

Umumta'lim maktabning 2025-2026 o'quv yili 9-sinf o'quvchilarining fizika fanini o'zlashtirish darajasini aniqlash uchun test, savol, masala va topshiriqlar varianti

# Javoblar + yechim

9- \_\_ sinf o'quvchisi \_\_\_\_\_

F.I.SH.

O'quvchi to'plagan umumiy ball: \_\_\_\_\_ (maksimal ball: 50)

BSB-1

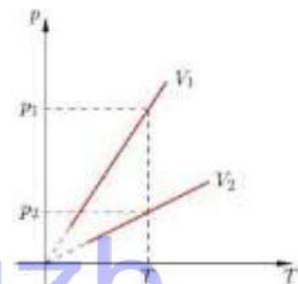
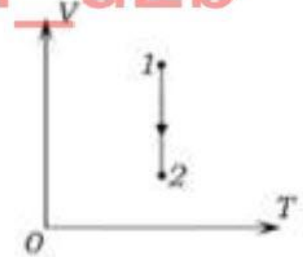
## I. OCHIQ TEST [8]

- a) Mayda erimaydigan zarrachalarning suyuqlik yoki gaz ichida tartibsiz harakati..... deyiladi

- b) Ideal gazning absolyut temperaturasi 3 marta ortganida, molekulalarining o'rtacha kvadratik tezligi necha marta ortadi?

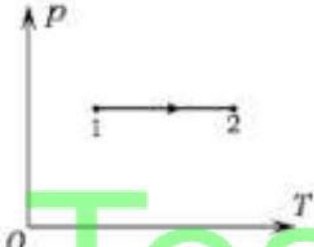
- c) Gaz 1-holatdan 2-holatga rasmda ko'rsatilgandek o'tkazildi. Bu qanday jarayon?

- d) Grafikda bir xil massali ideal gaz uchun ikkita izoxora tasvirlangan. Gaz hajmlar taqqoslab, ular uchun to'g'ri munosabatni yozing.



## II. MOSLASHTIRISH [4]

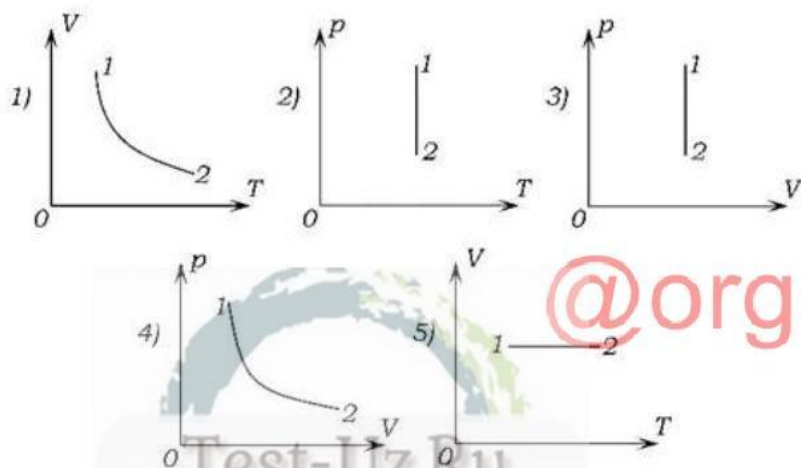
Gaz 1-holatdan 2-holatga rasmda ko'rsatilgandek o'tkazildi(rasmga qarang). Jadvalda berilgan fizik kattaliklarni holat o'zgarishlari bilan moslashtiring.

|  | Fizik kattaliklar |            | Holat o'zgarishlari |             |
|-------------------------------------------------------------------------------------|-------------------|------------|---------------------|-------------|
|                                                                                     | 1                 | Bosim      | K                   | ortadi      |
| 2                                                                                   | a                 | Temperatur | L                   | Kamayadi    |
|                                                                                     |                   |            | M                   | o'zgarmaydi |

| 1 | 2 |
|---|---|
|   |   |

### III. BIR NECHTA JAVOBLI TEST [10]

a) Quyida keltirilgan grafiklarning qaysilari izoxorik jarayonni tasvirlaydi?



b) Izotermik jarayon ifodalangan javobni belgilang.

- 1)  $T = \text{const}$ ;      2)  $V = \text{const}$ ;    3)  $p = \text{const}$ ;    4)  $pV = \text{const}$ ;      5)  $\frac{p}{T} = \text{const}$ .

### IV. MASALA [10]

2,5 mol miqdordagi ideal gaz 300 K harorat va 2 atm bosim ostida qancha hajm ( $l$ ) ni egallaydi?

( $R = 8,31 \text{ J/mol} \cdot \text{K}$ )

**Berilgan:**

## V. TAHLIL QILISH VA XULOSA YOZISH [18]

Farhod 80 ml li shprits va termometr yordamida shprits ichidagi havoni isitib, haroratning ortishi shprits porshenini harakatga kelishiga sabab bo'lishini aniqladi va o'lchov qiymatlarini qayd etdi.

Ma'lumotlar jadvalda keltirilgan:

| Temperatura (°C) | Hajm (ml) |
|------------------|-----------|
| 20               | 50        |
| 40               | 54        |
| 60               | 58        |
| 80               | 62        |



Oz miqdorda  
havosi  
bo'lgan, uchi

Jadvaldagi ma'lumotlarni tahlil qilib, Farhod qanday xulosa qilishi mumkinligi haqida yozing.

a) Havoning hajmi uning temperaturasiga qanday bog'liq?

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b) Buni qanday jarayon deyish mumkin, nima sababdan?

c) Havo hajmining temperaturaga bog'liqlik grafigini chizing.

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