University of Health Sciences, Lahore



Total MCQs: 220 Max. Marks: 1100

ENTRANCE TEST - 2012

For F.Sc. and Non-F.Sc. Students
Time Allowed: 150 minutes

Instructions:

- i. Read the instructions on the MCQs Response Form carefully.
- ii. Choose the Single Best Answer for each question.
- iii. Candidates are strictly prohibited from giving any identification mark except Roll No. & Signature in the specified columns only.

COMPULSORY QUESTION FOR IDENTIFICATION

A) White.

C) Pink.

B) Blue.

D) Green.

Ans: Colour of your Question Paper is Blue. Fill the Circle Corresponding to Letter 'B' against 'ID' in your MCQ response form (Exactly as shown in the diagram).

	A	В	C	D
ID	O			
1	0	0	0	0
2	0	0	O	0
3	0	ŏ	ŏ	Ö
4	0	O	O	O

PHYSICS

Q.1 The diagram shows a small magnet hanging on a thread near the end of a solenoid carrying a steady current 'I':



What happens to the magnet as the iron core is inserted into the solenoid?

- A) It moves towards solenoid and rotates through 180°
- C) It moves away from solenoid

B) It moves towards the solenoid

D) It moves away from solenoid and rotates through 180°

Q.2 A 10 cm long solenoid has 100 turns. What will be the magnetic field inside it along its axis if one micro ampere current is passed through it?

A) $4\pi \times 10^{-13}$ tesla

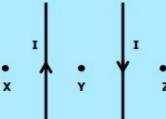
C) 4π x 10⁻¹⁰ tesla

B) 4π x 10-7 tesla

D) 4π x 10-16 tesla

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0.3 Two long straight parallel wires held vertically have equal but opposite currents as shown in the



Which of the following effect will be observed?

- A) Magnetic field at 'X' is stronger than that at 'Y' and 'Z'
- B) Magnetic field at 'X' is weaker than that at 'Y' and 'Z'
- C) Magnetic field at 'X', 'Y' and 'Z' is same
- D) Magnetic field at 'X' is weaker than that at 'Y' but stronger than that at 'Z'.

Q.4	The kinetic energy K.E. with which	h the electron strikes the target is given by:
1000 C	AND AND AND	CIVE PE

A) K.E. = e^2V

C) K.E. $= hf^2$

B) K.E. = hc/λ

D) K.E. = eV

Q.5 LASER is an acronym for:

- A) Light amplification by stimulated emission of radiation
- B) Light annihilation by stimulated emission of radiation
- C) Light amplitude of stimulated emission of radiation
- D) Light amplification by stimulated emission of radio

A) Protons

C) Neutrons

B) Electrons

D) Alpha particles

Q.7 Laser light is monochromatic which means

- A) It consists of one ray of light
- C) It consists of carbon monoxide gas
- B) It consists of one wavelength

D) It consists of photons having 1 eV energy

Q.8 If an electron in the 'K' shell is removed and an electron from 'L' shell jumps to occupy the hole in the 'K' shell, it emits a photon of energy:

A) $hf_{K_{\alpha}} = E_L - E_K$

C) $h/\lambda_{K_{\alpha}} = E_L - E_K$

B) hc = EL - EK

D) $hfk_{\alpha} = E_K - E_L$

Which of the following property must be there in a substance so that it can be used as target in Q.9 X-ray tube?

A) It must have low melting point

- C) It must have high reflecting ability
- B) It must have low atomic number
- D) It must have high atomic number

Which of the following can be used to produce population inversion for the emission of Laser? Q.10

A) Optical pumping

C) Optical instrument

B) Optical fibre

D) Optical polarization

What is the charge on alpha particles emitted during the phenomenon of radioactivity? Q.11

A) +e

C) -2e

B) -e

D) + 2e

A radioactive nuclide decays by emitting an alpha particle, a beta particle and a gamma ray Q.12 photon, the change in the nucleon number will be:

A) -4

C) -2

B) -1

D) -3

Q.13 A half-life of sodium-24 is which is used to estimate the volume of blood in a patient:

A) 6 hours

C) 8 hours

B) 15 hours

D) 15 days

0.14 Which of the following is unit of absorbed dose?

A) Sievert

C) Roentgen

B) Gray

D) Curie

0.15 In a radioactive phenomenon observation shown in figure where a deviates lesser than β in some electric or magnetic field (not shown in figure). What is the reason of less deviation of α ?



 A) α is charged partic
--

C) α is heavier particle

D) α is lighter particle

Q.16 The isotope of Iodine-131 is used in the treatment of

A) Blood cancer

C) Lung tumor

B) Bone cancer

D) Thyroid cancer

Which of the following effect is observed due to emission of \$\bigs_{\text{during}}^{\text{during}}\$ the phenomenon of Q.17 radioactivity?

- A) A increases by 1 and Z remains same
- C) Z decreases by 1 and A remains same
- B) Z increases by 1 and A remains same
- D) A decreases by 1 and Z remains same

Q.18 Electric charge on an object is measured as 5 micro coulombs. How the value of this charge can be expressed in terms of base units:

A) 5 x 100 ampere second

C) 5 x 10+6 coulomb second

B) 5 x 10⁻⁶ ampere second

D) 5 x 100 coulomb second

Q.19 If 'm' is the mass, 'c' is the velocity of light and $x = mc^2$, then dimensions of 'x' will be:

A) [LT⁻¹] B) [ML²T⁻²]

C) [MLT⁻¹]

D) [MLT-2]

Q.20 A force 'F' is acting at point 'P' of a uniform rod capable to rotate about 'O'. What is the torque about 'O'?



- A) (OP)(F tanθ)
- B) (OP)(F)

- C) $(OP)(F \sin \theta)$
- D) (OP)(F cosO)

Q.21 An object of mass 'm' is suspended in an elevator moving downward with acceleration equal to acceleration due to gravity. What is the apparent weight of object?

A) Zero

B) 2mg

Q.22 Stokes' Law for steady motion in a fluid of infinite extent is given by

A) $F = 6\pi\eta rv$

C) $F = 6\pi \eta r^2 \rho$

B) $F = (4/3)\pi r^3 \rho q$

D) $F = 2gr^2\rho/9\eta$

0.23 If speed of efflux through a small hole in a large tank is 9.8 m/s. Find the height at the fluid above the hole

A) 1 m

C) 4.9 m

B) 9.8 m

D) 19.6 m

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- Flow speed of the fluid through a non-uniform pipe increases from 1 m/sec to 3 m/sec. If change 0.24 in P.E. is zero, then pressure difference between two points will be: (density of the fluid = 1000 kg/m^3)
 - A) 1000 N/m²

C) 8000 N/m²

B) 9000 N/m²

- D) 4000 N/m²
- Q.25 Polarization of light exhibited the nature of light as
 - A) Longitudinal wave

C) Transverse wave

B) Compressional wave

- D) Electromagnetic wave
- The concentration of a sugar solution can be determined by Q.26
 - A) Un-polarized light

C) Interference of light

B) Plane polarized light

- D) Diffraction of light
- Q.27 The information from one place to another can be transmitted very safely and easily by:
 - A) Copper wire

C) Photodiode

B) Aluminium wire

- D) Optical fibre
- The image of an object placed inside the focal length of a convex lens will be largest and clearest Q.28 when it is at the
 - A) Less than 25 cm

C) Greater than 25 cm

B) Near point

- D) Infinity
- A simple harmonic oscillator has a time period of 10 seconds. Which equation rotates its Q.29 acceleration 'a' and displacement 'x'?
 - A) a = -2 x

C) $a = -\left(\frac{2\pi}{10}\right)^2 x$

B) $a = -(20\pi)x$

- Q.30 When the length of a simple pendulum is doubled, find the ratio of the new frequency to the old frequency?
 - A) 1/4

B) 1/2

- C) $\sqrt{2}$ D) $1/\sqrt{2}$
- In the diagram below, the displacement of an oscillating particle is plotted against time. What Q.31 does the length 'PR' on the time axis represents?



A) Twice the frequency

C) Half the frequency

B) Half the period

- D) Twice the period
- When the source of sound moves towards the stationary observer, the value of apparent Q.32 frequency 'fo' is:
 - A) $f_o = \left(\frac{v + u_i}{v}\right) f$

C) $f_0 = \left(\frac{V}{V+11}\right) f$

B) $f_0 = \left(\frac{V}{V-H}\right) f$

- D) $f_0 = \left(\frac{v u_i}{v}\right) f$
- Q.33 The ratio of tensile strength to tensile strain is called
 - A) Modulus of elasticity

C) Young's Modulus

B) Bulk Modulus

- D) Shear Modulus
- Q.34 A wire is stretched by a force 'F' which causes an extension ΔI , the energy stored in the wire is:
 - A) FAI

C) ½ FΔI²

B) 2FAI

D) 1/2 FΔI

Q.35 H₂ and O₂ both are at thermal equilibrium at temperature 300 K. Oxygen molecule is 16 times massive than hydrogen. Root mean square speed of hydrogen is

A) 4 root mean square of oxygen

- C) 1/16 root mean square of oxygen
- B) 1/4 root mean square of oxygen
- D) 1/6 root mean square of oxygen

Q.36 Which of the following is expression of mean square speed of 'N' gas molecules contained in a cylinder?

A) $\frac{v_1 + v_2 + ... + v_x}{N}$

C) $\sqrt{\frac{v_1 + v_2 + ... + v_x}{N}}$

B) $\frac{{v_1}^2 + {v_2}^2 + ... + {v_x}^2}{N}$

D) $\sqrt{\frac{v_1^2 + v_2^2 + ... + v_x^2}{N}}$

Q.37 If 'Q' is the amount of heat supplied to a system and 'W' is the work done, then change in internal energy can be defined as

A) Q/W

C) W/Q

B) Q - W

D) 1 + Q/W

Q.38 A heat engine operating according to second law of thermodynamics rejects one fourth of the heat taken from high temperature reservoir. What is the percentage efficiency of heat engine?

A) 100%

C) 50%

B) 25%

D) 75%

Q.39 First law of thermodynamics under adiabatic conditions can be mathematically written as:

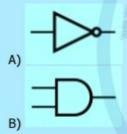
A) Q = W

C) Q = U + W

B) $Q = \Delta U$

D) $W = -\Delta U$

Q.40 What is the logic symbol for a NOT Gate?







Q.41 The voltage that is applied across X-plates is provided by a circuit called

A) Audio generator

C) Signal generator

B) Time base generator

D) Linear generator

Q.42 What will be the effect on the capacitance of a capacitor if area of each plate is doubled while separation between the plates is halved?

A) Capacitance remains same

C) Capacitance becomes four times

B) Capacitance becomes double

D) Capacitance reduces to half

Q.43 10 V potential difference is applied across the plate of 1 µF capacitor. What is the energy storied in capacitor?

A) 0.5 mJ

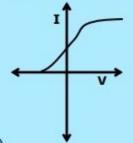
C) 5 mJ

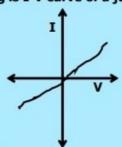
B) 0.05 mJ

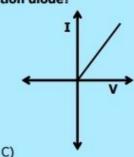
D) 50 mJ

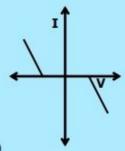
Q.44 Which one of the following is I-V curve of a junction diode?

B)









CHEMISTRY

Q.45 In the below reaction the nucleophile which attacks on the carbon atom of acid is:

- A) OH-
- B) P

- When ethanol chloride reacts with methylamine, an amide is formed. What is the structure of Q.46 the amide formed?

- Q.47 Organic compound containing both amine and carboxyl group is known as C) Saccharide
 - A) Amino acid
 - B) Fatty acid

B)

- D) Amide
- Alanine is an amino acid which shows neutral effect on litmus paper, the formula of alanine may Q.48
 - COOH A) сн-соон

- NH₂
- Q.49 Which of the following structures is not an alpha amino acid?
- сн-соон сн-соон

CH₂OH

- Q.50 The skeletal formula of dipeptide formed between aspartic acid and phenylalanine is given below:

D)

How many functional groups are present in its formula?

- A) 1
- B) 2

- C) 4
- D) 3

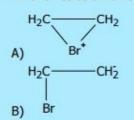
Q.51	In basic conditions, amino acid exists in which		
	A) H ₃ N*——CH ₂ ——COOH	C) H ₃ N*	
	в) H ₂ NСН ₂ СООН	C) H_3N^* — CH_2 — COO^-	
	ъ)	b)	
Q.52	Structure of dipeptide is		
Q.52			
	O H₂N—CH₂—C——NH		
	H ₂ N-CH ₂ -C-NH	-н¢соон	
		Cu	
	This is salled.	CH ₃	
	This is called:	C) Alasia d alasia a	
	A) Glycyl glycine	C) Alaninyl alanine	
	C) Glycyl alanine	D) Alaninyl glycine	
Q.53	The principle energy storage carbohydrate in	animal'e ie	
Q.55	A) Glucose	C) Protein	
	B) Starch	D) Glycogen	
	b) Starcii	b) diyageri	
Q.54	Starch is a polymer of		
Q.J-	A) β-D-glucose	C) γ–D–glucose	
	B) α– –glucose	D) α-L-glucose	
	b) α – glucose	D) u=L=glucose	
0.55	The second of th		
Q.55	The reaction between fats and caustic soda is		
	A) Hydrogenolysis B) Fermentation	C) Esterification	
	b) rementation	D) Saponification	
Q.56	Adipic acid and hexamethylene diamine both	of which have carbon atoms:	
Q.30	A) Seven	C) Six	
	B) Eight	D) Four	
	b) Light	D) Toda	
Q.57	Lactose is a sugar present in milk. It is an exa	mple of	
4.07	A) Disaccharides	C) Polysaccharides	
	B) Monosaccharides	D) Starch	
	b) i ioriosaccinariaes	by Startin	
Q.58	Macromolecules are described as large molecu	ales built up from small repeating units called:	
	A) Monomers	C) Metamers	
	B) Isomers	D) Tautomers	
Q.59	The increase in concentration of oxidizing age	nts in smog like H ₂ O ₂ , HNO ₃ , PAN and ozone in the	
	air is called		
	A) Carbonated smog	C) Photochemical smog	
	B) Nitrated smog	D) Sulphonated smog	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Q.60	Which is the metal, whose elevated concentr	ation is harmful for fish as it clogs the gills thus	
Q.00	causing suffocation?	action to that their tor those as to clogs the gills that	
	A) Sodium	C) Zinc	
	B) Lead	D) Aluminium	
Q.61	An organic compound has empirical formula C	3H3O, if molar mass of compound is 110.15 gmol-1	
2.01	The molecular formula of this organic compou		
	A) C ₆ H ₆ O ₂	C) C9H9O3	
	C) C ₃ H ₃ O	D) C ₆ H ₆ O ₃	
	c) c31130	b) car 1603	
Q.62	When 8 grame (4 moles) of U. react with 2	moles of O ₂ , how many moles of water will be	
Q.02	formed?	moles of O ₂ , now many moles of water will be	
		C) Siv	
	A) Five	C) Six	
	B) Four	D) Three	
0.00	0.00 The state of the tensor of		
Q.63	The number of molecules in 22.4 dm ³ of H ₂ ga		
	A) 60.2 x 10 ²³	C) 6.02 x 10 ²⁵	
	B) 6.02 x 10 ²²	D) 6.02 x 10 ²²	

Page 8		
Q.64	Correct order of boiling points of the give	
	A) $H_2O > HF > HCI > NH_3$	C) H ₂ O > HF > NH ₃ > HCl
	B) HF > H ₂ O > HCl > NH ₃	D) HF > H ₂ O > NH ₃ > HCl
Q.65	The relative energies of 4s, 4p and 3d or	pitals are in the order
Q.00	A) 3d < 4p <4s	C) 4p < 4s < 3d
	B) 4s < 3d < 4p	D) 4p < 3d < 4s
	b) 15 < 3d < 1p	b) 1p < 3d < 13
Q.66	With increase in the value of Principal Qu	antum Number 'n', the shape of the s-orbitals remains
	the same although their sizes	
	A) Decrease	C) Remain the same
	B) Increase	D) May or may not remain the same
Q.67	The angle between unbybridized n-orbit	al and three sp ² hybrid orbitals of each carbon atom in
Q.07	ether is:	and three springbrid orbitals of each carbon atom in
	A) 120°	C) 109.5°
	B) 90°	D) 180°
Q.68	In 'H-F' bond electronegativity difference	
	A) Polar covalent bond	C) Pi (π) bond
	B) Non-polar covalent bond	D) Co-ordinate covalent bond
0.60	'AH' will be given a negative sign in	
Q.69	'ΔH' will be given a negative sign in	SAMA 11 CONTRACTOR OF THE SAME
	A) Exothermic reactions	C) Dissociation reaction
	B) Decomposition reactions	D) Endothermic reactions
Q.70	Lattice energy of an ionic crystal is the e	nthalpy of
	A) Combustion	C) Dissolution
	B) Dissociation	D) Formation
Q.71	As number of solute particles increases,	
	A) Remains the same	C) First increases, then decreases
	B) Increases	D) Decreases
Q.72	Boiling point constants help us to determ	nine
	A) Molar masses	C) Pressures
	B) Volumes	D) Masses
		11 21 1 1 1 1 1
Q.73	In electrolysis of aqueous CuCl ₂ , the met A) Sodium	C) Lead
	B) Aluminium	
	b) Aluminum	D) Copper
Q.74	In MgCl ₂ , the oxidation state of 'Cl' is	
	A) Zero	C) -2
	B) +2	D) -1
Q.75	Formation of NH- is reversible and exoth	ermic process, what will happen on cooling?
2.75	A) More reactant will form	C) More H ₂ will be formed
	B) More N ₂ will be formed	D) More product (NH ₃) will be formed
	by hore Hz Will be formed	b) Hore product (Wils) Will be formed
Q.76	A buffer solution is that which resists/mi	
	A) pOH	C) pKa
	B) pH	D) pKb
Q.77	In some reactions, a product formed acts	s as a catalyst. The phenomenon is called
	A) Negative Catalysis	C) Hetergeneous catalysis
	B) Activation of Catalyst	D) Autocatalysis
	zy. caracon or catalyst	2) natocatarjoio
Q.78		creases with the passage of time because
	A) Concentration of reactants decrease	C) The order of reaction changes
	B) Concentration of product decreases	D) Temperature of the system changes

	A) H ₂ O at room temperature B) Ethanol, heat	C) KOH in alcohol D) Dilute NaOH _(aq) warm
	The reagent and the condition used in this	
	H ₃ C-CH ₂ -Br	→ H ₃ C−CH ₂ −OH
Q.92	The alkaline hydrolysis of bromoethane sho	own below gives alcohol as the product:
	B) Carbonyl reduction	D) Formylation
W. 1925	A) Acylation	C) Alkylation
Q.91	O	ne is called
	B) CI+	D) CIº
Q.90	A) CI-	C) Cl₂
Q.90	In the following, which one is free radical?	
	B) Condensation	D) Pyrolysis
Q.89	Ethene on polymerization, gives the product A) Addition	ct polyethene. This reaction may be called as C) Substitution
	A) Proteins occurring in living bodies B) Ammonium salts obtained industrially	C) Air D) Minerals containing nitrates
Q.88	In the Haber process for manufacturing of	
	5/2/0-3/0K(0 C-100 C)	2) 370 = 000 K (300 C = 300 C)
	A) 670 – 770 K (400 °C – 500 °C) B) 270 – 370 K (0 °C – 100 °C)	C) 370 – 470 K (100 °C – 200 °C) D) 570 – 600 K (300 °C – 380 °C)
Q.87	In modern Haber Process Plants, the tempo	
	B) The reaction is highly exothermic	D) SO ₃ is insoluble in water
	A) The reaction does not go to completion	C) The reaction is quite slow
Q.00	water because	maric delay Sulpital Gloxide (303) is not absorbed in
Q.86	In Contact Process for manufacturing culm	huric acid, Sulphur trioxide (SO ₃) is not absorbed in
	B) 7	D) Between 7 and 14
Q.85	The acid rain water has pH: A) Below 5	C) Between 5 and 7
	B) Cu and Sc	D) Cu and Cr
Q.84	Which pair of transition elements shows at A) Sc and Zn	onormal electronic configuration? C) Zn and Cu
0.01	77	mm so.
	B) +6, +7, +2, +4	D) +4, +6, +7, +2
Q.83	Oxidation state of 'Mn' in KMnO ₄ , K ₂ MnO ₄ , A) +7, +6, +2, +4	MnO ₂ and MnSO ₄ is in the order: C) +7, +6, +4, +2
2 22		
	B) Polymerization	C) Cyclization D) Catenation
	property of self-linking in carbon is known A) Condensation	
Q.82		g chains by bonding with other carbon atoms. This
	B) $MOH_{(s)} \longrightarrow M_2O_{(s)} + H_2O_{(l)}$	D) $4MOH_{(s)} \longrightarrow 4M_{(s)} + 2H_2O_{(l)} + O_2$
	A) $M(OH)_{2(s)} \longrightarrow MO_{(s)} + H_2O_{(t)}$	C) 2MOH _{2(s)} - 2MO _(s) + H _{2(l)}
	correct representation of this decomposition	on?
Q.81	Alkaline earth metal hydroxides decompos	se on heating. Which of the following reactions is a
	B) More the reducing power	D) Bigger the atomic radius
Q.00	A) More the electropositivity	C) Less the metallic character
Q.80	More the ionization energy of an element:	
	B) Melting point	D) Electrical conductivity
Q.79	Which one remains same along a period? A) Atomic radius	C) Number of shells (orbits)
		The same and the s

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0.93 In the reaction of ethane with bromine the intermediate formed is



D) H₂C===CHBr

Q.94 In substitution reactions, dihaloalkane or secondary halogenoalkane give / show:

A) S_N1 Mechanism

C) Both E₁ and E₂

B) S_N2 Mechanism

D) Both S_N1 and S_N2

Q.95 The dehydration of ethyl alcohol with concentrated H₂SO₄ at 140°C gives:

A) Ethene

C) Alcohol

B) Diethyl ether

D) Carboxylic acid

Q.96 Ethanol can be converted in to ethanoic acid by:

A) Oxidation

C) Hydration

B) Fermentation

D) Hydrogenation

Q.97 The following structure is of:



A) Secondary alcohol

C) Tertiary alcohol

B) Primary alcohol

D) Carboxylic acid

Q.98 When ethanol is warmed with ethanoic acid in the presence of strong acid catalyst, an ester ethyl ethanoate is formed.

A) Alcohol is reduced

C) O-H bond in ethanol is broken

CH₃CO₂CH₂CH₃

- B) O-H bond in ethanoic acid is broken
- D) Acid is oxidized

Q.99 Primary alcohols normally give us aldehydes when oxidized in the presence of Na₂Cr₃O₇, what the product will be, when the secondary alcohols are oxidized in same conditions?

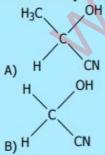
A) Alkenes

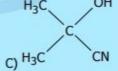
C) Alkyl halides

B) Alkynes

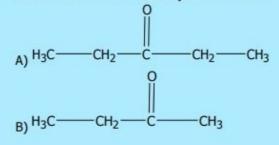
D) Ketones

Q.100 Formaldehyde reacts with HCN (NaCN + HCI) to give a compound:





Q.101 Iodoform test will not be positive with:



Q.102 When CH₃-CH₂-OH is oxidized in the presence of K₂Cr₂O₇ and H₂SO₄, the product formed is



Q.103 He had a heart attack and all attempts to ______ him failed.

ENGLISH

	A) Renew B) Resuscitate	C) Revis D) Refur		
Q.104	The stench of dead a A) Putrid B) Purified	nimals and plants made C) Pertu D) Purch	rbed	3
Q.105	While going up the hills, by bus, A) Fishy B) Itchy	she feltin C) Quea D) Sque		
Q.106	The craft statesman manipulate festivities as a to for A) Red-Hearing B) Red-Feather	d the situation by make of the public. C) Red-h	Herring	es and declaring sport
\Longrightarrow	SPOT THE ERROR: In the founderlined. Your task is to it contains the mistake that ne letter under the segment in the	dentify that underline eds to be corrected.	ed segment of Fill the Circle o	the sentence, which
Q.107	The theory was <u>discarded</u> as there w A) B) C)	as no corroborating eviden	nce <u>for</u> its favour. D)	
Q.108	The workers were raising much hue a A) B)	and cry when their <u>demand</u> C)	ds were turned <u>awa</u> D)	
Q.109	Aslam was badly cudgeled <u>from</u> his s A) injury <u>was</u> serious. D)	tep-brother. He received n	nany <u>bruises</u> and c B)	ontusions. <u>Thank</u> God! No C)
Q.110	I extend a cordial invitation <u>for</u> you A) fertilizers <u>over</u> there.	<u>to</u> visit our farm house. V B)	Ve have <u>grown</u> ve C)	getables without chemical
Q.111	Although he is not a close relative of	me, yet I was <u>greeted</u> with A) B)	h <u>a</u> show <u>of</u> deep c C) D)	ordiality.
Q.112	This antibiotic destroys red corpuscle		ernicious anaemia.	

Page 1	2 of 19		
\Rightarrow		four alternative sentences are given. ircle corresponding to that letter in the	
Q.113	A) Why does not Nomana remained true to her husband? B) Why did not Nomana remain true to her husband? C) Why had not Nomana remain true to her husband? D) Why did not Nomana remained true to her husband?	?	
Q.114	A) All my childhood, I longed desperately in for a tricycle. B) All my childhood, I longed desperately to a tricycle. C) All my childhood, I longed desperately for a tricycle. D) All my childhood, I longed desperately at a tricycle.		
Q.115	A) She felt unreal to the voice informed her of the sur B) She felt unreal as the voice informed her of the sur C) She felt unreal that the voice informed her of the sur D) She felt unreal for the voice informed her of the sur	bway accident.	
Q.116	A) Bill Gates is one of the wealthiest person in the world B) Bill Gates is one of the wealthy person in the world C) Bill Gates is one of the wealthiest persons in the w D) Bill Gates is one of the more wealthy person in the	d. vorld.	
Q.117	A) Her father is a SP in the Punjab Police. B) Her father was a SP in the Punjab Police.	C) Her father is an SP in the Punjab Police. D) Her father are a SP in the Punjab Police.	
Q.118	A) There were musical instruments in the shop. B) There was musical instruments in the shop.	C) There has musical instruments in the shop. D) There is musical instruments in the shop.	
Q.119	A) He died for heart attack in 1982. B) He died with heart attack in 1982.	C) He died in heart attack in 1982. D) He died of heart attack in 1982.	
Q.120	A) Always speak in the truth. B) Always tell for the truth.	C) Always tell the truth. D) Always telling truth.	
Q.121	A) Hand up the answer sheet to me. B) Hand over the answer sheet to me.	C) Hand down the answer sheet to me. D) Hand for the answer sheet to me.	
Q.122	A) Are you noticed the peach blossoms? B) Have you noticed the peach blossoms?	C) Will you noticed the peach blossoms? D) Were you noticed the peach blossoms?	
\Longrightarrow		ur alternative meanings of a word are I CORRECT MEANING of the given word Response Form.	
Q.123	DISSONANCE A) Inconsistency B) Expansion	C) Perceptible D) Warp	
Q.124	TRIFLE A) Pudding B) Minor	C) Deluge D) Treble	

Q.125	A) Dusty B) Squeamy	C) Clear D) Unclear
Q.126	FAUX A) Blunder B) Mistalia	C) Indiscretion
Q.127	B) Mistake MYRIAD A) Countable	D) False C) Measured
	B) Multitude	D) Blurred
Q.128	FACILE A) Fallacy B) Depict	C) Delicate D) Superficial
Q.129	MAGNUM A) Masterpiece B) Magnanimity	C) Modest D) Magnetic
Q.130	SIDLE A) Sneak	C) Siege
Q.131	B) Sift PLETHORA	D) Sieve
Q.131	A) Plastic B) Super-fluidity	C) Measure D) Malleable
Q.132	VERTEX A) Poetry B) Depth	C) Zenith D) Diminish
	<u></u>	BIOLOGY
Q.133		lucts nerve impulses from the cell body is
	A) Dendron B) Dendrites	C) Axon D) Peripheral branch
Q.134	The number of cranial nerves in hur A) 31 pairs B) 12 pairs	C) 24 pairs D) 62 pairs
Q.135	The part of brain which controls bre A) Cerebrum B) Cerebellum	eathing, heart rate and swallowing is C) Medulla D) Hypothalamus
Q.136	Syphilis is a sexually transmitted di A) Neisseria gonorrhoeae B) E. coli	sease which is caused by C) Treponema pallidum D) Mycobacterium avium
Q.137	Discharge of ovum or secondary ood A) Fertilization B) Pollination	cyte from ovary or from Graafian follicle is called C) Follicle formation D) Ovulation
Q.138	Second meiotic division in the second A) Metaphase B) Prophase	ndary oocyte proceeds as far as C) Anaphase D) Telophase
Q.139	Which one of the following different A) Primary spermatocyte B) Secondary spermatocyte	tiates directly into mature sperm? C) Spermatogonia D) Spermatid

Page 1		
Q.140	Uterus opens into the vagina through	
	A) Cervix	C) External genitalia
	B) Fallopian tube	D) Vulva
Q.141	Each muscle fibre is surrounded by membrane	which is called
	A) Sarcomere	C) Twitch fibre
	B) Sarcolemma	D) Capsule
Q.142	When calcium ions are released from the sar	rcoplasmic reticulum they bind with
	during muscle contraction	
	A) Tropomyosin	C) Cytosol's ions
	B) Sarcolemma	D) Troponin
Q.143	Human and mammalian skeleton can be divide	d into two parts, axial skeleton and
4.1.0	A) Appendicular skeleton	C) Endoskeleton
	B) Exoskeleton	D) Hydrostatic skeleton
Q.144	Last four vertebrae in humans are fused to form	
	A) Sacrum	C) Pubis
	B) Cervical vertebrae	D) Coccyx
Q.145	How many bones are involved in the formation	of each half of pelvic girdle?
	A) 3 bones	C) 2 bones
	B) 4 bones	D) 1 bone
Q.146	Ductless glands are known as	
	A) Endocrine gland	C) Salivary glands
	B) Exocrine gland	D) Bile glands
Q.147	Gastrin is the hormone which is produced by th	
Q.147	A) Liver	B) Pyloric region of stomach
	C) Adrenal gland	D) Mucosal lining of intestine
Q.148	β-cells of liver secrete a hormone that is called	
	A) Insulin	C) Antidiuretic hormone
	B) Glucagon	D) Gastrin
Q.149	Vasopressin and Oxytocin are released from the	
	A) Placenta	C) Anterior pituitary
	B) Ovary	DV Destaulation like the second
2 122		
Q.150	Antigen is a foreign protein or any other molec	
	A) MHC complex B) Immunogen	C) Mucus D) Antibodies
	b) Illindiogen	b) Altabodies
Q.151	Antibodies are produced by which of the follow	ring lymphocytes?
-	A) B lymphocytes	C) T lymphocytes
	B) A lymphocytes	D) B and T lymphocytes
0.453	Thumbanda barran and an and a same to the	
Q.152	T-lymphocytes become mature and competent A) Liver	C) Thymus gland
	B) Bursa of fabricius	D) Spleen
	by barea or identicus	о у органи
Q.153	Skin and mucous membranes are part of the bo	ody defense system and they form the
	A) Physical barrier	C) Chemical barriers
	B) Mechanical barriers	D) Biological barriers
0.154	Casks hits is treated with which two of i	sination?
Q.154	Snake bite is treated with which type of immur A) Active	C) Humoral
	B) Passive	D) Specific

Q.155	The product(s) of cyclic photophosphorylation		
	A) ATP	C) NADP and ATP	
	B) NADP	D) NADP, ATP, and O ₂	
0.156	66 Total NADH formed by one glucose molecule during Krebs's Cycle are		
Q.156			
	A) 6	C) 8	
	B) 3	D) 18	
Q.157	The terminal electron acceptor in electron tran	snort chain is	
Q.137	A) Hydrogen	C) Cytochrome	
	B) Iron	D) Oxygen	
	b) II (II	b) oxygen	
Q.158	The end product of glycolysis is		
4.200	A) ADP	C) Citric acid	
	B) Reduced FAD	D) Pyruvate	
	5) 11000000 1715	5). j. a.a.c	
Q.159	One molecule of FADH2 is produced in Krebs's	cycle during conversion of	
	A) Fumarate Malate	C) Malate Oxaloacetate	
	B) Succinate Fumarate	D) α-Ketoglutarate Succinate	
	b) saccinate i amarate	b) w netograturate bactriate	
Q.160	In recombinant DNA technology ar	e tools for manipulating DNA	
4.100	A) Viruses	C) Enzymes	
	B) Chromosomes	D) Genes	
	CAN DESCRIBE		
Q.161	In DNA finger printing process, the use of	produces distinctive pattern on	
(A) 100 (A)	autoradiography or X-ray film		
	A) Restriction enzyme	C) Macrosatellites	
	B) Microsatellites	D) Probes for genetic markers	
Q.162	In the recombinant DNA technology plasmids a	are used as	
Mark Commit	A) Genetic material	C) Vectors	
	B) Enzymes	D) Probes	
Q.163	In which process, multiple copies of the desire	d genes are produced?	
	A) Polymerase chain reaction	C) Analyzing DNA	
	B) Gene sequencing	D) DNA finger printing	
Q.164	The enzyme adenosine deaminase is missing in		
	A) Cystic fibrosis	C) Severe combined immunodeficiency syndrome	
	B) Hypercholesterolemia	D) Parkinson's disease	
		SIR	
Q.165	What is the niche of an organism in an ecosyst		
	A) Role played by many organisms in an ecosystem	C) Role played by community of microorganisms in	
		their ecosystem	
	B) Role played by a dead organism in an ecosystem	D) Role played by an organism in its ecosystem.	
0.155	The distinct levels on links of food shale several	lad.	
Q.166	The distinct levels or links of food chain are cal		
	A) Trophic level	C) Energy pyramid	
	B) Food web	D) Food chain	
Q.167		ns of different species in which all partners get	
	benefit is called	0) 0	
	A) Symbiosis	C) Commensalism	
	B) Parasitism	D) Predation	
Q.168	Bacteria and fungi are examples of		
	A) Producers	C) Consumers	
	B) Decomposers	D) Denvers	
Q.169	The cause of acid rain is		
	A) Oxides of carbon	C) Oxides of Sulphur	
	B) Oxides of nitrogen and Sulphur	D) Oxides of nitrogen	

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Q.170		suppresses the effect of a gene at another locus, the								
	phenomenon is called	C) Enistante								
	A) Hypostasis	C) Epistasis								
	B) Pleiotropy	D) Epitropy								
Q.171	The gene for ABO-blood group systems in h									
	A) X	C) Y								
	B) I	D) O								
Q.172	When a single gene affects two or more train	its, the phenomenon is called								
	A) Epistasis	C) Dominance								
	B) Pleiotropy	D) Over dominance								
Q.173	The comparative embryology of all vertebra	ites shows development of								
- S.	A) Hairs	C) Scales								
	B) Gill pouches	D) Fins								
Q.174	In men, sex-determination depends upon the	he nature of								
100000000	A) Heterogametic male	C) Heterogametic female								
	B) Homogametic female	D) Homogametic male								
		10 70 200								
Q.175	Population of different species (plants and a A) Community	animals) living in the same habitat form a C) Biosphere								
	B) Ecosystem	D) Microhabitat								
	by Ecosystem	b) Pilci Oriebilat								
Q.176		al and functional unit and is composed of more than								
	one tissue is called									
	A) Organ	C) Organ system								
	B) Organelle	D) Whole organism								
Q.177	A method in which pests are destroyed by	using same living organisms or natural enemies is								
	called									
	A) Pasteurization	C) Biological control								
	B) Integrated disease management	D) Genetic engineering								
Q.178	Chemicals produced by microorganisms which are capable of destroying the growth of microbes									
	are called									
	A) Antigen	C) Antiseptics								
	B) Biocidal	D) Antibiotics								
Q.179	Plastids are only found in the									
	A) Animals and Plants	C) Plants								
	B) Animals	D) Viruses								
Q.180	Plasma membrane is chemically composed	of								
100	A) Phospholipids only	C) Lipids and carbohydrates								
	B) Lipids and proteins	D) Glycoproteins								
Q.181	Endoplasmic reticulum contains a system	of flattened membrane-bounded sacs which are								
	named as									
	A) Cristae	C) Cisternae								
	B) Marks	D) Tubules								
Q.182	Lipids synthesis / metabolism takes place in									
	A) Mitochondria	C) Rough endoplasmic reticulum								
	B) Vacuoles	D) Smooth endoplasmic reticulum								
Q.183	Ribosomes exist in two forms, either attach									
	A) Tonoplast	C) Cytoplasm								
	B) Golgi bodies	D) SER								

Q.184	Exchange of segments between homologo										
	A) Segregation	C) Crossing over									
	B) Independent assortment	D) Mutation									
Q.185	If a person has 44 autosomes + XXY, he will suffer from										
	A) Klinefelter's syndrome	C) Turner's syndrome									
	B) Down's syndrome	D) Edward's syndrome									
Q.186	The ribosomal RNA is synthesized and stor	ed in									
	A) Endoplasmic reticulum	C) Golgi complex									
	B) Nucleolus	D) Chromosomes									
Q.187		ease in cell size and many biochemical are formed?									
	A) G ₂ phase	C) S phase									
	B) G ₁ phase	D) C phase									
Q.188	In Down's syndrome, which one of the following pair of chromosome fails to segregate?										
150	A) 7	C) 21									
	B) 18	D) 19									
Q.189	Carbohydrates are organic molecules and										
	A) Carbon, water and oxygen	C) Carbon, calcium and hydrogen									
	B) Carbon, Sulphur and hydrogen	D) Carbon, hydrogen and oxygen									
Q.190	Which one are intermediates in respiration	and photosynthesis both?									
	A) Ribose and heptolose	C) Glucose and galactose									
	B) Glyceraldehydes and dihydroxyacetone	D) Fructose and ribulose									
Q.191	Which of the following is a peptide bond?										
	A) -C-N	C)-C-P									
	B) -C-O	D) -C-S									
Q.192	Which of the following is an unsaturated fa	atty acid?									
Q.132	A) Acetic Acid	C) Oleic acid									
	B) Butyric acid	D) Palmitic acid									
		0 7// //									
Q.193	Which of the following combination of bas										
	A) A–T	C) A–U									
	B) C-G	D) T-A									
Q.194	The type of inhibition in which inhibitor ha	as no structural similarity to substrate and combines									
4.25	with enzyme at other than the active site i										
	A) Irreversible inhibition	C) Non-competitive and reversible inhibition									
	B) Competitive inhibition	D) Reversible inhibition									
0.105	The inhibitory that hind tightly and norman	antly to anymor and destroy their globular structure									
Q.195	and catalytic activity are	ently to enzymes and destroy their globular structure									
	A) Reversible inhibitors	C) Competitive inhibitors									
	B) Irreversible inhibitors	D) Non-competitive inhibitors									
		•									
Q.196	Enzyme succinate dehydrogenase converts										
	A) Malate	C) Citrate									
	B) Malonic acid	D) Fumarate									
Q.197	If the detachable co-factor is an inorganic ion then it is designated as										
200000000000000000000000000000000000000	A) Coenzyme	C) Holoenzyme									
	B) Prosthetic group	D) Activator									
0.100	In UTV viruees reverse transcripture con-	earte cingle-etranded DNA into double etranded vival									
Q.198	DNA. This process is called	verts single-stranded RNA into double stranded viral									
	A) Translation	C) Replication									
	B) Duplication	D) Reverse Transcriptace									

Control of the Contro	8 OF 19											
Q.199	Mesosomes are infoldings of the cell membran											
	A) DNA replication	C) Protein synthesis										
	B) RNA synthesis	D) Metabolism										
Q.200	Most widespread problem of the antibiotics misuse is the											
120	A) Rapid cure	C) Disturbance of metabolism										
	B) Increased resistance in pathogen	D) Immunity										
Q.201	Which of the following component is found in	the cell wall of fungi?										
	A) Cellulose	C) Proteins										
	B) Chitin	D) Glycerol										
Q.202	The male reproductive parts of the flower are called											
	A) Gynoecium	C) Androecium										
	B) Calyx	D) Corolla										
Q.203	Fasciola is the name given to											
Q.205	A) Tapeworm	C) Liver fluke										
	B) Planaria	D) Earthworm										
	b) Fidilalia	b) Laidiworiii										
Q.204	Ascaris is											
	A) Diploblastic	C) Haploid										
	B) Triploblastic	D) Acoelomate										
Q.205	During development, in an animal, mesoderm	layer gives rise to										
1000000	A) Nervous System	C) Muscular and skeletal system										
	B) Alimentary canal lining	D) Mouth										
Q.206	Polymorphism is characteristic feature of											
Q.200		C) Appolida										
	A) Porifera	C) Annelida										
	B) Cnidaria	D) Nematodes										
Q.207	The muscles of the stomach walls thoroughly mix up the food with gastric juices and the											
	resulting semi-solid / semi-liquid material is ca A) Bolus	C) Mucus										
	B) Bolus or chime	D) Chyme										
Q.208	Trypsinogen is converted into trypsin by the activity of											
	A) Goblet cells	C) Enterokinase										
	B) Absorptive cells	D) Peptidase										
Q.209	In large intestines, vitamin K is formed by the	activity of										
	A) Symbiotic bacteria	C) Parasitic bacteria										
	B) Obligate parasite	D) Facultative bacteria										
Q.210	Goblet cells secrete											
Q.210		C) Enzymes										
	A) HCl B) Mucus											
	b) Flucus	D) Amylase										
Q.211	Mature mammalian red blood cells do not have											
	A) Nucleus	C) Fluids										
	B) Red color	D) Haemoglobin										
Q.212	In a normal person plasma constitutes about _	by volume of blood										
Q.212	A) 50%	C) 45%										
	B) 60%	D) 55%										
Q.213	Which vein has oxygenated blood?											
Q	A) Renal vein	B) Pulmonary vein										
	B) Subclavian vein	D) Jugular vein										

Page 19 of 19 0.214 What is the residual volume of air which always remains inside the lungs of human? A) 3.5 Liters C) 5.0 Liters B) 0.5 Liters D) 1.5 Liters Q.215 In nephron, most of the reabsorption takes place in the A) Distal tubule C) Ascending limb B) Proximal tubule D) Descending limb Q.216 Detection of change and signaling for effector's response to the control system is a A) Negative feedback C) Inter-coordination B) Positive feedback D) Feedback mechanism Q.217 What are three components of mechanism of homeostatic regulations? C) CNS, PNS and diffused nervous system A) Receptors, control centre and effectors B) Sensory, motor and associative neurons D) Cerebrum, cerebellum and pons Q.218 Blood enters the glomerulus through A) Efferent arteriole C) Renal artery B) Afferent arteriole D) Renal vein Q.219 Which portion of nephron is under the control of ADH? C) Distal and collecting ducts A) Bowman's capsule D) Descending arm B) Ascending arm

C) ADH hormone

D) Oxytocin

Cause of Parkinson's disease is death of brain cells that produce

Q.220

A) DopamineB) Acetylcholine



University of Health Sciences, Lahore Entrance Test - 2012

For admission to Medical / Dental Institutions of the Punjab ANSWER KEY

The answer key to the questions of Entrance Test 2012 is being released.

Candidates can calculate their scores with the help of carbon copy of their response forms. Each correct answer carries 05 marks whereas one mark will be deducted from the total score for each wrong answer. Unattempted question carries zero marks. Complaints/ queries will be dealt only after the declaration of official result of the Entrance Test by the University. No request in this regard will be entertained before that.

O No Ans

O No Ans O No Ans

Q.No.	Ans		Q.No.	Ans		Q.No.	Ans		Q.No.	Ans	Q.No.	Ans
ID	В		46	D		92	D		138	Α	184	С
1	В		47	Α		93	Α		139	D	185	Α
2	С	1	48	A		94	D		140	A	186	В
3	Α	1	49	В		95	В		141	В	187	В
4	D	1	50	С		96	Α		142	D	188	С
5	Α	1	51	D	-	97	A		143	A	189	D
6	В	1	52	В	30	98	C	14 30	144	D	190	В
7	В	1	53	D	10	99	D 10)	1	145	A	191	Α
8	Α	1	54	B	17	100	В	10/	146	A	192	С
9	D	1	55	D	19	101	A		147	С	193	С
10	A	1	56	C	1	102	A		148	X	194	С
11	D	1	57	A		103	В		149	D	195	В
12	A	1	58	A		104	A		150	D	196	D
13	В	1	59	C		105	C		151	A	197	D
14	В	1	60	D		106	C		152	C	198	D
15	C	1	61	A		107	D		153	A	199	A
16	D	1	62	В		108	D		154	В	200	В
17	В	1	63	D		109	A		155	A	201	В
18	В	1	64	C	7	110	A		156	A	202	C
19	В	1	65	В		111	A		157	D	203	C
20	D	1	66	В		112	D		158	D	204	В
21	A	1	67	В		113	В	1	159	В	205	C
22	A	1	68	A		114	C		160	C	206	В
23	c	1	69	A		115	В		161	D	207	D
24	D	1	70	D	60	116	C	01	162	C	208	C
25	C	1	71	D	(3)	117	C	All .	163	A	209	A
26	В	1	72	A		118	A		164	C	210	В
27	D		73	D		119	D		165	D	211	A
28	В		74	D		120	C		166	A	212	D
29	C		75	D		121	В		167	A	213	C
30	D	1	76	В		122	В		168	В	214	D
31	В	1	77	D		123	A		169	В	215	В
32	В	1	78	A		124	В		170	C	216	D
33	C	1	79	C		125	D		171	В	217	A
34	D	1	80	C		126	D		172	В	218	В
35	A	1	81	A		127	В		173	В	219	C
36	A	1	82	D		128	D		174	A	220	A
37	В	1	83	C		129	A		175	A	220	
38	D	1	84	D		130	A		176	A		
39	D	1	85	A		131	В		177	C		
40	A	1	86	В		132	C		178	D		
41	В	1	87	A		133	C		179	C		
42	C	1	88	C		134	В		180	В		
43	В	1	89	A		135	C		181	C		
44	В	1	90	D		136	С		182	D		
45	C	1					D			C		
45	C		91	A		137	U		183	C		