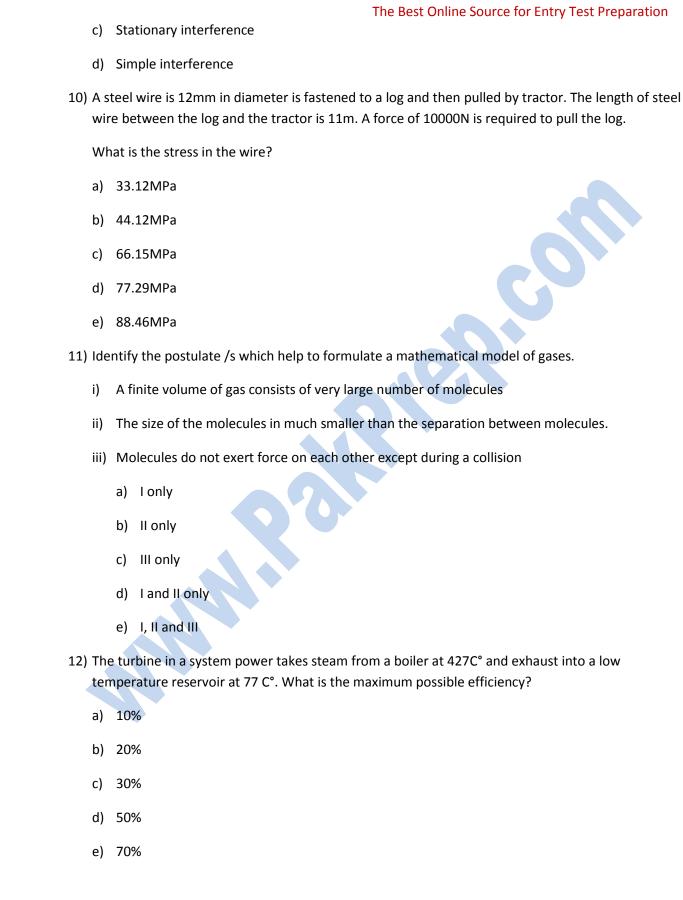


1)	Numbers are expressed in standard form called scientific notation, which employs powers of				
	a)	2			
	b)	8			
	c)	10			
	d)	16			
2)		500kg vehicle has its velocity reduced from 20m/s to 15m/s in 3.0 seconds. How large was the erage retarding force?			
	a)	-0.5N			
	b)	-1.5N			
	c)	-2.0N			
	d)	-3.5N			
3)	An	object moving through a fluid experience a retarding force known as drag force. The drag force as the speed of the object			
	a)	Decreases Decreases			
	b)	Decreases Increases			
	c)	Increases Decreases			
	d)	Increases Increases			
4)		e property of bending of light around obstacles and spreading of light waves into geometrical adow of an obstacle is known as:			
	a)	Diffraction			
4	b)	Interference			
	c)	Polarization			
	d)	Optical rotation			
5)	for	e distance between the slits in young's double slit experiment is 0.25cm. Interference fringes are med on a screen placed at a distance of 100cm from slits. The distance of the third dark fringe m the central bright fringe is 059cm. What is the wavelength of the incident light?			



	a)	390nm
	b)	590nm
	c)	690nm
	d)	790nm
	e)	990nm
6)		e ratio of the angles subtended by the image as seen through the optical device to the subtended the object at the unaided eye is known as:
	a)	Magnifying power
	b)	Angular magnification
	c)	Simple magnification
	d)	Both A and B
7)		ose waves in which the particle of medium have displacement along the direction of propagation waves are known as :
	a)	Longitudinal waves
	b)	Transverse waves
	c)	Simple waves
	d)	Electromagnetic waves
8)		pipe has a length of 1m. determine the frequencies of the fundamental and the first two harmonic the pipe is opened at both end. (speed of sound in air is $=340$ m/s)
	a)	170hz, 340hz, 510hz
	b)	120hz, 220hz, 390hz
	c)	90hz, 230hz, 440hz
	d)	210hz, 410hz, 510hz
9)		point where the displacement of two waves cancel each other's effect. The path difference is odd egral multiple of half of the wavelength. This effect is known as:
	a)	Constructive interference
	b)	Destructive interference

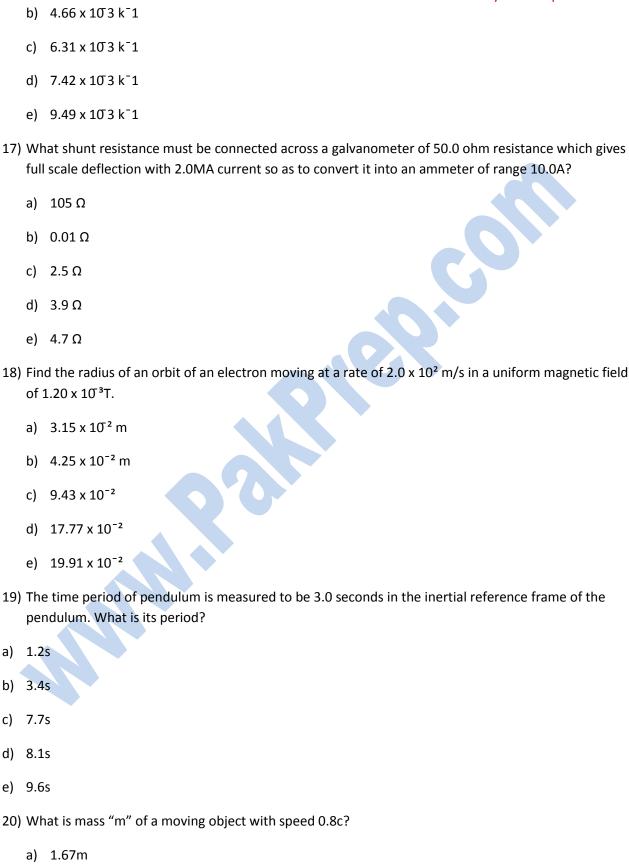




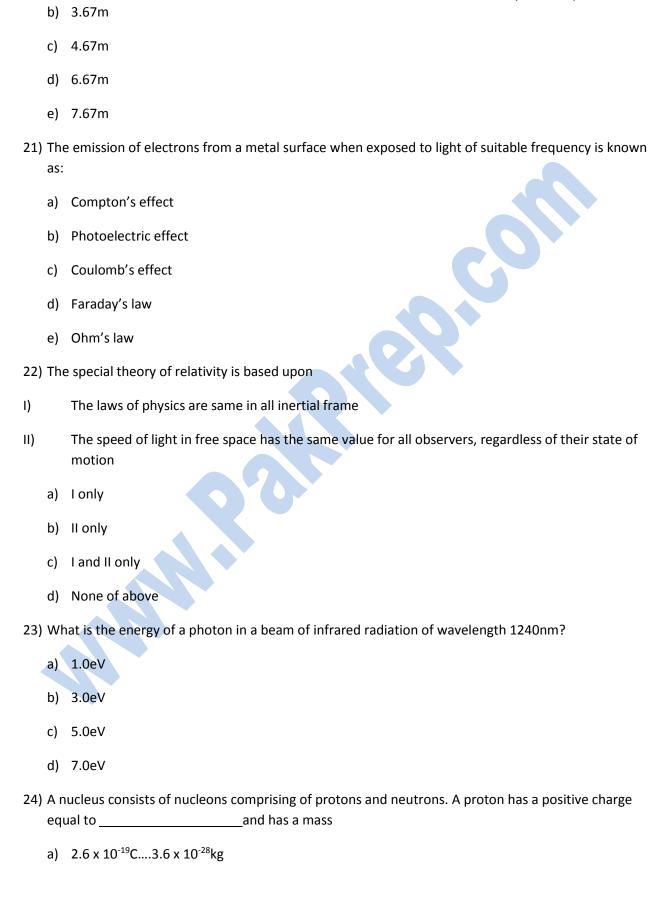


13)	f a process cannot be retracted in the backward direction by reversing the controlling factors. It	
	a) Reversible process	
	o) Irreversible process	
	c) Efficient process	
	d) Entropic process	
14)	A digital system deals with quantities or variables which have only two discrete values or states. dentify examples of such quantities.	
i)	A switch can be either open or closed	
ii)	A bulb can b wither off or on	
iii)	A certain statement can be either true or false	
a)	only	
b)	I only	
c)	and II only	
d)	II only	
e)	, II and III only	
15)	The potential difference between the terminals of battery in open circuit is 2.2v. When it is connected across a resistance of 5.0ohm, the potential falls to 1.8v. What if the current of the pattery?	
	a) 0.36A	
	b) 2.36A	
	c) 3.39A	
	d) 4.49A	
	e) 9.71A	
16)	A platinum wire has resistance of 10ohm at 0c° and 20ohm at 273c°. What is the value of temperature coefficient of resistance of platinum?	
	a) $3.66 \times 10^{3} \text{ k}^{-1}$	











b) Fusion reaction

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	b)	1.6 x 10 ⁻¹⁹ C 1.637 x 10 ⁻²⁷ kg
	c)	3.6 x 10 ⁻¹⁹ C 2.111 x 10 ⁻²⁷ kg
	d)	4.6 x 10 ⁻¹⁹ C 9.111 x 10 ⁻²⁷ kg
	e)	5.6 x 10 ⁻¹⁹ C 8.111 x 10 ⁻²⁷ kg
25)	Ide	ntify the isotope/s of Helium
	a)	³ ₂ He
	b)	⁴ ₂ He
	c)	¹ ₅ He
	d)	³ ₇ He
	e)	Both a and b
26)	The	e half life T of a radioactive element is that period which is of the atoms decay.
		a) Nine times
		b) Double
		c) Half
		d) Four times
		e) Seven times
27)		orescence is the property if absorbing radiant energy of frequency and re-emitting ergy of in the visible region if electromagnetic spectrum.
		a) Low high
		b) High low
		c) Low low
		d) High high
28)		eaction in which a heavy nucleus like that of uranium splits up into two nuclei if roughly equal sizeing with the emission of energy during the reaction is called as:
		a) Fission reaction



C)	Counter reaction
d)	Chemical reaction
29) Identif	y the main type(s) of nuclear reactors
a)	Slow reactors
b)	Fast reactors
c)	Thermal reactors
d)	Both a and b
30) What is	s the average translational kinetic energy of molecules in a gas at temperature?
a)	3.23 x 10 ⁻²¹ J
b)	4.11 x 10 ⁻²¹ J
c)	6.21 x 10 ⁻²¹ J
d)	7.71 x 10 ⁻²¹ J
e)	9.11 x 10 ⁻²¹ J
31) Macroi	molecules are oftypes
a)	Three
b)	Four
c)	Five
d)	Six
e)	Seven
32) The lor	ng chains of amino acids are called
a)	Oils
b)	Polypeptides
c)	Monopeptides
d)	Proteins
33) The ge	neral formula for carbohydrates is



a)	Nn(H₂O)n
b)	Pn(H₂O)n
c)	Cn(H ₂ O)n
d)	Hn(H ₂ O)n
e)	Hn(C₂O)n
34) Lipids a	are generally defined in terms of
a)	Solubility
b)	Structure
c)	Molarity
d)	All of the above
35) As the	result of increased CO ₂ in the atmosphere, oceans will become more
a)	Alkaline
b)	Acidic
c)	Saline
d)	Cooler
strongl radiatio	d lamps are used in restaurants and cafeterias to keep food warm. The infrared radiation is y absorbed by water, raising its temperature and that of the food if wavelength of infrared on is assumed to be 1500mm, then the number of protons per second of infrared radiation is ed by an infrared lamp that consumes energy of the rate of 100 watt and is 12% efficient will be
a)	4×10^{10}
b)	9 x 10 ¹⁹
c)	11 x 10 ¹²
d)	15 x 10 ⁴
37) When I	N_2 is formed from N_2 , bond order and when O_2 is formed from O_2 ,bond order
a)	Increases increases
b)	Decreases decreases



a) $F \rightarrow F$ -

b) $CI \rightarrow CI$ -

c) $0 \rightarrow 0$ -

d) $H \rightarrow H$ -

of the following is true?

a) $T_1 = T_2$

b) $T_1 = 2T_2$

c) $T_1 = 4T_2$

d) $T_2 = 9T_1$

40) An aqueous solution of TI(H₂O) ₆] ³⁺] appears:

41) Amongst the following ions whish has the highest paramagnetism?

a) Greenish yellow in color

Blue in color

Violet in color

d) Purple in color

a) $[Cr(H_2O)_6]^{3+}$

b) $[Fe(H_2O)_6]^{2+}$

c) $[Cu(H_2O)_6]^{2+}$

42)

c) Increases... decreases

d) Decrease... increase

38) The process requiring absorption of energy is

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	d)	d) $[Zn(H_2O)_6]^{2+}$						
F	For A gaseous reaction. $A_2+2B \rightarrow 2AB$, the following rate data are obtained at 250k.							
Rate of disappearance of A ₂ Concern tradition of [A ₂] Concentration of [B]								

39) A solution of 500 ml of 0.2 KOH and 500ml of 0.2M HCl is mixed and stirred; the rise in temperature is T₁. The experiment is repeated using 250ml of each of the solution: the temperature rise is T₂. Which

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-d[A ₂]mole ⁻¹ s ⁻¹ Dt	(Mole I ₁	(mole ⁻¹)
1.2 x 10 ⁻⁵	0.10	0.01
4.8 x 10 ⁻⁵	0.10	0.04
2.4 x 10 ⁻⁵	0.20	0.01

Calculate the rate of formation of AB when $[A_2] = 0.02M$ and [B] = 0.01M at 250K.

- a) $4.8 \times 10^{-5} \text{ mole } |^{1} \text{s}^{-1}$
- b) 4.8 x 10⁻⁶ mole | 1s⁻¹
- c) $5.8 \times 10^{-6} \text{ mole } |^{1}\text{s}^{-1}$
- d) 5.8 x 10⁻⁵ mole | ¹s⁻¹
- 43) $Zn(s) + Cu^{2+}(aq) \rightarrow Cu(s) + Zn^{2+}(aq)$. At 300 K , E_{cell} is 1.12V. what is the entropy change (ΔS) for the above cell reaction?
 - a) 386 JK⁻¹
 - b) 486 JK⁻¹
 - c) 286 JK⁻¹
 - d) 586 JK⁻¹
- 44) Which of the following conditions listed as leaving group and nucleophile respectively would most favour an SN, reaction
 - a) I, Cl
 - b) EtO-, tosylate
 - c) Tosylate, CN
 - d) OH-, H₂O
- 45) If 2-amino 3-methylbutane were treated with excess methyl iodide, silver oxide and water, what would be the major reaction products?
 - a) Ammonia and 2 methyl 2- butane
 - b) Trimethylamine and 3 methyl-1-butane
 - c) Trimethylamine and 2 methyl-2-butane



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- d) Ammonia and 3 methyl 1- butane
- 46) If an amino acid (PH=9.74) in water acidic solution is completely titrated with sodium hydroxide, what will be its charge at PH 3, 7 and 11 respectively?
 - a) Positive, neutral, negative
 - b) Negative, neutral, positive
 - c) Neutral, positive, positive
 - d) Positive, positive, negative
- 47) Amino acids with non-polar R-groups have which of the following characteristics is aqueous solution?
 - a) They are hydrophilic and found buried within the protein
 - b) They are hydrophobic and found buried within the protein
 - c) They are hydrophobic and found on protein surface
 - d) They are hydrophilic and found on protein surface
- 48) Part of periodic table is shown; the letters are not symbol of the elements.

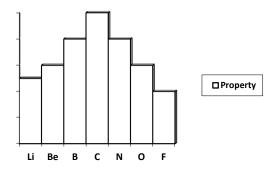
Period	1	II	III	IV	V	VI	VII	0
1			7					
2	V	W					Х	
3	Υ						Z	

Which statement is correct?

- a) V is more relative than Y
- b) W has more metallic character than Y
- c) Y has a lower melting point than V
- d) Z is more reactive then X

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49) The bar chart shows the period of elements from lithium to neon.



Which property of these elements is shown in the chart?

- a) The number of electron is used in bonding
- b) The number of orbits holding electrons
- c) The (protons) electronic number
- d) The relative atomic number
- 50) Alpha helices are secondary structures characterized by
 - a) Intramolecular hydrogen bonds
 - b) Disulphide bonds
 - c) A rippled effect
 - d) Intermolecular hydrogen bonds
- 51) A metal sulphate contains 9.87% of M. This sulphate is isomorphous with $ZnOS_{4,}7H_2O$. Determine the atomic weight of metal M.
 - a) 24.31
 - b) 34.31
 - c) 25.25
 - d) 44.41
 - e) 50.75



a) 100cc

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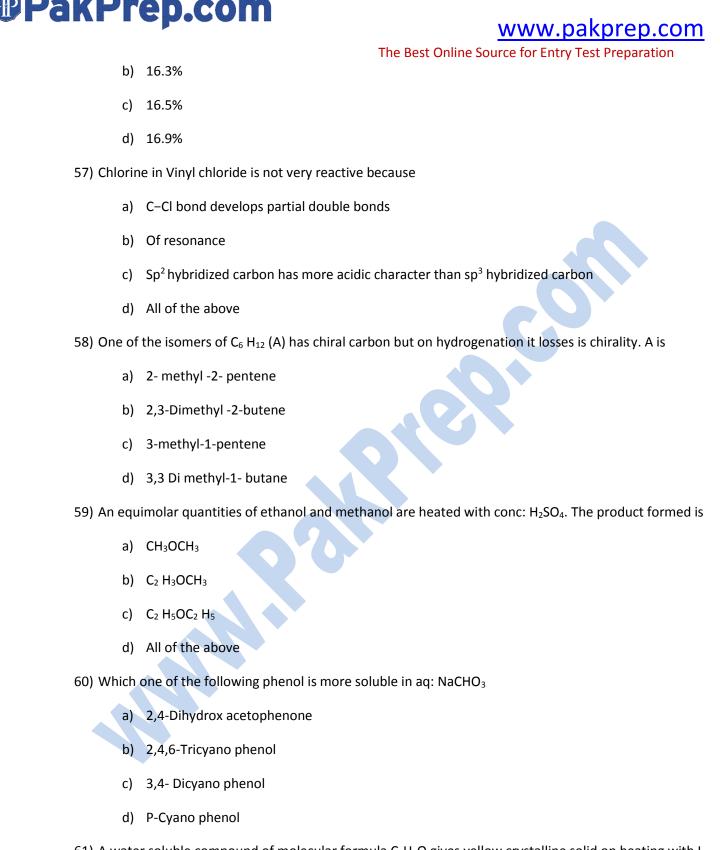
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b) 94.53cc
c) 150cc
d) 90.0cc
53) Y G of non-volatile substance (molecular mass M) is dissolved into 50 G of Benzene. If Kb is the metal elevation constant, the value of T, i∲given by
a) 4M/K _b .Y
b) 4K _b .Y/M
c) K _b .Y/4M
d) K _b .Y/M
54) A mixture of ethanol and propanol has vapour pressure of 290mm at 29°C. If mole fraction of ethanol is 0.65, then what will be its vapour pressure if vapour pressure of pure propanol is 210mm?
a) 333.1mm
b) 441.5mm
c) 890.2mm
d) None of the above
55) At 25°C, the equilibrium constants K_2 in the reactions @NH $_3 \leftrightarrow N_2 + 3H_2$; K_1
$N_2 + H_2 = NH_3$; K_2 are related as
a) $K_1 = K_2$
b) $K_2 = 1 / K_2^2$
c) $K_1 = 1 / K_1^2$
d) $K_2 = 1 / K_1$
56) For the reaction $N_2 + O_2 \leftrightarrow 2NO$, the value of K is 0.0842 at 3500 K. Calculate the fraction of equilibrium mixture of N_2 and O_2 converted into NO .
a) 15.0%

52) 100 cc of oxygen is collected over water at 20°C and 800ml pressure. If vapour pressure of water

vapours at 20°C is 21.00mm, then calculate volume of the Gas NTP.





- 61) A water soluble compound of molecular formula C₃H₆O gives yellow crystalline solid on heating with I and Na₂CO₃, the compound is
 - a) CH₃CH₂ CHO



a) Cytology

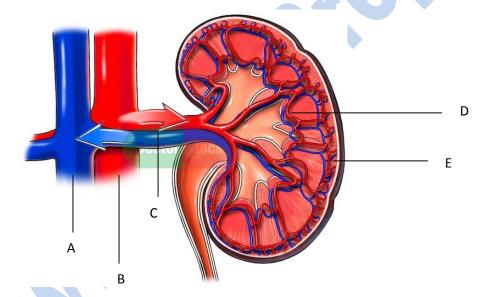
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b)	$CH_2 OCH = CH_2$	The Best Online Source for Entry Test Preparation
c)	CH₃ COCH₃	
•	CH ₂ =CHCH ₂ OH	
62) Arrang		creasing reactivity towards the addition of HCN. tone (III), di-t-butyl ketone (IV)
a)	IV < I < II < III	
b)	< < < V	
c)	IV < III < I < III	
d)	< < V <	
63) The rea	action CH3COOAg + Br ₂ \rightarrow CH ₃ Br + CO ₂ +	· AgBr is known as
a)	Reformatshky reaction	
b)	Hunsdicker reaction	40)
c)	Decarboxylation	
d)	Hell- Vollhard- Zellinsky reaction	
64) Y- buty	vrolactone (ester) does not react with	
a)	NH	
b)	LiAIH ₄	
c)	EtOH, H+	
d)	NaBH ₄ / EtOH	
65) Electric	c cookers have a coating of	_ that protects them against fire.
a)	Heavy lead	
b)	Magnesium oxide	
c)	Zinc oxide	
d)	Sodium sulphate	
66) The div	vision of biology that deals with classifica	tion is



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- b) Histology
- c) Botany
- d) Morphology
- e) Taxonomy
- 67) All the following are organelles EXCEPT the
 - a) Endoplasmic reticulum
 - b) Mitochondria
 - c) Ribosomes
 - d) Golgi complex
 - e) Ultracentrifuge
- 68) The diagram shows sections through a kidney and associated blood vessels



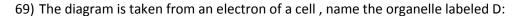
In which area is there the greatest movement of fluid from the blood through the wall of blood vessels?

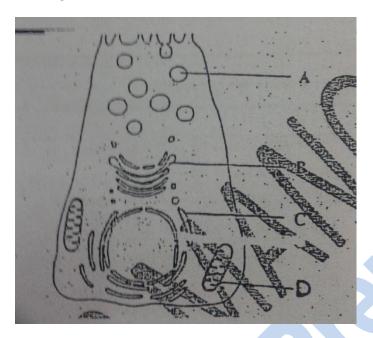
- a) A
- b) B
- c) C
- d) D



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e) E





- a) Nucleus
- b) Lysosomes
- c) Golgi complex
- d) Mitochondria
- e) Endoplasmic reticulum
- 70) Of the following organic compounds, the one that represents a protein is
 - a) C₁₂ H₂₂ O₃₃
 - b) C₆ H₁₂ O₆
 - c) C₁₇ H₁₄ COOH
 - d) $(C_6 H_{12} O_5)_{13}$
 - e) $C_{108} H_{1130} O_{224} N_{180} S_4$
- 71) In which of the following the organic compound is COOH (carboxyl) group found?
 - (I) Carbohydrate
- (III) Protein

(II) Lipid



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a)	I only			
b)	II only			
c)	I and II only			
d)	II and III only			
e)	I , II and III			
		n the same chromosom s over values in betwee	ne. Investigation of a large popula on pair of genes.	tion
P and	R 34%			
P and	Q 59%			
R and	S 12%			
S and (ე 37%		0.3	
Which	of the following seque	ence represents the sec	quence of genes on the chromoso	me?
a)	PRSQ			
b)	PSRQ			
c)	QSPR			
d)	RQSP			
e)	SPRQ			
73) Which	of the following kinds	of atom do not occur i	n carbohydrates?	
a)	Carbon			
b)	Hydrogen			
c)	Nitrogen			
d)	Oxygen			
74) Smoot	h muscle develop from	n		
a)	Endoderm			
b)	Ectoderm			



c)	Mesoderm		
d)	Non of above		
75) Which	cell does not carry out oxidative phospharylation		
a)	Nerve cell		
b)	Cardiac cell		
c)	Red blood cell		
d)	None of above		
76) RNA _	a double stranded molecule		
a)	Is		
b)	Is not		
c)	Is always		
d)	Depending on its location is		
77) In DN	A, guanine forms a base pair withwhile adenine forms a pair with		
a)	Cytosine thmine		
b)	Thymine cytosine		
c)	Uracil guanine		
d)	Guanine uracil		
78) An en:	zyme – substrate is the place where enzyme are		
a)	Formed		
b)	Deactivated		
c)	Active		
d)	Reduced		
e)	Diluted		
79) All viruses			
a)	Carry DNA		



- b) Carry RNA
- c) Lack protein
- d) Have chromosome
- e) Cannot reproduce outside cells
- 80) The correct sequence of stepsin koch's postulate is
 - (I) Injecting the germ, to produce original disease
 - (II) Isolating the same germ in many cases
 - (III) Obtaining the original germ from infected animals
 - (IV) Growing the germ in pure culture
 - a) I IV –II –III
 - b) I –II –III –IV
 - c) II –IV –I –III
 - d) II –I –IV –III
 - e) II –IV –III –I
- 81) The disease caused by bacteria is
 - a) Small pox
 - b) Rabies
 - c) Polio
 - d) The common cold
 - e) Tetanus
- 82) Fungi may be all of the following EXCEPT
 - a) Hetereotrophic
 - b) Autotrophic
 - c) Parasitic
 - d) Saprophytic



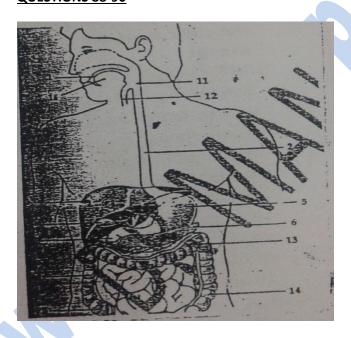
- e) Decomposers
- 83) The octopus, calm and snail are alike in
 - a) Having a backbone
 - b) Having joined legs
 - c) Being classified as mollusks
 - d) Being classified as vertebrates
 - e) Having a three chambered heart
- 84) Which of the following lacks vertebrates?
 - a) The duckbill platypus
 - b) The turtle
 - c) The amphioxus
 - d) The trout
 - e) The rabbit
- 85) The notochord is
 - a) Present in all adult chordates
 - b) Present in all echlonoderms
 - c) Present in chordates during embryological development
 - d) Always a vestigial organ in chordates
- 86) Classification of organization is based on all the following except
 - a) Structure
 - b) Development
 - c) Evolutionary relationship
 - d) Common ancestory
 - e) Size
- 87) Which type of mammalian cell does not carry out oxidative phospharylation?



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- a) Cardiac muscle cells
- b) Liver cells
- c) Neurons
- d) Red blood cells

QUESTIONS 88-90



- 88) At which site does designation of starches begin
 - a) 1
 - b) 2
 - c) 3
 - d) 4
 - e) 5
- 89) Structure 4:



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a)	Produces bile
b)	Stores bile
c)	Secretes bile
d)	Secretes bicarbonate
e)	Secretes HCl
90) Which	structure is primarily responsible for water absorption during digestion
a)	5
b)	6
c)	7
d)	8
e)	9
91) Consid	er the following statements about biological communities
(1)	Their members share a common gene pool
(11)	The community remains stable even through some physical aspect of environment may undergo change
(III)	They possess predictable kinds of species in predictable proportions
(IV)	Interactions between their frequent within the community than between their members and those of neighboring communities
Which	two of all the above statements apply to all stable biological communities?
a)	I and II
b)	II and III
c)	I and III
d)	III and IV
e)	II and IV
92) The dia	agram summarizes the pathway a glucose breakdown
Hexose	



	↓ 1	
	Triose	ohosphate
	↓ 2	
	Pyruva	te
	↓ 3	
	Acetyl	CoA
	↓ 4	
	6C Con	npound
	↓ 5	
	H ₂ O + 0	CO_2
	Which	two steps results in a net increases of ATP.
	a)	1 and 3
	b)	1 and 4
	c)	2 and 4
	d)	2 and 5
	e)	3 and 5
93)		one of the following enables the mammalian kidney to regulate water re-absorption states of dehydration?
	a)	the cells of the tubules detect the osmotic pressure of the blood
	b)	water is extracted from the glomeruler filterate in the proximal tubule
	c)	the kidney produces hyptonic urine
	d)	hormones increase the permeability of the collecting ducts
	e)	a low solute concentration is maintained around the collecting ducts
94)	_	reduces mitochondrial activity in nephrons of kidney. Which chemical will be present in ed amount in the urine?
	a)	Ammonia

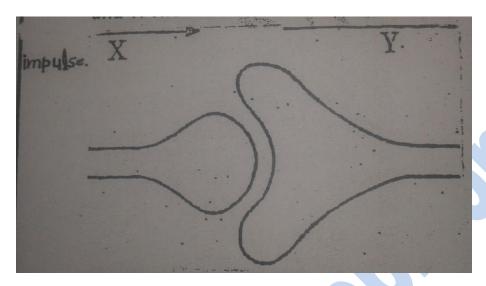


- b) Glucose
- c) Hydrogen bicarbonate
- d) Urea
- 95) Where, in the nephron is most glucose reabsorbed?
 - a) In the ascending loop of henle
 - b) In the descending loop of henle
 - c) In the proximal (first) convoluted tubule
 - d) In the distal (second) convoluted tubule
- 96) The spinal cord serves as the center of
 - a) Sub conscious thought
 - b) Reflex actions
 - c) habits
 - d) tropisms
- 97) The most abundant substance in protoplasm is
 - a) Protein
 - b) Fat
 - c) Carbohydrate
 - d) Water
 - e) Minerals
- 98) The placenta releases all of the following hormones EXCEPT
 - a) Progestrone
 - b) LH
 - c) hCG
 - d) estrogen



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99) The diagram below represents the synapse between two mammalian myelinated neurons, X and Y. the arrows shows the direction of



The transmission of impulses across the synapse is bought about by the:

- a) Breakdown of the terminal membrane of X
- b) Passage of an electric current
- c) Release of sodium ions from X
- d) Buildup of a potential difference between X and Y
- e) Secretion of a chemical from X
- 100) All the following organs produce hormones involved in the reproductive cycle EXCEPT the
 - a) Tests
 - b) Pituitary
 - c) Pancreas
 - d) Ovary
 - e) Uterus
- 101) In human female FSH regulates the concentration of
 - a) Cortisol
 - b) Estrogen



- c) Aldosterone
- d) None of above
- 102) Reduction division occur during the process of
 - a) Cleavage
 - b) Differentiation
 - c) Fertilization
 - d) Meiosis
 - e) Parthenogenises
- 103) The muscles attached to the bones are
 - a) Voluntary and smooth
 - b) Involuntary and smooth
 - c) Voluntary and striated
 - d) Involuntary and striated
 - e) Smooth and striated
- 104) Which of the following statement regarding the periosteum is INCORRECT
 - a) The periosteum serves as the site of attachment of bone to muscle
 - b) Cells of the periosteum differentiate into osteoblasts.
 - c) The periosteum is a fibrous sheath that surrounds long bones
 - d) None of the above
- 105) The most correct statement about muscle contraction is
 - a) Actin moves to shorten the muscle
 - b) Cross bridges connecting the two molecule of myofibril is made up of G –Actin
 - c) Contraction of myosin molecule results in muscle contraction
 - d) K+ is necessary for binding of cross bridges
- 106) The absorption and use of calcium are regulated by



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a)	Paratharmone
b)	Adrenaline
c)	Thyroxin
d)	Thiamin
e)	Prolactin
	ery cold day, a man waits for over an hour at the bus stop. Which of the following as helps his body set and maintain a normal body temperature
a)	Hypothalamus
b)	Kidneys
c)	Heart
d)	Brain stem
108) Which	hormone triggers your body to retain NaCl, especially during periods of excessive heat?
a)	Aldosterone
b)	Progestrone
c)	ACTH
d)	Epinephrine
e)	Testosterone
109) Which	of the following is true regarding passive and active immunity?
a)	Active immunity requires weeks to build, where as passive immunity is acquired immediately
b)	Active immunity is short lived, whereas passive immunity is long lived
c)	Active immunity may be acquired during pregnancy through placenta
d)	Passive immunity may be acquired through vaccination
110) Which	of the following is NOT an example of non –specific defense mechanism?
a)	Skin provides a physical barrier against invasion
b)	Macrophages engulf and destroy foreign particles



- c) An inflammatory response to physical damage
- d) Cytotoxic T cells destroy foreign antigens
- 111) When B –cells are presented with antigen they differentiate into
 - a) T cells
 - b) Helper T cells
 - c) Plasma cells
 - d) Bursa cells
- 112) During which of the following processes is ATP produced?
 - (I) Photosynthesis
 - (II) Aerobic respiration
 - (III) Anaerobic respiration
 - a) I only
 - b) II only
 - c) I and II only
 - d) II only III only
 - e) I, II and III
- 113) Structures that conduct materials throughout a plant are called
 - a) Lenticles
 - b) Meristem
 - c) Fibrovascular bundles
 - d) Cambium
 - e) Epidermis
- 114) Given plants carry on respiration
 - a) Only during the day
 - b) Only at day

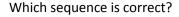


- c) During both day and night
- d) Only when photosynthesis is going on
- e) Only when photosynthesis is not going on
- 115) Photophospharylation during photosynthesis results in the formation of
 - a) ATP
 - b) NAD
 - c) FAD
 - d) ADP
- 116) Which of the following has evolved mainly as a result of artificial selection?
 - a) Darker coloring of prepared moth near industrial areas
 - b) Increased production of antibiotics by the fungus penicilium species
 - c) Increased resistance of houseflies to the insecticide DDT
 - d) Increased resistance of lichens to the heavy metals on tree bark around mine workings
- 117) The technique of DNA fingerprinting has been used to identify people in crime, accidents, and family relationships. In order to analyze the DNA of members of the same family, it is necessary to examine samples of their tissues for
 - a) Similarities in the nucleotide uracil
 - b) Similarities in the deoxyribose sugar
 - c) Similarity in nucleotide base pairs
 - d) Similarities in nucleotide base pairs
 - e) RNA differences
- 118) Five stages in the production of human insulin by genetic engineering techniques are given
 - 1. DNA cut with restriction enzymes
 - 2. DNA copy made using reverse transcriptase
 - 3. Messenger RNA extracted from cells
 - 4. Plasmid RNA joined to donor DNA using ligase enzymes



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5. Recombinant plasmid inserted into bacterial cell



First -----→ Last

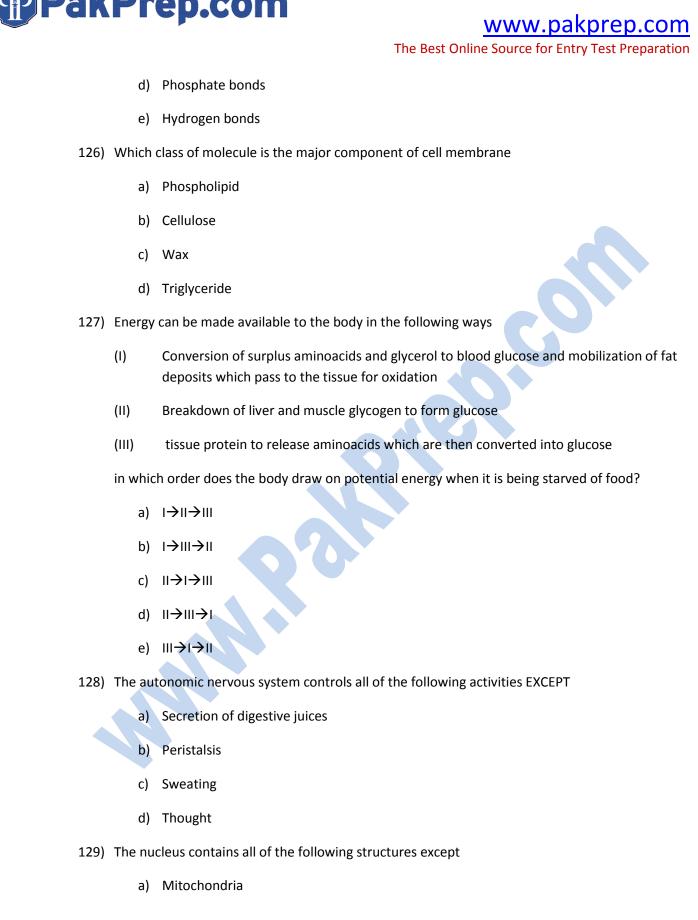
- a) $1 \rightarrow 3 \rightarrow 2 \rightarrow 5 \rightarrow 4$
- b) $1 \rightarrow 3 \rightarrow 4 \rightarrow 2 \rightarrow 5$
- c) $2 \rightarrow 1 \rightarrow 3 \rightarrow 2 \rightarrow 5$
- d) $3 \rightarrow 2 \rightarrow 1 \rightarrow 4 \rightarrow 5$
- 119) All of the following statements about tropical rain forests are true EXCEPT
 - a) They regulate the global climate of entire planet
 - b) Through photosynthesis they give off great quantities of carbon dioxide
 - c) They contribute perhaps 50% of the rainfall in the amazon area
 - d) They contain countless thousands of species of plants and animals
 - e) Their soil is comparatively infertile
- 120) What are edaphic factors in the environment concerned with
 - a) Animals
 - b) The soil
 - c) The climate
 - d) Wave action
 - e) Fire
- 121) A cross in which three fourths of the offspring appear dominant is
 - a) Tt x TT
 - b) TT x tt
 - c) Ttxtt
 - d) Tt xTt
 - e) TT x TT



122)	Of the following the combination of bases that cannot be present in DNA is							
	a)	AUCG						
	b)	ATCG						
	c)	ATTA						
	d)	CGTA						
	e)	GCAT						
123) Plants and animals cells are alike in processing								
	a)	Chlorop	hyll					
	b)	Chlorop	last					
	c)	Cell wal	I					
	d)	Cellulos	e		487			
	e)	Cell me	mbrane					
				es correctly show	vs structures which are found in eukaryotic cell?			
(1	√= prese	ent , x= al	osent)					
			Nuclear membrane	Mitochondria	ribosomes			
		a)	х	x	x			
		b)	X	٧	x			
		c)	٧	Х	x			
		d)	٧	Х	V			
		e)	٧	٧	V			
125) Which one of the following types of bond is principally concerned in maintaining the alpha hel								

- lix shape of secondary protein structure?
 - a) Disulphide bonds
 - b) Peptide bonds
 - c) Ester bonds







- b) Chromatin
- c) Genes
- d) Nucleolus
- e) Nuclear membrane
- 130) Which of the following choices INCORRECTLY pairs a digestive enzyme with its secretion?
 - a) Pancreatic amylase → pancreas
 - b) Aminopeptidase → stomach
 - c) Enterokinease → intestinal glands
 - d) Maltase → intestinal glands