PHYSICS Pressure is kept constant Exchange of heat is zero Volume is kept constant Temperature is kept constant If 42 J heat is transferred to the system during expansion, what is the change The 1st law of thermodynamic is the generalization of the law of conservation of: While studying charging and discharging of a capacitor, Rc = Resistance x Proportionality constant In parallel combination of two capacitors, their equivalent capacitance is equal to:

6. The S.I unit of capacitance of a capacitor is: Coulomb

ochorie process:

D.

B C D

C.

D.

C.

D.

C.

D.

5.

106 J

Energy

Momentum

Time constant

C1C2/C1+C2 2 C1C2 / C1 + C2

Dielectric constant

2.

3.

- B. Volt
- C. Farad
- D. Ampere

7. 1 kWh =

- 0.36 × 10°J A.
- B. 36 × 105 J
- C. 3.6 × 105 J
- 0.036 × 106 J D.

Volt x Ampere is the unit of: 8.

- A. Current
- B Volt
- C. Resistance
- D. Power

If length of the wire becomes two times to its original value and area becomes one half to its original value, than resistance of the wire becomes: Double A.

- Four times B.
- One half C.
- One forth

	44 4 44 101
a charged particle enters the magnetic fi	eld parallel, it will:
a charged particle enters die magnetie	The A. C.
Deflect toward north	
Deflect toward south	
C. Move straight	
D. Move in circular path	
D. Move in circuita paris	
	ama as that of :
. The dimension of magnetic field strength is sa	allio as that of .
Magnetic flux	
B. Magnetic induction	
C. Work done	
D. Magnetic force	
makes to the same and the same	
2. The weber is unit of measure of:	
A. Conductance	
B. Electric current	
C. Magnetic flux	4500
D. Electric flux	
	constion of
13. The lenz's law is also statement of law of con-	Servation of.
A. Charge	
B. Mass	
C. Energy	
D. Pressure	
14. In fleming's right hand rule, the second finger	indicates:
	and the second second
- B. Magnetic field	
C. Induced current	
D. Motion	
in the standard standards	
15. A current generator is a device that converts:	M.
A. Mechanical energy into electrical energy	
B. Chemical energy into mechanical energy	
C. Sound energy into mechanical energy	
D. Electrical energy into mechanical energy	
	•
16. A device that converts AC into DC is called:	
A. Diode	
B. Transistor	
17. The conversion of alternating current into dire	ect current is called:
17. The conversion of alternating current into and	STANDARD TO SERVICE STANDARD AND STANDARD STANDA
A. Amplification	467
Rectification	
C. Magnification	
D. Resolution *	
	unad
18. In full wave rectification, diodes are u	1800.
174. In 12.71 A	*/
B. 2	
B. 2	
A. 1 B. 2 C. 3 D. 4	
D. 4	
All and a second	
14.	
	77-

A Average life B Mean tife c Total life D Half life A 32g radioactive element decays and remains 2g after 60 days. What is half-life A. 2 days B. 6 days C. 10 days D 15 days If the car is slowing down along negative x axis then acceleration will be along: 21. Positive x Axis B. Negative x Axis C. Positive y Axis D. Negative y Axis The instantaneous velocity along the curved path is: Along the tangent A. Perpendicular to the slope B. Parallel to the radius C. Anti-parallel to the radius D. 23. In perfectly elastic collision: Only momentum is conserved A. Only total energy is conserved B. Only kinetic energy is conserved C. Momentum, kinetic energy and total energy, all are conserved D. 24. The slope of a displacement-time graph is equal to: Velocity B. Displacement C. Acceleration D. Distance Range of a projectile on a horizontal plane is same for the following pair of angle: B. 60 & 20 8. 75 & 15 D. 50 & 25 26. The product of force and time is equal to: Angular momentum B. Force Change in momentum C. Velocity D. At what point during the motion of projectile its vertical component of velocity is Point of projection Landing point B. Highest point C. Just before landing 01803 Page 4 of 28

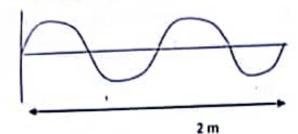
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The time taken for half the number of atoms of radioa

V		oject has 1 J of PE. What is th	ie work done in terms o	f height?
		11		g
		10 J		
	C.	0.3		
v	D.	01J	•	
29.	Pov	wer is dot product of:		
	A.	Force and displacement		
	8.	Force and velocity		
	-			

- Force and time
- D. Work and time
- The area under force-displacement graph gives:
 - Displacement ?
 - B. Power
 - C. Work
 - D. Acceleration
- 31. A body of mass 'm' is moving with velocity 'v'. After a short interval of time its velocity becomes double. How many times its K.E will increase or decrease?
 - 2 time increased
 - B. 2 time decreased
 - C. 4 time increased
 - 4 time decreased
- 32. The relation between radian and degree is:
 - 1 rad = 57.30
 - В. 10 = 57.3 rad
 - C. 1 rad = 10
 - D. 10 = π rad
- 33. In case of centripetal force the value of instantaneous acceleration is given by:
 - Bc = V/r A.
 - B. ac = v2/r
 - C. ac = vr
 - ac = v2 r
- An electric motor turns at 400 revolutions per minute. Its angular velocity in rad/s will be:
 - **20π** A.
 - 30n ·B.
 - 40π C.
 - D.
- A disc, a hoop and a sphere are rolling down from an inclined plane simultaneously. Which object will reach at the bottom first?
 - Hoop A.
 - B. Disc
 - C. Sphere
 - All at the same time

- Fe = mr2w D.
- In the following figure the wavelength is:



- 2m
- 1.5m B.
- C. 1m
- D. 0.5m
- With increase in pressure, the speed of sound will: 38.
 - Increase A.
 - Decrease B.
 - C. First increase then decrease
 - Remain the same D.
- 39. In transverse waves, the portion above the mean level is called:
 - Wave front A.
 - Wave crest B.
 - C. Wave trough
 - Wave length D.
- The maximum displacement of particles of a medium, on either side of the mea position of a wave, is called:
 - Wavelength A.
 - B. Frequency
 - C. **Amplitude**
 - Crest

BIOLOGY

- 41. Na* (sodium lons) are nearly_ times greater in fluid outside the cell th inside:
 - A. 10
 - B. 30
 - C. 2
 - D. 3
- Which hormone induces labour pains?
 - A. Estrogen
 - B. Oxytocin
 - C. Progesterone
 - D. LH
- Hormone secreted in bulk due to decreased water content of blood is: Anti-Diuretic Hormone (ADH)
 - B. Oxytocin
 - C. Glucagon
 - Thyroxin

0180.

1817		of production of neurotransmitters	is: ©	1300
10 30		Postsynaptic neuron		
200	B.	Presynaptic neuron		
16.0	C.	Synaptic cleft		
	D.	Dendrite		
45.	End	forphins are produced in:		
7	A.	Brain		
di la	B.	Adrenal gland		
	C.	Stomach		
	n	Thymus		endary sexual
	The	- barmana arananalbia far menduatia	n of anarm colls and r	nale secondary
46.	cha	e hormone responsible for production	n of sparm com	
	A.	Estrogen		

47. Leydig cells are responsible for:

Progesterone

Testosterone

Thyroxin

- Testosterone production
- **FSH** production B.

B.

C.

D.

- Sperm production C.
- Testosterone inhibition D.

The estrogen hormone secretion during the oogenesis is stimulated by: 48.

- Leutinizing Hormone A.
- Inhibin Hormone B.
- Follicle Stimulating Hormone C.
- Testosterone Hormone

Which of the following hormones of the pituitary gland regulate the menstrual cycle?

- Follicle Stimulating Hormone and estrogen A.
- Luteinizing hormone and estrogen B.
- Follicle Stimulating Hormone and Luteinizing hormone C.
- Estrogen and progesterone D.

Which of the following traits is transmitted directly from an affected father to only his son?

- Autosomal A.
- X-linked B.
- Y-linked C.
- X-Y linked

51. When both the alleles of a gene pair are same, the organism is said to be:

- Heterozygous A.
- Genotype B.
- C. Homozygous
- Phenotype D.

This theory says that "mitochondria and chloroplasts are, in effect, ancient bacteria which now live inside the larger cells"?

- Darwin's theory of evolution A.
- Lamarckism B.
- Neo-darwinism



- organs which are similar in function but differ in structure are catio Analogous organs Homologous organs С Convergent organs D Divergent organs Which may NOT be a mode of action of an antibody? Neutralizing an antigen Precipitating an antigen B C. Secretion of cytokines Enhancing phagocytosis D. Pepsinogen is converted into its active form pepsin by: Proteolytic enzyme action B. Dissolving in mucus C. Hormonal action Hydrochloric acid D. Intrinsic factor is secreted by: A. Pancreas B. Liver C. Stomach D. Duodenum
- The cells which play very important role in developing immunity are:
 - B.
 - Neutrophils
 - C. Lymphocytes
 - Thrombocytes D.
- Digestion of which food component start from oral cavity? 58.

 - В. Fats
 - C. Carbohydrates
 - D. Vitamins
- Vaccination is an example of:
 - Natural passive immunity В,
 - Natural active immunity C.
 - Acquired/Artificial active immunity
 - Acquired/ Artificial passive immunity
- The heart chamber from where aorta originates:

 - Right ventricle
 - Left atrium C, D
 - Right atrium
- Public symphysis and inter vertebral disc are the example of:

 - Cartilaginous joints Gliding joints
- 62.
- Cartilage is more difficult to heal than bone because cartilage:

 - Lacks mineral deposits in matrix
 - C. Has less number of cells deep down Lacks protein in matrix



10	Ch mi	ni(th feature is absent from cardiac muscles?	
		N/	Intercalated disc	
N	o de	8.	Multinucleate cells	100
8	66	C.	Light and dark bands	•
		Ď.	Contractile sarcomeres	
8			Sommene sarcomeres	
18	V.,	Care	contamin sotiant	
8	64.	Sair	coplasmic reticulum of muscle fibers is mainly responsible for	
7	•	A.	Calcium storage	
,		B.	Protein synthesis	
		C.	Lipid metabolism	
		D,	Storing cell wastes	
			· Carlot Control of the Control of t	
	65.	The	junction between two neurons is:	
		A.	Impulse	
		B.	Synapse	
		C.	Axon	
		D.	Cleft	
		10 15405	RAMERO	
	66.	Wh	ich hormone is chemically a steroid?	
	1	A.	ADH	
		B.	Thyroxin	
		·· 6.	Cortisone	
	٠.	D.	Insulin	
		-	A CAMERO NA	
	67.	Un	der activity of parathyroid glands causes a drop in blood of:	
	2.5	A.	Mg**	
		B.	Na*	, '
		C.	К'	
		D.	Ca"	
				artilage?
	68	. W	hich of the following protein establishes the matrix of bone & c	armager
		A.	Elastin	-
		В.	Keratin	
		C.	Collagen	
		D.	Histone	
	69	. No	on-competitive inhibitors react with enzymes at:	
		A.	The first of the second second	
		В.		
		C.		
		D.	Regulatory site	
	2.7	2.2	to the best of the following terror set.	
	70		ost enzymes work the best at the following temperature:	*
		Α.		4
		В.		•
		C.		
		D.	20°C	
	-		term of enzyme action, 'maximum temperature' refers to a temp	
	71		term of enzyme action, 'maximum temperature' refers to a tem Enzymes start to denature	perature at which:
		A.	3	72
		B.	Enzymes work best	,
		C.		
		D.	Enzymes are reactivated	

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	011	reduce the enzymes productivity by blocking the	
	A	ering into the active site due to similar shapes: Competitive inhibitors	
	В.	Non-competitive inhibitors	
	C.	Co-enzymes	
	D.	Activators	10000
		0.007377777777	VIGIL
3.	Wh	en light falls on P-700, which event is likely to occur?	.//
	Α	it induces photolysis	100
	B.	Gains Hydrogen	The second second
	C.	Accept electrons	**
	D.	It is oxidised	
4.	Whi	then utilized in the dark reaction of photosynthesis?	0.00
	and	then utilized in the dark reaction of photosynthesis?	of light reaction
	Α.	ATP and NADP	
	B.	ADP and NADP*	
	C.	ADP and NADPM	
	D.	ATP and NADPH	
_			
5.	Wh	ich are the end products of light reactions of photosynthesis?	
	A.	ATP and NADPH	
	B.	ATP and glucose	
	C.	Glucose and NADP	
	D.	ATP and water	
6.	e		
٠.	Syr	othesis of ATP during photosynthesis takes place at the region:	
	^	Stroma stroma	
	B.	Thylakoid	
	C.	Matrix	
	D.	Cisternae	
77.	Th		
••	Δ	Venome venome and infectious virus particle is known as:	
	B.	Genome	
	C.	Virion	
	D.	Capsid	
78.	AII	viruses are:	
- 2	A.	Autotrophs	
	B.		
		Heterotrophs	
	C.	Parasites Predators •	
	υ.	Fredators	
9.		increases the pathogenecity of bacteria;	
	A. B. C.	Capsule Capsule	
	B	Cell wall	
	C	Slime	
	D.	Cell membrane	
	D.	Centilement	
0.	The	smallest known bacteria belong to the genus:	
	A.	Mycoplasma	
	B.	Streptococcus	
	C.	Escherichia	
	D.	Bacillus	
			01803

10 steric veins drain the blood from: Liver Large intestine Stomach Gall bladder Secondary cell wall in plants is present: Outer to primary cell wall In between two primary cell walls В Between the primary cell wall and plasma membrane C. D. Inner to plasma membrane What distinguishes Prokaryotic cell wall from Fungal cell wall? 83. Prokaryotic cell wall contains cellulose Prokaryotic cell wall contains peptidoglycan Prokaryotic cell wall contains cutin C D Prokaryotic cell wall contains silica Pollination is facilitated by: Chloroplast 8 Chromoplast C. Leucoplast D. Amyloplast Tonoplast is the membrane separating: Vacuole and Nucleoplasm B. Cytoplasm and Nucleoplasm C Vacuole and Stroma Vacuole and Cytoplasm D. Each centriole is composed of of Microtubules: Seven Triplets A. B. Eleven Triplets Nine Triplets C. D. Five Triplets The folds of Inner Membrane of mitochondria are called: 87. Cisternae B. Cristae C. Mesosome D Infolds According to the fluid mosaic model of cell membrane, which zone is embedded 88. A. Hydrophobic B. Hydrophilic C. Globular D. Fitamentous

Select the one which is NOT a function of Smooth Endoplasmic Reticulum (SER)? A. Metabolism of lipids

Transmission of impulses B.

Transport of materials C.

Processing of glycoproteins D.

F0810

	plac	e by active and passive transport:	
	A	Lipids	
	В	Corner Proteins	,
	C	Charged pores	
	D	Carbohydrales	00-36-
91.		are spherical sacs, surrounded by a single membrane a	nd contain
	hydr	olytic enzymes:	
	A.	Mitochondria	
	В	Golgi Bodies	
	C.	Lysosomes	
	D.	Chloroplast	
92.	Mos	t abundant organic compound in mammalian cells are:	
7.7	A.	Water	
	B.	Lipids	
	C.	Carbohydrates	
	D.	Proteins	
	~.		of which
93.		rmal stability of organisms in the environment is because racteristic of water?	Of Milicia
	A.	Solvent property	
	B.	Heat capacity	
	C.	Ionization	
	D.	Protection	
0.4		I handa ta Ilaida ara Impartanti	
94.		bonds in lipids are important:	
	A.	As insulating material	
	В	Providing more energy	
	C.	As exoskeleton	
	D.	As cuticle of leaves	
95.	The	ese carbohydrates are sweetest among all carbohydrates:	
	A.	Monosaccharides	
	B.	Disaccharides	
	C.	Oligosaccharides	
	D.	Polysaccharides	
		ENGLISH	
		English for five years.	
96.	<u>'</u> -	Study Study	
	A.		
	B.	Am Studying	
	C.	Have been studying	
	D,	studies	
97.	100	Tasle good	
	A.	Tastes	
	B	1s tasting	
	C.	Has taste	
98.	Un	less wenow, we cannot be on time	
	A.	Start	
	B.		
	6		0100-
	D		01803
		Page 12 of 28	30

33.	Daud	is better than	of the college.
	A	All teachers	
,	В	Any teachers	
	C	All other teach	
	D.		ners
	U,	Any teacher	
10	O. Abi	and the same	
			he traffic laws for smooth and safe flow of traffic.
	A	On	
	B	-With	
	c	Ву	
	O.	To .	
10			"
10	I. Ho	prefers deat	dishonor.
	~	Over	uishoror,
	В	On	
	C.	Upon	
	D	To	
	12		
	- W	nat does the v	word "SURPLUS" mean?
	A B		
			Itical term
	C.	Within reac	
	D.	Salutation	
•	03 14	h-1-1	
	US. W	nat does the v	word "SPILL" mean?
	A. B.	Con	
	Č.		
	D.		
	U.	Spread	
1	04. W	hat does the	word "CURIOUS" mean?
	Α.	Keen	vord "CURIOUS" mean?
	B.	Careful	
	C	Quest	
	D.	Cruel	
	-	0.00,	
1	05. Pi	ck the senten	ce with correct punctuation:
	A	He had one	motto serving humanity.*
	B.	He, had on	e motto, serving humanity.
	C.	He had one	motto; serving humanity.
	D.	the state of the s	motto: serving humanity.
10	06. Ple	k the word w	ith correct spelling:
	A.	Collique	and the second field of the second se
	B.	Colleague	
	C.	Collegue	
	D.	Co-leageu	
	1/4	100	94
1	07. Pic	k the word w	ith correct spelling:
	A.	Acquaintan	
	B.	Equatance	
	C.	Equantence	,
	D.	Equentense	
	9.124	W	

108. Pick the word with correct spelling: A. Prayority B. Priarity C. Prioarity D. Priority

109. Pick the sentence with correct punctuation:

- A. "He did his best that was all anyone could do in any job".
- B. He did his best, that was all anyone could do in any job.
- C. "He did his best: that was all anyone could do in any job".
- D. "He did his best; that was all anyone could do in any job".

110. Pick the correct option:

- A How has the chair leg broken?
- B. How has the leg of the chair broken?
- C. How the leg of the chair has broken?
- D. How the chair's leg is broken?

CHEMISTRY

111. Vapor pressure is Independent of which factor?

- A. Temperature
- B. Intermolecular forces
- C. Density of liquid
- D. Surface area of liquid

112. The boiling point of ether is less as compared to alcohols and phenois due to:

- A. Functional group
- B. Intermolecular forces
- C. Nature of alkyl groups
- D. Isomerism

113. When 2 ice cubes are pressed over each other they unite to form one cube due to:

- A. Dipole dipole attraction
- B. Covalent attraction
- C. Van Der Waal's forces
- D. H bonding

114. Which statement correctly describes the structure of sodium chloride crystal?

- Each sodium ion is surrounded by six chloride ions and each chloride ions surrounded by six sodium ions
- B. The crystal is face centered cubic structure
- Each sodium ion is surrounded by 3 chloride ions and each chloride ion surrounded by 3 sodium ions
- D. Inter molecular forces are present between two oppositely charges ions

115. The greater Lattice energy is shown by:

- A. NaCl
- B. NaBr
- C. Nal
- D. NaF

116. Thermal conductivity of metals is due to:

- A. Layered structure of metals
- B. Freely moving electrons
- C. Loosely held metal atoms

Vibrational movement of metals

	" A.	Better yield	
ï	В.		
4	C.	Lower yield	
	D.	Lower rate	
		Cost decrease	
	118. By	which of the following factors equilibrium state is attained earlier?	
	A	Temperature recions equilibrium state is attained earlier?	
	В.	Pressure	
	C.	Concentration	
	D,	Catalyst	
	119. W	Inn towns and	
	inc	rease to:	
	A.	Double Vill	
	В.	Three times	
	C.	Four times	
	D.	Five times	
	707 TO 1240		
	120. Th	e minimum amount of energy required by the colliding particles for effective	
	CO	llisions is called:	ı
	A	Activation energy	
	В.	and the state of t	ı
	C.	Bond energy	
	D	Hydration energy	
	121. W	nich of the following is not a state function?	
	A	Pressure (P)	
	В.	Work (W)	ı
	C.	Volume (V)	١
	D.	Temperature (T)	
	122. Eq	uation represents which energy change?	
	Α.	fg²*(g) + O² (g) — → MgO(s) Atomization	
	B	Neutralization	
	Č	Lattice energy	
	Ď.	Solution	
		en nitric oxide reacts with oxone, the order of reaction will be:	
	A	2 nd 3 ^{id}	
	B.	14	
	C	· ·	
	U.	Zero	
	124. Dur	ing electrolysis, reduction always occurs at the:	
	A	Anode	
	В.	Cathode	
	C.	SHE	
	D.	Salt bridge	
	125 The	reason of highest electronegativity value of Fluorine is:	
	A.	Complete outermost shell	
	B.	Ability to form negative ion	
	Č.	Existence as diatomic molecule	
	Ď.	Smaller size and higher nuclear charge in the respective period 01803	
	D,		
		Page 15 of 28	

126. Valance shell electron pair repulsion theory explains: Bond Energy B. **Bond Length** Shapes and Bond Energy C. D. Shapes 127. Which of the following has sp3 hybridization? ٨. BF₃ B. C2H4 C. BeCl₂ D. CH₄ 128. The factor which is not affecting bond length is: Pressure of multiple bonds Nature of hybridization present B. Difference in electronegativity between the two bonded atoms C. D. Ionization energies of the two bonded atoms 129. Which of the following substance is malleable and ductile? Sodium chloride Copper sulphate B. C. Mercury D. Aluminum 130. Co-ordination number of Na is: A 10 B. 9 C. 8 D. 12 131. The cracking method used to obtain better quality gasoline is: B. Catalytic C. Steam D. Radiations 132. Homocyclic organic compounds are sub divided into two types namely: Open chain and branched chain B. Aromatic and non-aromatic C. Antiaromatic and antialicyclic D. 133. Acetophenone can be formed by which of the following reaction of benzene? B. Acylation C. Halogenation D Nitration 134. Generic formula of cycloalkane is: CnH2n+2 B. CnHan CnH2n-1 CnCH2n-2

hich of the following reactions differentiates alcohol from pheno!? Lucas test B Halogenations C Nitration D Idoform test 136. The order of reactivity of alcohol when C-O bond breaks is: Tertiary alcohol > secondary alcohol > Primary alcohol B. Secondary alcohol> primary alcohol>tertiary alcohol C. Primary alcohol> secondary alcohol> tertiary alcohol D. Tertiary alcohol> primary alcohol> secondary alcohol 137. C.HanO is the general formula of: Ether A. B. Carboxylic acid C. Ketones D Carbolic acid 138. Catalytic reduction of aldehyde & Ketone forms: Alcohol A. Carboxylic acid B. Alkane C. Aldehyde D. 139. Which of the following reacts with Carboxylic Acid to form Ester? Aldehyde A. Alkyl Halide B. Ketones C. Alcohol D. 140. Hydrolysis of Nitriles produces: Carboxylic acid Aldehydes В Ketones C. Esters D. 141. What is the mass of sulphur in 24.5 g of H2SO4? 32 g A. 24 g B C. 16 g D. 8 q (N₂ + 3H₂ → 2NH₂), how many moles of NH₂ are produced from 2.5 moles of N₂? 142. From the equation 2.5 moles A. 2 moles B. 143. The amount of energy associated with quantum of radiation is directly proportional 5 moles to: Photon A Wavelength B. Frequency 01803 C. Velocity

			r is 2 then total values of magnetic
144.	11 0	alue of azimuthal quantum numbe nber will be:	0= 1 14
	A.	03	0 = 0 .1 2
	B.	05	m=
	C.	07	
	D.	10	
		W.T.	
145.	Tot	al number of directions of f-orbital	s in space are:
	A	05	
	B.	03	
	C.	07	
	D.	06	
	-		Wave Wave
146.	Whi	ich of the following quantum nur	nber is not obtained from Schrodinger Wave
	equ	ation?	
	A.	Principal Quantum Number	
	8.	Spin Quantum Number	
	C.	Azimuthal Quantum Number	
	D.	Magnetic Quantum Number	
		The state of the s	San Line (1977) Specific (Hyperical Ampaign), 1995 (HACO) And Carlos (Haco)
147	The	electronic configuration for dege	nerate orbitals is explained by:
	A.	Aufbau Principle	
	B.	n + I rule	
	C.	Hund's rule	
	D.	Pauli exclusion principle	A A
148	The	e idea that molecules in gases are	in constant movement is called:
140.	A	Kinetic theory of gases	
	B.	Crystal field theory	
	C.	Molecular orbital theory	
	D.	Transition state theory	
		The second secon	
440	The	e SI unit for pressure is:	
145.	Α.	mm of Hg	
	B.	Pascal	
	C.	Bar	
	n	Torr	
	D.	noth temperature and volume of ga	doubled the pressure:
450	10 6	oth temperature and volume of ga	s are doubled, are p
150.	,, ,	Cannot be predicted	pv-
	A.	le reduced to 1/2	
	B.	Remains unchanged	
	C.	Is doubled	
	D.	13 0000	
			i i

NUMS 2023 KEY BY eprepare.org

Q	KEY	Q	KEY	Q	KEY
1	С	51	С	101	D
2	В	52	D	102	Α
3	С	53	Α	103	D
4	В	54	С	104	Α
5	А	55	D	105	D
6	С	56	С	106	В
7	С	57	С	107	Α
8	D	58	С	108	D
9	В	59	В	109	В
10	С	60	Α	110	В
11	В	61	С	111	D
12	С	62	А	112	В
13	С	63	В	113	D
14	С	64	Α	114	А
15	Α	65	В	115	D
16	Α	66	С	116	В
17	В	67	D	117	А
18	В	68	С	118	D
19	D	69	Α	119	А
20	D	70	В	120	А
21	Α	71	A	121	В
22	Α	72	A	122	С
23	D	73	(D)	123	Α
24	Α	74	D	124	В
25	С	75	A	125	D
26	С	76	В	126	D
27	С	17	С	127	D
28	A	78	С	128	D
29	В	79	С	129	D
30	0	80	Α	130	С

31	C	81	В	131	В
32	Α	82	С	132	А
33	В	83	В	133	В
34	С	84	В	134	В
35	С	85	D	135	D
36	С	86	С	136	А
37	С	87	В	137	С
38	D	88	Α	138	Α
39	В	89	D	139	D
40	С	90	С	140	А
41	А	91	С	141	D
42	В	92	D	142	С
43	Α	93	В	143	С
44	В	94	В	144	В
45	А	95	Α	145	С
46	С	96	С	146	В
47	А	97	В	147	С
48	С	98	А	148	А
49	С	99	С	149	В
50	С	100	С	150	С