**9 monitoring savollari.**

**1.** Temperatura xalqaro birliklar sistemasida qanday birlikda o’lchanadi ?

A) K B) ̊ C C) J/K D) J

**2.** Ideal gazning absolyut temperaturasi 1,5 marta oshirilsa, uning bosimi necha marta ortadi ?

A) ortmaydi, balki 1,5 marta kamayadi B) 1,52 marta C) 1,5 marta D) 3 marta

**3.** Ideal gaz uchun qaysi fikr noto’g’ri ?

***I.*** *Ideal gazlar molekulalari o’zaro ta’sirlashadi.****II****. Tabiatda mutlaq ideal gaz uchramaydi.* ***III****. Ideal gazlar bir atomli gaz deyiladi.* ***IV****. Ideal gazlar molekulalari o’zaro ta’sirlashmaydi.* ***V****. Ideal gaz molekulalari ham kinetik va ham potensial energiyaga ega.*

A) I, II, III, IV, V B) I, V C) II, III, IV D) III, IV, V

**4.** Gapni to’ldiring:  *“ Tashqi muhit bilan issiqlik almashmaydigan qilib izolyatsiyalangan sistemada ro’y beradigan jarayon ..... deb ataladi.* ”

A) ... izotermik ... B) ... izoxorik ... C) ... izobarik ... D) ...adiabatik ...

**5.** Izotermik jarayon uchun termodinamikaning I – qonuni qanday ko’rinishga ega ?

A) Q=ΔU+A B) Q=0 C) Q=ΔU D) Q=A

**6.** Izobarik jarayonda qaysi kattalik o’zgarmas ?

A) gazning zichligi B) gazning bosimi C) gazning hajmi D) gazning temperaturasi

**7.** Izoxorik jarayon uchun Klapeyron tenglamasi qaysi javobda to’g’ri yozilgan ?

A) P1/P2=T1/T2 B) PV/T=const C) V1/V2=T1/T2 D) P1/P2=V2/V1

**8.** Ideal gazning holat tenglamasi qanday kattaliklar orasidagi bog’lanishni ifodalaydi ?

A) bosim, massa, temperatura B) massa, zichlik, hajm,

C) bosim, hajm, massa, temperatura D) massa va molyar massa

**9.** Moddaning issiqlik sig’imi qanday birlikda o’lchanadi ?

A) J/kg B) J/ K C) J/mol∙K D) J/kg∙K

**10.** Gapni to’ldiring:*“Ixtiyoriy moddaning ichki energiyasi undagi molekulalarning .... iborat.”*

A) ... potensial energiyalari yig’ndisidan ... B) ... kinetik energiyalari yig’ndisidan ...

C)... potensial va kinetik energiyalari yig’ndisidan... D) ... atomlari energiyasidan ...

**11.** 1 kg massali suvni 1 ̊ C ga isitish uchun qanday miqdorda issiqlik sarfalnadi c=4200J/kg\*K?

A) 4200 kJ B) 4200 J C) 2100 J D) aniqlab bo’lmaydi

**12.** 1 J/kg – qanday kattalikning o’lchov birligi ?

A) moddaning issiqlik sig’imi B) moddaning solishtirma issiqlik sig’imi

C) issiqlik miqdori D) yoqilg’ining solishtirma yonish issiqligi

**13.** Qancha toshko’mir yonganda 5 800 000 J issiqlik ajraladi ? Toshko’mir uchun solishtirma yonish issiqligi 2,9∙107 J/kg.

A) 2 kg B) 200 kg C) 20 g D) 200 g

**14.** Gaz molekulalarining tezliklarini kim birinchi bo’lib tajribada o’lchagan ?

A) J. Maksvell B) Klapeyron C) Mendeleyev va Klapeyron D) O. SHtern

**15.** Adiabatik jarayon uchun termodinamikaning I – qonuni qanday ko’rinishga ega ?

A) U1=U2+A B) U2=U1+A C) A=ΔU D) ΔU=U2-U1

**16.** Moddaningsolishtima issiqlik sig’imini aniqlashda qaysi asbobdan foydalaniladi ?\_\_\_\_\_\_\_\_\_

**17.** Termodinamikaning birinchi qonuni formulasini yozing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**18.** Gazlarning universal doimiysiqanchaga teng ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ J/K∙mol

**19.** Gazning temperaturasini o’zgartirmagan holda bosimini 3 marta oshirish uchun hajmini qanday o’zgartirish kerak ? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**20.** 297 K temperaturani ̊ C hisobida ifodalang \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**21.** Gaz hajmining o’zgarishi bilan uning bosimi orasidagi ko’paytma qanday ataladi ?

**22.** Avogadro doimiysibilan Boltsmandoimiysining ko’paytma qanday ataladi. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**23.** 1 kg massali modda temperaturasini 1 K ga oshirish uchun unga beriladigan issiqlik miqdori shu moddaning --------------- deb ataladi.

**24.** 113 ̊ C temperaturani K hiisobida ifodalang \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**25.** k ning qiymatini yozing.