University of Health Sciences, Lahore



Max. Marks: 1100

BC

ID

1

2

3

ENTRANCE TEST – 2015 For F.Sc. and Non-F.Sc. Students <u>Time Allowed: 150 minutes</u>

Instructions:

Total MCOs: 220

- 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

Q-ID. What is the color of your Question Paper?

A) White. **B) Blue.**

D) Green.

C) Pink.

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).

PHYSICS

Q.1	One method of creating illuminating the laser mate	an inverted population is known as rial with light.	_ and consist of
	A) Optical Pumping	C) Bremsstrahlung	
	C) Excitation	D) Holography	

- **Q.2** In population inversion (Ruby Laser) atoms can reside in the excited state for: A) 10⁻¹¹ C) 10⁻³
 - C) 10⁻⁸

D) 10⁺³

C) $\sqrt{\frac{Ve}{2m}}$

D) $\sqrt{\frac{2Ve}{m}}$

Q.3 If electrons of charge 'e' moving with velocity 'v' are accelerated through a potential difference 'V' and strike a metal target, then velocity of electrons is:



Q.4 In X-ray tube, electrons after being accelerated through velocity 'v' strike the target, then the wavelength of emitted X-rays is:

A) Not greater than

eV

B) Not less than $\frac{hc}{eV}$

C) Equal to the $\frac{h}{mV}$ D) Equal to $\frac{hc}{eV}$



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Q.5	In the reaction, $^{234}_{92}$ Th $\rightarrow ^{234}_{91}$ Y + $^{0}_{1}$ e the ele	ectron $_{-1}^{0}$ e emits from the
-	A) 1 st Orbit	C) Nucleus
	B) 2 nd Orbit	D) Valence Shell
0.6	According to the equation $^{A}X \longrightarrow X + 3\alpha$ pa	articles what are the atomic and mass numbers
Q.0	of Y?	in teles, what are the atomic and mass numbers
	A) Z – 6, A – 12	C) Z + 1, A
	B) Z – 2, A – 4	D) Z + 3, A
Q.7	A certain radioactive nuclide of mass number	r `x' decays by $\beta\text{-emission}$ and $\alpha\text{-emission}$ to a
	second nuclide of mass number 't'. Which of fo	llowing correctly relates 'x' and 't'?
	A) $x = t + 4$ B) $x = t - 4$	C = X - 3 = t
	D) x = t = 4	D $X = 1 = 1$
Q.8	During the decay of radioactive isotopes $^{232}_{90}X$	to a stable isotope, six a -particles and four β - er 'Z' and mass number 'A' of the stable isotopes
	A) $Z = 70$, $A = 220$	C) $Z = 82$, $A = 212$
	B) Z = 78, A = 212	D) $Z = 82$, $A = 208$
.	Cabalt CO is used in medicine and is an interest	
Q.9	() aparticles	
	R) B-narticles	D) Neutrons
	b) p particles	
Q.10	In fluid flow, for the equation of continuity A	$_1v_1 = A_2v_2$. If velocity of the fluid at one end is
	doubled, then what will be the cross-sectional	area at this end?
	A) Double	C) $(Half)^2$
		D) (Double)-
Q.11	The value of least distance vision for normal ey	re is
	A) 20 cm	C) 25 cm
	B) 30 cm	D) 40 cm
0.12	The distance between two dark adjacent fringe	es is mathematically written as:
u	λL	λd
	A) $\Delta Y = \frac{1}{d}$	$L \Delta Y = \frac{L}{L}$
	B) $\Delta Y = \frac{\lambda}{\lambda}$	$D) \Delta Y = \frac{d}{d}$
	dL	λL
0 13	In Young's Double Slit Experiment, slit separa	tion $x = 0.05$ cm distance between screen and
QIIS	slit D = 200 cm, fringes separation $x = 0.13$ cm	b, then the wavelength λ' of light is:
	A) $\lambda = 1.23 \times 10^{-2} \text{ m}$	C) $\lambda = 4.55 \times 10^{-5} \text{ m}$
	B) $\lambda = 3.25 \times 10^{-7} \text{ m}$	D) $\lambda = 5.1 \times 10^{-7} \text{ m}$
0.14	To accord a disaturant of company days	and the sup piece is positioned as that the final
Q.14	In normal adjustment of compound microsco	be, the eye piece is positioned so that the final
	A) Optical Center	C) Principle Focus
	B) Infinity	D) Near Point
Q.15	Mathematical formula of maximum velocity (v	 o) for a body executing simple harmonic motion
	15:	
	A) $v_o = \omega x_o$	C) $v_0 = v \left(1 - \frac{x^2}{x^2} \right)$
	k	γx_{0}^{2}
	B) $v_0 = \frac{\kappa}{m} \sqrt{x_0^2 - x^2}$	D) $v_0 = m \sqrt{x_0^2 - x^2}$
	m • ·	
Q. 16	A body is having weight 20 N, when the elevate	or is descended with $a = 0.1 \text{ ms}^{-2}$, then the value
	of tension 'T' is:	

A)	190 N	
C)	19.8 N	

C) 1.98 N D) 2 N



Q.17 Sodium 24 has half-life of 15 hour and it is used in medicine to estimate:

A) Kidney Function B) Plasma Blood Volume C) Iron in Plasma D) Thyroid Function

Q.18 The unit of temperature in base unit is: A) Celsius B) Degree

C) Kelvin D) Fahrenheit

- Q.19 The dimensions of pressure is:
 - A) [M⁻¹L²T⁻²] B) [ML⁻¹T]

Q.21

Q.22

Q.23

C) [M⁻¹L⁻²T⁻²] D) [ML⁻¹T⁻²]

Q.20 In Wilson Cloud Chamber which of the following tracks represented β -particles?



Q.24 What should be the ration of kinetic energy to total energy for simple harmonic oscillator?

A) 1 –	$\frac{x}{x_0^2}$	C) (x _o ² –
B) 1	Ŭ	D) $\frac{1}{2} x^2$

Q.25 An observer moves with velocity v_0' toward a stationary source, then the number of waves received in one second is:

x²)

C) $f' = f\left(\frac{v + v_0}{v}\right)$

D) f' = f $\left(\frac{v - v_0}{v}\right)$

۸١.	f	f	(_	۷	_)
R)	. =	= 1	۱	+ v,	。)
<u>ع</u> ا ،	f	f	(۷	_)
D)	. =		۱V	- v	J

Q.26Strain energy in a deformed energy is stored in the form of:
A) Elastic Energy
B) Potential EnergyC) Plastic Energy
D) Kinetic Energy



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A)

B)

Q.27 A wire of area of cross section `A' and original length `l' is subjected to a load `L'. A second wire of same material with an area is `2A' and length `2l' is subjected to the same load `L'. If the extension in first wire is `X' and second wire is `Y', find the ratio `X/Y'.

$\sqrt{\frac{1}{2}}$	$O^{\frac{1}{2}}$
⁹ 4	c) ₁
$\frac{1}{2}$	D) 2
^y 2	- (U

Q.28Two sample of gases `1' and `2' are taken at same temperature and pressure but the ratio of
number of their volume is $V_1:V_2 = 2:3$. What is the ration of number of moles of the gas sample?A) 3:2C) 4:9B) $\sqrt{2}:\sqrt{3}$ D) 2:3

D)

Q.29 Root mean square velocity of a gas having pressure 'P' and density ' ρ ' is given by:

3P			
νp			
3P			

Q.30 When the rate of gas changes without change in temperature, the gas is said to undergo: A) Isothermal Process C) Isochoric Process

B) Adiabatic Process

C) Isochoric Process	
D) Isobaric Process	

Q.31	What is the 273 k on the Celsius scale of temperature?		
	A) 0.15 °C	C) -0.15 °C	
	B) 273.15 ℃	D) -273.15 °C	

- Q.32If heat `Q1' is absorbed at temperature `T' and heat `Q2' is absorbed at temperature of triple point
of water, then unknown temperature of system (in K) is:A) 273.16C) 273.16 QB) 273.16 Q2/Q1D) 273.16 Q1/Q2
 - $D_{1} = 273110 22721$
- Q.33 If the fundamental logic gates are connected as:



What are the mathematical notation for this logic gate?A) $(\overline{A + B}).(A + B)$ B) $(\overline{A + B}).(\overline{A + B})$ C) $(\overline{A + B})(\overline{A + B})$ D) $\overline{AB} + \overline{AB}$

- Q.34 Which combinations of seven identical resistors each of 2 Ω gives rise to the resultant of 10/11 Ω ?
 - A) 5 Parallel, 2 Series B) 4 Parallel, 3 Series

C) 3	Parallel,	4	Series
D) 2	Parallel,	5	Series

Q.35 If a resistor having resistance 'R' is cut into three equal parts, then the equivalent of parallel combination is:

A) 6	C
R	^{C)} 9
B) 3	D) R
′ R	23



Q.36 Which of the following is the truth table for the logic gate;



A bar of length 'L' pivoted at 'O' is acted by a force 'F' at an angle 'O' with vertical line as shown Q.37 in figure;

I

		F	
	U 0		
	What is the moment of force? A) L sinθ B) L cosθ	C) LF cos O D) LF sin O	
Q.38	The resistance of a piece of wire is 12Ω . It is leaving a part two corners	pent to form an equilate	ral triangle. What is the
	A) 1.3 Ω	C) 4.0 Ω	
	Β) 2.0 Ω	D) 2.7 Ω	
Q.39	Magnetic field strength is measure in: A) Wbm ⁻¹ B) Wbm ⁻²	C) Wbm ² D) Wb	
Q.40	Force on current carrying conductor per unit le	ngth is given by:	
	A) IL sinO B) IL B	B) IL D) IB sinA	
Q.41	In the case when the electrons lose all their kin photon emitted has which of the following set (letic energy (K.E.) in the of frequency and wavele	first collision, the X-ray ngth?
	A) f_{max} , λ_{min}	C) f_{min} , λ_{max}	
	D) Imax, Amax	D) Imin, Amin	
Q.42	If 'A' is fundamental dimension of ampere then	the dimension of magne	etic field strength is:
	B) $[MT^2A^{-1}]$	D) $[MT^2L^{-2}A^{-2}]$	
Q.43	The potential difference between target and ca 20 mA. What is the λ_{min} of the emitted X-ray?	athode of an X-rays tube	e is 20 kV and current is
	A) 6.19 x 10 ⁻⁴ m	C) 6.19 x 10^{-11} m	
		10, 51, 10 × 10, 50 (U	
	www.mcqsquiz.com		

Page 6 of 20 Q.44 Which of the following spectra is most typical of the output of an X-ray tube?



CHEMISTRY

'Ka' values of few organic acids are given: Q.45

Acid	K a Value
CH₃COOH	1.85 x 10 ⁻⁵
CCl₃COOH	2.3 x 10 ⁻²
CHCl₂COOH	5.0 x 10 ⁻³
CH ₂ CICOOH	1.3 x 10 ⁻³

The order of acid strength is:

A) $CCl_3COOH > CHCl_2COOH > CH_2CICOOH > CH_3COOH$

B) $CH_3COOH > CHCl_2COOH > CCl_3COOH > CH_2CICOOH$

C) $CHCl_2COOH > CH_3COOH > CCl_3COOH > CH_2CICOOH$

D) $CCI_3COOH > CH_3COOH > CHCI_2COOH > CH_2CICOOH$

Q.46 An organic acid 'z' reacts separately with sodium bicarbonate, sodium hydroxide and sodium carbonate. Which one of the following represent the structure of 'z'?

A)	HCOU	JC2H5	
B)	CH ₃ -	-CH=(CH2

C) CH₃CH₂OH D) H₃C-CH₂-COOH

Carboxylic acids are rather hard to reduce, which powerful reducing agent can be used to Q.47 convert them to the corresponding primary alcohol: A) H₂SO₄/HgSO₄

B) V₂O₅

C) LiAlH₄ D) K₂Cr₂O₇/H₂SO₄

Q.48



This structure is

A) Gly-Ala (dipeptide)

B) Asp-Gly (dipeptide)

C) Gly-Val (dipeptide) D) Asp-Val (dipeptide)

0.49 Which one of the following amino acids is basic in nature?

- A) Glycine
- B) Alanine

C) Lysine D) Glutamic acid



Which one of the following structures shows the correct formula of glutamic acid? Q.50



Q.51 Select the correct Zwitter ionic structures of an amino acid.



How many moles of sodium are present in 0.1 g of sodium? Q.52 A) 4.3×10^{-3} C) 4.01×10^{-2} B) 4.03 × 10⁻¹ D) 4.3×10^{-2}



With the help of spectral data given calculate the mass of Neon and encircle the best option. Q.54 (Percentage of 10Ne²⁰, 10Ne²¹ and 10Ne²² are 90.92%, 0.26% and 8.82% respectively). A) 22.18 amu C) 20.18 amu B) 21.18 amu D) 22.20 amu

Q.55 Which one of the following pairs has the same electronic configuration as possessed by Neon (Ne-10)? A) Na⁺, Cl⁻ C) Na⁺, Mg²⁺

		/ -	
D)	V^+		
D)	N,	U	

D) Na+, F-

Q.56 If the volume of a gas collected at a temperature of 600 °C and pressure of 1.05×10^5 Nm⁻² is 60 dm³, what would be the volume of gas at STP ($P=1.01 \times 10^3 \text{ Nm}^{-2}$, T = 273 K)? A) 25 cm³ C) 100 cm³ B) 75 cm³ D) 51 cm³

Q.57 There are four orbitals s, p, d and f. Which order is correct with respect to the increasing energy of the orbitals?

A) 4s < 4p < 4d < 4f	
B) 4p < 4s < 4f < 4d	

C) 4s < 4f < 4p < 4d D) 4f < 4s < 4d < 4p



Page 8 of 20 Q.58 Which graph represents Boyle's law?

	A) P	PV=k C) 1/V
	B)	D)
Q.59	Which one of the following hydrogen bonds is s A) $N^{\delta^-} - H^{\delta^+} \cdots N^{\delta^-} - H^{\delta^+}$ B) $F^{\delta^-} - H^{\delta_+} \cdots F^{\delta^-} - H^{\delta_+}$	tronger than others? C) O^{δ^-} — H^{δ^+} O^{δ^-} — H^{δ^+} D) N^{δ^-} — H^{δ^+} O^{δ^-} — H^{δ^+}
Q.60	The half-life of N₂O₅ at 0 °C is 24 minutes. How 25% of its original concentration? A) 24 minutes B) 72 minutes	long will it take for sample of N ₂ O ₅ to decay to C) 120 minutes D) 48 minutes
Q.61	When the change in concentration is 6 x 10 ⁻⁴ m the rate of reaction will be A) 6×10^{-3} mol dm ⁻³ sec ⁻¹ B) 6×10^{-4} mol dm ⁻³ se ⁻¹	ol dm ⁻³ and time for that change is 10 seconds, C) 6×10^{-2} mol dm ⁻³ sec ⁻¹ D) 6×10^{-5} mol dm ⁻³ sec ⁻¹
Q.62	Which one of the following will have the smaller A) Al ⁺³ B) Si ⁺⁴	st radius? C) Mg ⁺² D) Na ⁺¹
Q.63	Keeping in view the size of atoms, which order if A) N > C B) P > Si	i s correct? C) Ar > Cl D) Li > Be
Q.64	On the basis of oxidizing power of halogens, where A $I_2 + 2CI^- \longrightarrow CI_2 + 2I^-$ B) $Br_2 + 2I^- \longrightarrow I_2 + 2Br^-$	ich reaction is possible? C) $Cl_2 + 2F^- \longrightarrow F_2 + 2Cl^-$ D) $I_2 + 2Br^- \longrightarrow Br_2 + 2I^-$
Q.65	Which one of the following gases is used as mix A) Oxygen and Nitrogen B) Nitrogen and Helium	t ure for breathing by sea divers? C) Helium and Oxygen D) Helium and Hydrogen
Q.66	[Ti(H₂O)₆]⁺³ transmits A) Yellow and Red light B) Yellow and Blue light	C) Red and white light D) Red and blue light
Q.67	Electronic configuration of Gold [Au79] is A) [Xe] $4f^{14}$, $5d^{10}$, $6s^1$ B) [Xe] $4f^{10}$, $5d^{10}$, $6s^2$	C) [Xe] 4f ¹⁴ , 5d ⁹ , 6s ² D) [Xe]4f ¹⁴ , 5d ¹⁰ , 6s ²
Q.68	About 80% of ammonia is used for the producti A) Explosives B) Fertilizers	on of C) Nylon D) Polymers

Urea is the most widely used nitrogen fertilizer in Pakistan. Its composition Is Q.69 A) NH₂CO C) $N_2H_4CO_2$ B) N₂H₅CO₂ D) N₂H₄CO

Q.70 During the manufacture of nitric acid, nitric oxide is oxidized to nitrogen dioxide. This reaction is given as:

> $2NO_{(g)} + O_{2(g)} \rightleftharpoons$ **2NO**_{2(g)} $\Delta H = -114 \text{ kJ/mol}$

According to Le Chatelier's Principle

A) Reaction must not be temperature dependent

- Q.71 What is the percentage of nitrogen in NH₃NO₃? A) 65% B) 35%
- The structural formula of 2,3,4 trimethylpentane is: Q.72





- Q.73 Which one of the following is a powerful electrophile used to attack on the electrons of benzene ring? C) Cl⁺
 - A) FeCl₂
 - B) FeCl₄-
- Q.74 Order of reactivity of alkenes with hydrogen halide is: A) HBr > HI > HCl C) HF > HI > HClD) HI > HBr > HCl B) HI > HBr > HF
- Q.75 The given three hydrocarbons are





D) C₁₂

Naphthalene

Anthracene C) Acyclic Hydrocarbons D) Heterocyclic hydrocarbons

A) Alicyclic hydrocarbons B) Aromatic hydrocarbons

The IUPAC name of the given compound is Q.76 CH_3

Benzene

H₃C-CH-CH₂-Cl

- A) 1-Chloro-2-methylpropane
- B) 1-Chloro-2-methylbutane

C) Isobutyl chloride

- D) 2-Methyl-3-chloropropane
- Which one of the following was used as one of the earliest antiseptic and disinfectant? Q.77 C) Ethanol
 - A) Phenol B) Ether

- D) Methanol

Q.78 Which one of the following is NOT able to denature the ethanol?

- A) Methanol
- B) Lactic acid

C) Pyridine D) Acetone



- C) Reaction must be carried out at low temperature
- B) Reaction must be carried out at room temperature D) Reaction must be carried out at high temperature
 - C) 20%

D) 58%

Page 10 of 20 Q.79 In the below reaction, the configuration of product is



B) Building protein

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D) Structural protein

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Page 12 of 20 Keeping in mind the electrode potential, which one of the following reactions is feasible? Q.100

A)	Zn+2 +	Cu	\longrightarrow	Cu^{+2}	+ Zn	
----	--------	----	-------------------	-----------	------	--

B) $Zn + MqSO_4 \longrightarrow ZnSO_4 + Mq$

C) Fe + CuSO₄
$$\longrightarrow$$
 FeSO₄ + Cu

D) Cd + MqSO₄ \longrightarrow CdSO₄ + Mq

Q.101 What is the correct relation between pH and pK?

	Acid]	$() n U = n K_2 $	Base
A) $p = p = p + i 0 g$	Base	C) $p = p = p = log$	Acid
	Acid]		Base
	Base	D) $p = p + a + log$	Acid

Q.102 Which one of the following is the correct presentation for Ksp?



Q.104 It is the duty of a teacher to _____ moral values in his students besides teaching. A) Tell C) Inculcate B) Record D) Suggest

Q.105 Many of the houses in Murree have basic A) Amenities B) Accuracy

Youngsters who indulge in love affairs are usually Q.106 in worldly manners. C) Adjured A) Adjoined B) Addled D) Adhesive

SPOT THE ERROR: In the following sentences, some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected. Fill the Circle corresponding to that letter under the segment in the MCQ Response From.

C) Affinity

D) Array

- He <u>picked up</u> one or two magazines and after <u>a hurried</u> glance <u>on</u> the contents carefully <u>replaced</u> them. 0.107 A) B) C) D)
- Q.108 His guests found it fun to watch him to make tea – mixing careful spoonful from different caddies. A) B) C) D)
- You have put your life in his hands many a times. Q.109 A) B) C) D)
- Chips, thinking it over a good many time, always added to himself that Kathie would have approved Q.110 A) B) C) and also have been amused. D)
- Q.111 But the <u>men ate their</u> supper <u>in</u> good appetites. A) B) C) D)



Q.112A common sense of failure is a mistaken ambition of the boys on the part of his parents.A)B)C)D)

	In each of the following question, Choose the CORRECT one and fill the C MCQ Response Form.	four alternative sentences are given. ircle corresponding to that letter in the
Q.113	A) Tourism is burgeoned over the last fifteen years.B) Tourism will burgeoned over the last fifteen years.	C) Tourism have burgeoned over the last fifteen years. D) Tourism has burgeoned over the last fifteen years.
Q.114	A) His remains were interred in the new cemetery.B) His remains were entered in the new cemetery.	C) His remains was interred in the new cemetery.D) His remains was entered in the new cemetery.
Q.115	A) They had died in the same day.B) They had died over the same day.	C) They had died on the same day. D) They had died of the same day.
Q.116	A) She had turned on the supper steaks when the teleB) She had turned over the supper steaks when the teleC) She had turned into the supper steaks when the teleD) She had turned in the supper steaks when the tele	ephone rang. elephone rang. elephone rang. phone rang.
Q.117	A) Empty of concord is the soul of wit.B) Empty of concord is the role of wit.	C) Empty of concord is the sole of wit. D) Empty of concord is the howl of wit.
Q.118	A) The cheery trees stand over the woodland ride.B) The cheery trees stand about the woodland ride.	C) The cheery trees stand beside the woodland ride. D) The cheery trees stand on the woodland ride.
Q.119	A) He made me to write the sum on the slip and to signB) He made me write the sum on/at the slip and to signC) He made me to write the sum on the slip and signD) He made me to write the sum in a slip and to sign	gn my name in a book. gn my name in a book. my name in a book. my name in a book.
Q.120	 A) I am looking forward to secure excellent marks in I B) I am looking forward to securing excellent marks in C) I am looking forward securing excellent marks in M D) I am looking forward secure excellent marks in MC 	MCAT. n MCAT. ICAT. IAT.
Q.121	A) The study of population growth indicates one of thB) The study of population growth indicate one of theC) The study of population growth indicates one of thD) The study of population growth indicates one of th	e greatest paradox of our time. greatest paradox of our time. e greatest paradoxes of our time. e greatest paradox in our time.
Q.122	 A) In North Africa, he barely escaped assassination at B) In North Africa, he barely escaped from assassination C) In North Africa, he barely escaped from assassination D) In North Africa, he barely escaped assassination at 	the hand of the governor of the province. Ion at the hands of the governor of the province. Ion at the hand of the governor of the province. It the hands of the governor of the province.
\Longrightarrow	In each of the following question, for	ur alternative meanings of a word are

given. You have to select the NEAREST CORRECT MEANING of the given word are and fill the appropriate Circle on the MCQ Response Form.

Q.123 EMPATHY

A) UnderstandingB) Animosity

C) Friendship D) Sympathy



Page 1	.4 of 20	
Q.124	FELICITY A) Boredom B) Business	C) Happiness D) Relaxation
Q.125	UNCANNY A) Exact B) Opposite	C) Good D) Strange
Q.126	VIRULENT A) Progressive B) Harmful	C) Healthy
Q.127	RAPT A) Trumpet B) Bewitched	C) Rapid D) Rash
Q.128	PEDAGOGY A) The study of pediatrics B) The study of teaching methods	C) The study of cultural heritage D) The study of pectoral muscle
Q.129	INDICTMENT A) Humiliation B) Offended	C) Accusation D) Invisible
Q.130	MITIGATION A) Alleviation B) Classification	C) Formidable D) Poisonous
Q.131	CONCERTED A) Strenuous B) Furious	C) Curious D) Precious
Q.132	ARCANE A) Mysterious B) Furious	C) Arid D) Clear
	BIOLO	DGY
Q.133	In response, β-cells produce release in blood plasma and tissue fluid. A) Cell-Mediated B) Hormonal	ce plasma cells that synthesize antibodies and C) Humoral D) Phototactic
Q.134	Passive immunity is used against: A) Malaria B) Typhoid	C) Dengue D) Tetanus
Q.135	B-lymphocytes are named due to their relatio A) Blood B) Bursa of Fabricius	nship with: C) Bone Marrow D) Bile Duct
Q.136	In light independent stage of photosynthes unstable 6-carbon intermediate.	is, the CO ₂ combines with to form an
Q.137	B) Hexose sugar In glycolysis, glycerate-1,3-bisphosphate is	D) Glyceraldehyde-9-phosphate converted into glycerate-3-phosphate by losing
	A) 3 B) 2	C) 1 D) 4

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Q.138	Malate is oxidized by to oxaloace	tate in Krebs's Cycle.
-	A) ATP	C) NAD
	B) NADP	D) FAD
Q.139	In electron transport chain, the electrons f	rom NADH and FADH ₂ are passed to;
-	A) Cytochrome a	C) Co-enzyme c
	B) Cytochrome a ₃	D) Co-enzyme Q
Q.140	Carriers of the respiratory chain are locate	d on:
-	A) Matrix of mitochondria	C) Inner membrane of mitochondria
	B) Outer membrane of mitochondria	D) Cytoplasmic matrix
	, ,	, , ,
Q.141	In cystic fibrosis, liposomes-microscopic v	esicles are sued which are coated with:
-	A) Healthy Gene	C) Protein
	B) Chromosome	D) Carbohydrate
Q.142	The DNA formed by the reverse transcript	ion is called:
	A) rDNA	C) cDNA
	B) dDNA	D) DNA
	, ,	· ·
Q.143	Bacterial cells take up recombinant plasm	ids when they are treated with:
-	A) CaCl ₂	C) KCl
	B) NaCl	D) NaOH
	,	,
Q.144	Which one of the following is made up of	radioactively labelled nucleotides?
-	A) Phage DNA	C) Recombinant DNA
	B) Genomic Library	D) Gene Probe
Q.145	A technique in transgenic animals in whic	h desired gene is inserted into the eggs of animal is
-	called:	
	A) Embryonic Stem Cell mediated Transfer	C) Retro-virus mediated gene Transfer
	B) Microinjection	D) Virus vectors
Q.146	Ozone is a layer of atmosphere extending	g from km above earth and absorbs
	ultraviolent radiations.	
	A) 10-50	C) 5-30
	B) 50-60	D) 10-80
Q.147	Light rays from the sun are absorbed by C	O_2 and re-radiate as radiations.
	A) Ultraviolent	C) Infra-Red
	B) Indigo	D) Green
Q.148	The gases which are produced by burning	of fossils fuels and are responsible for acid rain are:
	A) CFCs	C) HCl and Oxides of Nitrogen
	B) CO ₂ and CO	D) SO ₂ and Oxides of Nitrogen
Q.149	During successions, the first organisms th	at develop on bare rock are:
	A) Lichens	C) Moss
	B) Shrubs	D) Herbs
Q.150	Trophic level of a herbivore in given food-	web is:
	Fox 0	
	T X	
		Politik
	Bettle R	
	× 1	
	 G 	rass /



C) 4 D) 2

A) 1 B) 3

Page 16 Q.151	of 20 During maternal mitosis, non-disjunction of	f autosomal chromosome pair results in the
	A) Klinefelter's Syndrome B) Down's Syndrome	n: C) Turner's Syndrome D) Jacob's Syndrome
Q.152	Typical symptoms like enlarged breasts and sn A) Down's Syndrome B) Turner's Syndrome	nall testis in male are attributed to: C) Klinefelter's Syndrome D) Phenylketonuria
Q.153	Fluid mosaic model of plasma membrane state layer. A) Galactose B) Phospholipids	es that protein molecules float in a fluid C) Glucose D) Carbohydrate
Q.154	How many triplets of microtubules are present A) Ten B) Eight	t in centriole? C) Nine D) Seven
Q.155	Turner's syndrome is characterized by having: A) Trisomy 21 B) 44 + XXY	C) Trisomy 18 D) 44 + XO
Q.156	Which one of the following cell structure is inv A) Endoplasmic Reticulum B) Golgi Complex	olved in the synthesis of lipids? C) Centriole D) Mitochondria
Q.157	Monosaccharides are major components of: A) DNA, ATP, Ribulose bisphosphate and Cysteine B) DNA, NAD and Insulin	C) DNA, NADP, ATP and Ribulose bisphosphate D) DNA, RNA and Myosin
Q.158	Blood group antigen contains: A) Glycoproteins B) Phospholipids	C) Glycolipids D) Sphingolipids
Q.159	Myosin is a type of protein. A) Intermediate B) Simple	C) Globular D) Fibrous
Q.160	Which one of the following is an example of ur A) Butyric Acid B) Oleic Acid	Asaturated fatty acid? C) Palmitic Acid D) Acetic Acid
Q.161	Number of base pairs in one turn of DNA is: A) 10 B) 2	C) 34 D) 54
Q.162	The lymph vessel of villi is called: A) Epithelium B) Afferent lymph vessel	C) Adrenals D) Lacteal
Q.163	Right atrium is separated from right ventricle A) Bicuspid Valve B) Semilunar Valve	by: C) Tricuspid Valve D) Interatrial Septum
Q.164	The flaps of tricuspid valves are attached to m A) Smooth Muscles B) Papillary Muscles	uscular extensions of right ventricle known as: C) Intercostal Muscles D) Skeletal Muscles
Q.165	One complete heart beat consists of one systo A) 0.8 sec B) 0.2 sec	le and one diastole and lasts for about: C) 0.4 sec D) 0.5 sec
Q.166	The heart beat cycle starts when electric impu A) AV Node B) SV Node	Ises are generated from; C) SA Node D) PQ Node TOPStudy

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Q.167	About 70-85% CO ₂ in blood is carried:	
	A) As carboxylase myoglobin	C) Freely as CO ₂
	B) With proteins in plasma	D) As bicarbonate
Q.168	Those nephrons which are present along t	he border of the cortex and medulla are called:
	A) Juxtamedullary nephrons	C) Internal nephrons
	B) Cortical nephrons	D) Outer nephrons
Q.169	When water is in short supply, increased v	water retention occurs through the:
	A) Cortical nephrons	C) Juxtamedullary nephrons
	B) Proximal Convoluted Tubule	D) The tissue of cortex
Q.170	In nephrons, counter-current multiplier o	ccurs at:
	A) Loop of Henle	C) Bowman's Capsule
	B) Collecting Duct	D) Glomerulus
Q.171	Ascending loop of Henle does not allow ou	Itflow of:
	A) Na ⁺ ions	C) Cl ⁻ ions
	B) K ⁺ ions	D) Water
Q.172	A larger quantity of dilute urine is produce deficiency of:	ced in diabetes insipidus. This disease is due to the
	A) Antidiuretic Hormone	C) Thyroxine
	B) Aldosterone	D) Cortisol
Q.173	Water and sodium ions are reabsorbed in:	
	A) Urinary Bladder and Urethra	C) Adrenal Cortex
	B) Ureter	D) Proximal Convoluted Tubule & Collecting Duct
Q.174	Which disease is responsible for dementia	(memory loss)?
-	A) Parkinson's Disease	C) Epilepsy
	B) Alzheimer's Disease	D) Grave's Disease
0.175	Neurotransmitter secreted at synapse out	side the central nervous system is:
-	A) Dopamine	C) Androgen
	B) Polypeptide	D) Acetylcholine
0.176		
Q.176	through:	mode of Ranvier to another in myelinated neurons is
	A) Hyperpolarization	C) Depolarization
	B) Resting Membrane Potential	D) Saltatory Conduction
0.177	In the following diagram of action notanti	al in a nouron 'y' denister
Q.177	In the following diagram of action potenti	
	\sim	\wedge
	Membrane +50 –	/
	Potential 0 –	<u> </u> \
	(mV) -50 -	$\mathbf{x} \rightarrow \mathbf{/} \mathbf{\rangle}$
	-100 -	
	Ťi	me (milliseconds)
	A) Depatavisation	C) Repelorization
	A) Depotatization	
	D) POIARIZATION	U) Hyperpolarization
Q.178	In human testis, which structure is respon	nsible for carrying sperm from inside the testis?
	A) Seminiferous tubules	C) Seminal Vesicles
	B) Urinogenital duct	D) Vasa efferentia
Q.179	In which part of female reproductive systemeters	em fertilization takes place?
	A) Proximal part of oviduct	C) Placenta
	B) Uterus	D) Vagina

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Q.130 In remaise, r>H stimulates the ovary to produce: A) Progesterine C) Destrogen B) Lactin D) Dxytocin Q.131 Syphilis, sexually transmitted disease is caused by: A) HW D) Treponema pallidum D) Type '2' virus Q.132 In which phase of human female menstrual cycle, endometrium prepares for the implant of embryo? A) Proliferative phase D) Secretory phase B) Menstrual phase D) Outation phase Q.133 The total number of cervical and thoracic vertebrate in human vertebral column is: A) 7 C) 14 B) 19 D) 33 Q.184 A sarcomere is the region of a myofibril between two successive: A) M-lines D) Trabules Q.185 The sarcolemma of muscle fibre folds inwards and forms a system of tubes which runs thr the sarcoplasm called: A) M-bines D) Transverse tubules Q.186 According to sliding filament theory, when muscle fibers are stimulated by nervous syst which of the following changes occurs? A) L-bands shorten C) Z-lines move further apart B) H-zone becomes more visible D) A-bands shorten Q.186 According to sliding filament theory, when muscle fibers are stimulated by nervous syst which of a fafigue <	Page 18	8 of 20	
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C/ Huldpic Alleles	Q.194	A) Polygenes	C) Multiple Alleles
B) Multiple genes D) Multiple Mutation		B) Multiple genes	D) Multiple Mutation
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Q.195	Which molecular structure of enzyme is es	sential for activity of enzyme?
	A) Primary Structure	C) Secondary Structure
	B) Quaternary Structure	D) Tertiary Structure
Q.196	Which one of the following edible products	is widely pasteurized?
	A) Soft drinks	C) Milk
	B) Mango squash	D) Orange Juice
Q.197	Ribosomes are tiny organisms, which are in	nvolved in the synthesis of:
	A) Protein	C) Nucleus
	B) RNA	D) Nuclosome
Q.198	Which organelle is bounded by two membr	anes?
	A) Ribosome	C) Lysosome
	B) Mitochondria	D) Nucleolus
Q.199	At the beginning of nuclear division, the centrioles that migrate to opposite poles and	e number of microtubule triplets in two pairs of re:
	A) 9	C) 108
	B) 18	D) 36
Q.200	The disease in which an individual has extr	a sex chromosome (44 + XXY) is known as:
	A) Down's syndrome	C) Klinefelter's syndrome
	B) Tuner's syndrome	D) Jacob's syndrome
Q.201	Over-secretion of cortical hormone causes	a disease called;
	A) Cushing's Disease	C) Hypoglycemia
	B) Diabetes Mellitus	D) Addison's Disease
Q.202	Ejection of milk from mammary glands is	s under the control of which one of the following
	hormones?	
	A) Androgen	C) Progesterone
	B) Oxytocin	D) Estrogen
Q.203	Granulocytes are:	
	A) Monocytes, Eosinophils, Basophils	C) Neurophils, Eosinophils, Basophils
	B) Basophils, Macrophages, Neurophils	D) Monocytes, Macrophages, Basophils
Q.204	Response of body against the transplanted	organ is:
	A) Homeostatic Response	C) Primary Response
	B) Behavioral Response	D) Cell-mediated Response
Q.205	Some enzymes require helper which is no	on-protein part for its efficient functioning that is
	called:	() Prosthotic group
	A) Accelerator	C) Prosineuc group
	B) Cofactor	D) Apoenzyme
Q.206	Pepsin, protein digesting enzymes, sets be	st pH:
	A) 5.00	C) 2.00
	B) 4.50	D) 6.00
Q.207	Which one of the following is an example of	of competitive inhibitor?
	A) GIUCOSE	
	B) Fumerate	D) Melonate
Q.208	HIV is classified as:	
	A) Bacteriophage	C) Retrovirus
	B) Oncovirus	D) Icosahedral virus
Q.209	Cyanobacteria are:	
	A) Photoautotrophic bacteria	C) Saprotrophic bacteria
	B) Chemosynthetic bacteria	D) Parasitic bacteria

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Q.210	During favourable conditions, certain bacteria	produces:
	A) Ribosomes	C) Mitochondria
	B) Plasmids	D) Spores
Q.211	In rhizopus, zygote forms temporary, dormant,	thick-walled resistant structure called:
•	A) Zygospore	C) Sporangia
	B) Spore	D) Hydra
0.212	is a triploblastic organism.	
Z	A) Jelly Fish	C) Tapeworm
	B) Sea Anemone	D) Corals
0.213	In arthropods, the body cavity is in the form of	:
-	A) Coelem	C) Psedocoelem
	B) Haemocoel	D) Enteron
Q.214	is a good example of polymorphi	sm.
-	A) Hydra	C) Obelia
	B) Starfish	D) Equplectella
Q.215	Name common gut roundworm parasite of hum	nan and pigs.
	A) Aascaris lumberocoides	C) Pheretima posthuma
	B) Lumbericus terresaris	D) Hirudo Medicinalis
Q.216	is also called liver fluke.	
	A) Dugesia	C) Fasciola
	B) Taenia	D) Coral
Q.217	Oxyntic cells in stomach produces:	
	A) Pepsin	C) Gastrin
	B) Pepsinogen	D) HCl
Q.218	The hormone which inhibits the secretion of pa	ncreatic juice is:
	A) Secretin	C) Thyroxine
	B) Gastrin	D) Parathormone
Q.219	Trypsinogen is activated to trypsin by:	
-	A) HCl	C) Mucus
	B) Enterokinase	D) Gastrin
Q.220	The emulsification of fats is the role of:	
	A) Saliva	C) Gastrin
	B) Pancreatic juice	D) Bile
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UNIVERSITY OF HEALTH SCIENCES, LAHORE **Entrance Test - 2015**

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

The answer key to the questions of Entrance Test 2015 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 guestion carries zero marks. Complaints/ queries will be dealt only after the declaration of official result of the Entrance Test by the is regard will be entertained before that. Univers

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6	Α	
7	Α	
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9	C	
10	В	
11	C	
12	A	
13	В	
14	D	
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17	В	
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112	D	
113	D	
114	А	
115	С	
116	В	
117	А	
118	В	
119	С	
120	В	
121	С	
122	В	
123	D	
124	С	
125	D	
126	В	
127	В	
128	В	
129	С	
130	A	
131	A	L
132	A	
133	С	
134	D	
135	В	
136	А	T

	-
Q.No.	Ans
138	C
139	D
140	С
141	Α
142	С
143	А
144	D
145	В
146	Α
147	С
148	D
149	Α
150	D
151	B
152	6
152	B
154	C
155	
156	B
157	<u>с</u>
158	<u>ر</u>
150	
160	B
161	Δ
162	
163	C
164	B
165	Δ
166	<u>с</u>
167	
168	Δ
169	
170	<u>ر</u>
171	
172	Δ
172	
174	B
175	
176	D
177	Δ
178	D
179	Δ
180	C
181	B
182	C
183	B
100	0

Q.No.	Ans
184	В
185	D
186	Α
187	Α
188	D
189	Α
190	С
191	В
192	С
193	D
194	С
195	D
196	С
197	Α
198	В
199	D
200	С
201	Α
202	В
203	С
204	D
205	В
206	С
207	D
208	С
209	Α
210	D
211	Α
212	С
213	В
214	С
215	Α
216	С
217	D
218	Α
219	В
220	D

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