initial Volume = 0.1 m³

Final Volume = 0.2 m³

Process: Isobaric

Calculate the work done by the gas.

Work done = ?

Answer: 10 kJ

2. A gas expands from 100 kPa and 0.1 m³ to 200 kPa and 0.2 m³ following a polytropic process with $n = 1.4$. Calculate the work done by the gas.

Work done = ?

Answer: 10.5 kJ

3. A gas expands from 100 kPa and 0.1 m³ to 200 kPa and 0.2 m³ following an isothermal process. Calculate the work done by the gas.

Work done = ?

Answer: 10.5 kJ

4. A gas expands from 100 kPa and 0.1 m³ to 200 kPa and 0.2 m³ following an adiabatic process. Calculate the work done by the gas.

Work done = ?

Answer: 10.5 kJ

5. A gas expands from 100 kPa and 0.1 m³ to 200 kPa and 0.2 m³ following a process where $PV = \text{constant}$. Calculate the work done by the gas.

Work done = ?

Answer: 10.5 kJ

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Q. 1. A number is divided by 100. The remainder is 100. What is the number?

(a) 100 (b) 101 (c) 102 (d) 103

Q. 2. A number is divided by 100. The remainder is 100. What is the number?

(a) 100 (b) 101 (c) 102 (d) 103

Q. 3. A number is divided by 100. The remainder is 100. What is the number?

(a) 100 (b) 101 (c) 102 (d) 103

Q. 4. A number is divided by 100. The remainder is 100. What is the number?

(a) 100 (b) 101 (c) 102 (d) 103

Q. 5. A number is divided by 100. The remainder is 100. What is the number?

(a) 100 (b) 101 (c) 102 (d) 103

Q. 6. A number is divided by 100. The remainder is 100. What is the number?

(a) 100 (b) 101 (c) 102 (d) 103

Q. 7. A number is divided by 100. The remainder is 100. What is the number?

(a) 100 (b) 101 (c) 102 (d) 103

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27) B
28) A
29) B
30) A

- 1) A
- 2) B
- 3) C
- 4) C
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- 13) C
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- 15) B
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- 19) C
- 20) C
- 21) C
- 22) C
- 23) C
- 24) C
- 25) C
- 26) C

Chapter 1: Introduction to Chemistry

Sl. No.	Name of the Element	Symbol	Atomic Number
1	Hydrogen	H	1
2	Helium	He	2
3	Lithium	Li	3
4	Beryllium	Be	4
5	Boron	B	5
6	Carbon	C	6
7	Nitrogen	N	7
8	Oxygen	O	8
9	Fluorine	F	9
10	Neon	Ne	10
11	Sodium	Na	11
12	Magnesium	Mg	12
13	Aluminum	Al	13
14	Silicon	Si	14
15	Phosphorus	P	15
16	Sulfur	S	16
17	Chlorine	Cl	17
18	Argon	Ar	18
19	Potassium	K	19
20	Calcium	Ca	20

Prepared by: _____

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June 1997

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1. A	2. A
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2. 19. A

3 E 30 R.

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