## **University of Health Sciences, Lahore**



Total MCQs: 220 Max. Marks: 1100

## **ENTRANCE TEST - 2009**

For F.Sc. Students Only 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**

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

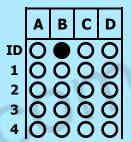
A) White.

C) Pink.

B) Blue.

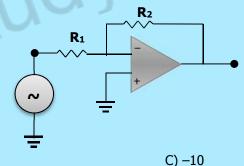
D) Green.

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).



## **PHYSICS**

Q.1 If  $R_1=10~k\Omega$  and  $R_2=100~k\Omega$  then the gain of op-amplifier as inverting amplifier is:



A) -1 B) 10

- D) 1
- Q.2 If inputs A = 1, B = 0 and output X = 1, then it corresponds to the operation of a:
  - A) AND Gate

C) XNOR Gate

B) NAND Gate

- D) NOR Gate
- Q.3 The value of Stefan's Boltzmann Constant is:
  - A) 4.28 x 10<sup>-7</sup> Wm<sup>-2</sup>K<sup>-4</sup>

C) 3.62 x 10<sup>-4</sup> Wm<sup>-2</sup>K<sup>-4</sup>

B) 4.28 x 10<sup>-4</sup> Wm<sup>-2</sup>K<sup>-4</sup>

- D) 5.67 x 10<sup>-5</sup> Wm<sup>-2</sup>K<sup>-4</sup>
- Q.4 Einstein's photoelectric equation is given by:
  - A)  $hf = \phi = \frac{1}{2} mv^2$

C)  $E = hc^2$ 

B)  $E = mc^2$ 

D)  $hf = \frac{1}{2} mv^2$ 



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_		L
Q.5	In Compton Effect, the value	of $\frac{n}{}$ is given by
£		m.c is giron a,

### If a particle of mass 5.0 mg moves with the speed of 8.0 m/sec, then the de-Broglie's **Q.6** wavelength will be:

#### LASER is a device which can produce: **Q.7**

#### **Q.8** A crack allows greater amount of X-rays to pass, which appears on photographic film as:

#### **Q.9** The emission of $\gamma$ -radiations from the nucleus is generally represented by the equation:

A) 
$$^{A}_{7}X \longrightarrow ^{A}_{7}X^{\bullet} + \gamma$$
-radiations

C) 
$$_{Z}^{A}X^{\bullet}$$
  $\longrightarrow$   $_{Z-1}^{A}X$  +  $\gamma$ -radiations

B) 
$$_{Z}^{A}X^{\bullet} \longrightarrow _{Z}^{A}X + \beta$$
-particles

D) 
$$_{z}^{A}x^{\bullet} \longrightarrow _{z}^{A}X + \gamma$$
-radiations

#### For intermediate energy of radiations, the dormant process is: Q.10

#### Q.11 The dimensions of gravitational constant "G" are:

B) 
$$[M^2L^{-2}T^{-1}]$$

D) 
$$[M^{-1}L^3T^{-1}]$$

### Unit vector in the direction of vector $2\hat{i} - 4\hat{j}$ will be: Q.13

A) 
$$\frac{2\hat{i}-4\hat{j}}{\sqrt{6}}$$

C) 
$$\frac{\hat{i}-2\hat{j}}{\sqrt{5}}$$

B) 
$$\frac{4\hat{i} - 2\hat{j}}{\sqrt{10}}$$

D) 
$$\frac{\hat{i}-2\hat{j}}{\sqrt{7}}$$

### If the force of magnitude 8 N acts on a body in direction making an angle 30, its X and Y Q.14 components will be:

A) 
$$F_x = 3\sqrt{3} \ F_y = 4$$

C) 
$$F_x = 4\sqrt{3} F_y = 8$$

B) 
$$F_x = 4\sqrt{3} F_y = 4$$

D) 
$$F_x = 8 \ F_y = 4\sqrt{3}$$

#### Two waves of slightly different frequencies and travelling in the same direction lead to: Q.15

D) Both B and C

#### Q.16 What is it that we use to calculate the speeds of distant stars and galaxies?

A) Doppler Effect

C) Beats

B) Interference

D) All of the above

### Q.17 In Young's Double Slit Experiment, if the distance between slits and screen is doubled, then fringe spacing becomes:

A) Zero

C) Doubles of the original value

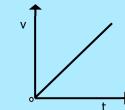
B) One

D) Half of the original value

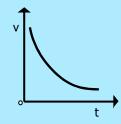


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Q.18	<del>_</del>	es pass across the field of view when its movable	
	mirror is displaced through 0.233 mm using the equation $I = m\frac{\lambda}{2}$ the wavelength of light used		
	is:	2	
	A) 588 nm	C) 348 nm	
	B) 620 nm	D) 400 nm	
Q.19	In Michelson's Experiment, the formula to calc		
	A) $c = 2 \text{ fd}$	C) $c = \frac{16 f}{d}$	
		d d	
	B) $c = \frac{2\pi f}{d}$	D) c = 16 fd	
Q.20	The information received at the other end of	a fibre can be inaccurate due to of the	
	light signal.	C) Interests	
	A) Longer wavelengths B) Frequency	C) Intensity D) Dispersion or Spreading	
	b) Hequency	D) Dispersion of Spreading	
Q.21	The pressure on the other sides and everywhe	ere inside the vessel will be according to the:	
	A) Pascal's Law	C) Boyle's Law	
	B) Hook's Law	D) Charles's Law	
Q.22	The value of universal; Gas Constant 'R' is;		
Q.22	A) 8.314 Jmol <sup>-2</sup> K <sup>-1</sup>	C) 1.38 Jmol <sup>-1</sup> K <sup>-1</sup>	
	B) 1.38 Jmol <sup>-1</sup> K <sup>-2</sup>	D) 8.314 Jmol <sup>-1</sup> K <sup>-1</sup>	
Q.23	For adiabatic process, the First Law of Thermo		
	A) $W = \Delta U + Q$ B) $Q = -W$	C) $Q = W$ D) $W = -\Delta U$	
	b) Q - W	b) w = 20	
Q.24	The entropy of the universe always:		
	A) Decreases	C) Remains the same	
	B) Increases	D) Both A and B	
Q.25	The work done in moving a unit positive char	ge from one point to another against the electric	
Q.23	field is a measure of:	ge from one point to unother against the electric	
	A) Capacitance	C) Intensity of electric field	
	B) Potential difference between two points	D) Resistance between two points	
Q.26	In Millikan's Method, the radius of droplet can	he calculated by	
Q.20	In Millikan's Method, the radius of droplet can A) $r = \sqrt{\frac{qv_t}{2\rho g}}$ B) $r^2 = \frac{9\eta v_t}{\rho g}$	•	
	A) $r = \sqrt{\frac{qv_t}{2cr}}$	C) $r^2 = \frac{9\eta v_t}{2\rho g}$	
	√ <sup>2pg</sup>		
	B) $r^2 = \frac{9\eta v_t}{v_t}$	D) $r = \frac{9\eta v_t}{2\rho g}$	
	ρg	2ρg	
	The scalar product of $\hat{i}$ and $\hat{k}$ is:		
Q.27	A) Zero	C) 1	
	B) 90°	D) -1	
Q.28	If the body is rotating with uniform angular vo		
	A) Zero	C) Maximum	
	B) Clockwise	D) Remains the same	
Q.29	Speed of light, radio waves and microwaves in		
	A) 3 x 10 <sup>5</sup> ms <sup>-1</sup> B) 3 x 10 <sup>3</sup> ms <sup>-1</sup>	C) 3 x 10 <sup>6</sup> ms <sup>-1</sup> D) 3 x 10 <sup>8</sup> ms <sup>-1</sup>	
	D) 2 X IO, 1112	O) 3 X 10 IIIS	
Q.30		ms <sup>-1</sup> . After a time of 50 secs its velocity becomes	
	1.5 kms <sup>-1</sup> . Its acceleration will be:	c) 22 1	
	A) 30 ms <sup>-1</sup>	C) 20 ms <sup>-1</sup>	
	B) 40 ms <sup>-1</sup>	D) 10 ms <sup>-1</sup>	

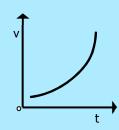
### 0.31 When a car moves with constant acceleration, the velocity-time graph is a:



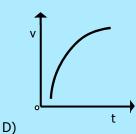
A)



B)



C)



0.32 In elastic collision, when a massive body collides with light body at conditions  $m_1 >> m_2$  and  $v_2$ = 0 ms<sup>-1</sup>, then the change in velocity will be written as:

A) 
$$v_1' \approx -v_1$$
;  $v_2' \approx v_1$ 

B) 
$$v_1' \approx -v_1$$
;  $v_2' \approx v_1$ 

C) 
$$v_1' \approx v_1$$
;  $v_2' \approx 2v_1$ 

D) 
$$v_1' \approx -v_1$$
;  $v_2' \approx 0$ 

Q.33 If a certain force acts on an object and changes its kinetic energy from 65 J to 130 J, then work done by the force will be:

Q.34 A bullet train is lifted above the rails due to magnetic effect, thus friction is reduced to minimum and speed can be enhanced up to:

Q.35 In a certain circuit, if the transistor has a collector current of 10 mA and base current of 50 µA, then the current gain of the transistor is:

A signal that is applied at the inverting input terminal of an op-amplifier undergo amplification, **Q.36** at the output terminal with a phase shift of:

Q.37 Solar energy at normal incidence outside the earth's atmosphere is about:

- D) 2.0 kWm<sup>-2</sup>
- Linear velocity or tangential velocity of any particle moving in a circular path of radius 2 m with Q.38 angular velocity 8 rads-1 will be:

What is torque 'T' in a circular motion? Q.39

A) 
$$T = mr^2\pi$$

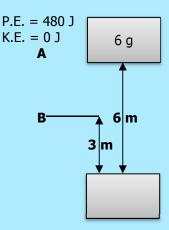
C) 
$$\tau = mr\alpha$$

B) 
$$\tau = mr^2\alpha$$

D) 
$$\tau = mr^2/\alpha$$

Q.40 If the mass attached with a spring becomes four times, the time period of vibration becomes:

A body of mass 6 g falls under action of gravity. At initial position 'A' its P.E. is 480 J and K.E. is Q.41 0 J. During its downward journey at point 'B' its energies will be ( $g = 10 \text{ ms}^{-2}$ ):



- A) P.E. = 300 J and K.E. = 180 J
- B) P.E. = 180 J and K.E. = 300 J

- C) P.E. = 230 J and K.E. = 250 J
- D) P.E. = 250 J and K.E. = 230 J
- A tiny droplet of oil of density 'p' and radius 'r' falls through air under force of gravity. If viscosity Q.42 of air is  $\eta'$ , the terminal velocity acquired by the oil drop is given by:

  - B)  $v_t = \frac{9\eta r^2 \rho}{4\sigma}$

- D)  $v_t = \frac{9\eta r^2 \rho}{2\sigma}$
- Q.43 Torricelli's theorem be written as:
  - A)  $v_2 = \sqrt{2g (h_1 h_2)}$ B)  $v_2 = \sqrt{g (h_2 h_1)}$

- C)  $v_2 = \sqrt{2g (h_2 h_1)}$ D)  $v_2 = \sqrt{g (h_1 h_2)}$

frequency, the artificial gravity like earth is

- When the spaceship rotates with Q.44 produced to inhabitants of the ship:
  - C)  $\frac{1}{2\pi} \sqrt{\frac{R}{g}}$ Α) 2π D)  $\frac{1}{2\pi} \sqrt{\frac{R}{q}}$

  - In a microwave oven, the wave produced has a wavelength of 12 cm at a frequency of:
  - A) 2452 Hz
  - B) 2456 Hz

- C) 2455 Hz
- D) 2450 Hz
- Q.46 Speed of the waves is equal to:
  - A) fx

Q.45

- B)  $\frac{\lambda}{T}$

- C) Both A and B
- D)  $\lambda T$
- A particle carrying charge of 2e falls through a potential difference of 3.0 V. Calculate the energy Q.47 required by it:
  - A) 9.6 x 10<sup>-19</sup> J
  - B) 9.1 x 10<sup>-19</sup> J

- C) 1.6 x 10<sup>-19</sup> J
- D) 6.0 x 10<sup>-19</sup> J
- Q.48 The deviation of I-V graph from the straight line is due to:
  - A) Decrease in temperature and decrease in resistance
  - B) Increase in temperature and increase in resistance
  - C) Decrease in temperature and increase in resistance
  - D) Increase in temperature and decrease in resistance

Page 6		
Q.49	The fractional change in resistance per Kelvin	is known as:  C) Linear coefficient of expansion
	A) Temperature coefficient of resistance B) Thermal coefficient	D) Volumetric coefficient of expansion
	b) memarecement	b) volumetre coefficient of expansion
Q.50	The energy supplied by the cell to the charge of	carriers is derived from the conversion of:
_	A) Heat energy into Electrical energy	C) Solar energy into Electrical energy
	B) Chemical energy into Electrical energy	D) Mechanical energy into Electrical energy
Q.51	Force experienced by a moving change in a ma	
	A) $\mathbf{F} = \mathbf{B}\mathbf{A} \cos\Theta$ B) $\mathbf{F} = \mu_0 \mathbf{N}\mathbf{I}$	C) <b>F</b> = q ( <b>v</b> x <b>B</b> ) D) <b>F</b> = I ( <b>L</b> x <b>B</b> )
	b) F = μ <sub>0</sub> MI	D) F = 1 ( <b>L</b> X <b>B</b> )
Q.52	The value of permeability of free space $\mu_0$ is:	
•	A) $4\pi \times 10^{-7} \text{ WbA}^{-1}\text{m}^{-1}$	C) 4π x 10 <sup>-7</sup> WbA <sup>-2</sup> m <sup>-1</sup>
	B) $4\pi \times 10^2 \text{ WbA}^{-2}\text{m}^{-2}$	D) $4\pi \times 10^2 \text{ WbA}^{-1}\text{m}^{-2}$
Q.53		ss a Galvanometer of 20 $\Omega$ resistance which gives
	full scale deflection with 2.0 A current, so as to	
	A) 5 Ω B) 2 Ω	C) 3 Ω D) 4 Ω
	D) 2 12	$D$ ) $\exists \Omega$
Q.54	The current measuring part of the Avometer co	onsists of number of low resistances connected:
_	A) At an angle of 180° with the galvanometer	C) At an angle of 45° with the galvanometer
	B) Parallel with the galvanometer	D) Perpendicular to the galvanometer
Q.55		with velocity of two meter per second (2 m/sec)
	in the direction of two Tesla magnetic field. Th	e force that will act on it will be:  C) 8 N
	A) 2 N B) Zero	D) 4 N
	<i>b)</i> 2010	b) TR
Q.56	We have two coils placed close to each other	r. When we switch on the battery connected to
		ct of rheostat at fixed position, the reading of
	Galvanometer:	
	A) First increases and then becomes zero	
	<ul><li>B) First increases and then becomes constant at som</li><li>C) Increases with the passage of time</li></ul>	ie value
	D) Remains zero	
	b) Remains zero	
Q.57	Power losses in a transformer can be minimize	ed:
_	A) By increasing turn ratio	
	B) By decreasing turn ratio	
	C) By stopping the flow of Eddy currents	
	D) Using material of the core whose hysteresis area	is large
Q.58	In P-I Series circuit the phase difference bets	ween applied voltage and current is given by the
Q.30	angle θ which is:	ween applied voltage and current is given by the
		_, _ , ω
	A) $\Theta = \tan^{-1} \frac{LR}{\omega}$	C) $\Theta = \tan^{-1} \frac{\omega}{g}$
	B) $\Theta = \tan^{-1} \omega LR$	D) $\Theta = \tan^{-1} \frac{\omega R}{I}$
	b) o tan were	L
Q.59	Frequency of L-C circuit will resonate under th	e driving action of the antenna by angular value
Q.39	of:	le driving action of the antenna by angular value
	A) Capacitance	C) Inductance
	B) Impedance	D) Resistance
Q.60	To convert the Si crystal into p-type semi-cond	
	A) Trivalent Element	C) Fourth Group Element
	B) Second Group Element	D) Pentavalent Element



## **CHEMISTRY**

## Q.61 Which of the following is an exothermic reaction?

- A)  $H^{+}_{(aq)} + OH^{-}_{(aq)} \longrightarrow H_{2}O_{(l)}$
- C)  $\frac{1}{2}$  H<sub>2(g)</sub>  $\longrightarrow$  H<sub>(g)</sub>

B)  $Na_{(g)}$   $\longrightarrow$   $Na^{+}_{(g)} + 1e^{-}$ 

D)  $\frac{1}{2}$  Cl<sub>2(g)</sub>  $\longrightarrow$  Cl<sub>(g)</sub>

## Q.62 The rate equation determined experimentally for this reaction:

$$(CH_3)_3-C-Br+H_2O \longrightarrow (CH_3)_3-C-OH+HBr$$

Is, Rate =  $k[(CH_3)_3CBr]$ 

Hence it is which of the follwing?

A) Fractional Order

C) First Order

B) Pseudo First Order

D) Second Order

## Q.63 Equilibrium constant K<sub>c</sub> for

## Can be written as follows:

A) 
$$K_c = \frac{[H^+]}{[H_2O][OH^-]}$$

C) 
$$K_c = \frac{[OH^{-}][H^{+}]}{[H_2O]}$$

B) 
$$K_c = \frac{[OH^-]}{[H^+][OH^-]}$$

D) 
$$K_c = \frac{[H_2O]}{[H^+][OH^-]}$$

## Q.64 The protonation of carboxylic acid is:

## Q.65 Each molecule of haemoglobin is made up of nearly:

A) 11000 atoms

C) 10000 atoms

B) 6600 atoms

D) 6800 atoms

## Q.66 A limiting reactant is the one which:

- A) Is mostly a cheaper substance and taken in larger quantity
- B) Is consumed earlier and controls the amount of product formed in a chemical reaction
- C) Gives greatest number of moles of products
- D) Is left behind after the completion of reaction

## Q.67 During isotopic analysis, the pressure of the vapours of the ions maintained in the ionization chamber of mass spectrometer is:

A) Around 10<sup>-7</sup> torr

C) 1 torr

B) Around 10<sup>-3</sup> torr

D) 10<sup>-7</sup> torr

## Q.68 The acid which can be purified by the sublimation is:

A) Acetic Acid

C) Oxalic Acid

B) Benzoic Acid

D) Citric Acid

## Q.69 Paper chromatography is used for:

A) Elemental Analysis

C) Qualitative Analysis

B) Industrial Purification

D) Structural Analysis

## Q.70 In the process of respiration there is application of:

A) Dalton's Law

C) Boyle's Law

C) Charles's Law

D) Graham's Law

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### The formula of acrylonitrile is: Q.71

A) CH<sub>3</sub>=CH—CN

C) CH<sub>3</sub>—CH<sub>2</sub>—CN

B) CH<sub>3</sub>—CH<sub>2</sub>—CH<sub>2</sub>—CN

D) CH3-CN

#### During nitration of benzene the active nitrating agent is: Q.72

D) NO<sub>3</sub>

B) HNO<sub>2</sub>

D) NO<sub>2</sub><sup>+</sup>

#### Q.73 Which compound is the most reactive one?

A) Ethyne

C) Benzene

B) Ethane

D) Ethene

### Q.74 Grignard reagents are prepared by the reaction of magnesium metal with alkyl halides in the presence of:

A) Dry Ether

C) Alcohol

B) CS<sub>2</sub>

D) CCl<sub>4</sub>

#### Q.75 When n-butyl magnesium iodide is treated with water, the product is:

A) n-butane

C) Propane

B) Iso-butane

D) Alcohol

Q.76 CO + 2H<sub>2</sub> 
$$\xrightarrow{X}$$
 CH<sub>3</sub>OH

## X and Y are:

- A) ZnO + Al<sub>2</sub>O<sub>3</sub> and 450 °C: 200 atm
- C)  $Al_2O_3 + Cr_2O_3$  and 200 °C: 200 atm
- B) ZnO + Cr<sub>2</sub>O<sub>3</sub> and 450 °C: 200 atm
- D) ZnO + Cr<sub>2</sub>O<sub>3</sub> and 450 °C: 200 atm

#### Q.77 Phenol reacts with concentrated H<sub>2</sub>SO<sub>4</sub> to give:

- A) ortho hydroxy benzene sulphonic acid
- C) ortho and para hydroxy benzene sulphonic acid
- B) meta hydroxy benzene sulphonic acid
- D) para hydroxy benzene sulphonic acid

### Phenol can be distinguished from alcohol by adding: Q.78

A) Br<sub>2</sub>/H2O B) Cl<sub>2</sub>/H2O

C) FeSO<sub>4</sub>

D) FeCl<sub>3</sub>

#### Q.79 In the conversion of ethylene into acetaldehyde, cupric chloride acts as:

A) Initiator

C) Catalyst

B) Promoter

D) Reactant

#### Q.80 When acetone is heated in the presence of K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>/H<sub>2</sub>SO<sub>4</sub>, the products formed are;

A) Maleic Acid and Fumaric Acid

C) Formic Acid and Oxalic Acid

B) Acetic Acid and Formic Acid

D) Oxalic Acid and Acetic Acid

#### Q.81 Which acid is used in the manufacture of plastics?

A) Carbolic Acid

C) Carbonic Acid

B) Acetic Acid

D) Oxalic Acid

#### Q.82 Which of the following compounds will react with Tollen's Reagent?

## Q.83 In conjugated protein molecules, the protein is attached or conjugated to some non-protein group which are called:

A) Prosthetic Group

C) Hydrogen Bonding

C) Aldehyde Group

D) Peptide Linkage

#### Q.84 Micronutrients are required in quantity ranging from:

A) 6 - 200 g per acre

C) 4 - 40 g per acre

B) 6 – 200 kg per acre

D) 4 - 40 kg per acre

Q.85	Potassium fertilizers are especially useful for:	
	A) Mango	C) Wheat
	B) Tobacco	D) Rice
Q.86	The yellowish colour of photochemical smog is	due to the presence of:
4.00	A) Nitrogen dioxide	C) Nitrous oxide
	B) Dinitrogen trioxide	D) Nitric oxide
Q.87	The incarnation process can reduce the volume	
	A) One half	C) One third
	B) Not affected	D) Two third
Q.88	% of the known universe is in the	nlasma state
Q.00	A) 30	C) 50
	B) 99	D) 80
	2,33	2, 00
Q.89	Absolute zero is unattainable. Current attempt	s have resulted in temperature as low as:
	A) 10 <sup>-4</sup> K	C) 10 <sup>-1</sup> K
	B) 10 <sup>-2</sup> K	D) 10 <sup>-5</sup> K
0.00	Floature was the amount amounted to sometime the	a bandina in
Q.90	Electron gas theory was proposed to explain the	
	A) Molecular	C) Covalent
	B) Ionic	D) Metallic
Q.91	In proteins, there are on the average	amino acid units for each turn in helix:
<b>4</b>	A) 25	C) 21
	B) 27	D) 23
	,	
Q.92	In atomic particles:	
	A) Mass of neutron is almost equal to mass of electron	
	B) e/m of a proton is almost equal to e/m of electron	
	C) Mass of proton is almost equal to mass of electron	
	D) Charge of proton is almost equal to charge of elec	tron
Q.93	The extent of bonding of a light ray after passi	ng through prism depends upon:
Q.JJ	A) Wavelength of photons	C) Energy of photons
	B) Wave number of photons	D) Frequency of photons
	2, Harre Hamber of Printers	Dy Frequency or priorons
Q.94	Splitting of spectral lines in closely spaced line	
	A) Stark Effect	C) Photoelectric Effect
	B) Zeeman Effect	D) Compton Effect
Q.95	A bond is not formed:	C) M/h an attuation former demands were deity former
	A) When both forces become equal to each other	C) When attraction forces dominate repulsive forces
	B) When repulsive forces become equal to zero	D) When repulsive forces dominate attraction forces
Q.96	If the electronegativity difference between ho	onded atoms is zero, the bond between the two
Q.50	atoms is:	mada atomo io zoro, the bona betheen the th
	A) Polar	C) Non-polar
	B) Partially Ionic	D) Both B and C
Q.97	VSEPR theory helps in explaining:	
	A) Attraction between atoms	C) Nature of bond
	B) Size of molecule	D) Shape of molecule
0.00	Which of the following formation is an and other	numic reaction?
Q.98	Which of the following formation is an endother A) $C_{(g)} + O_{2(g)} \longrightarrow CO_2$	
	A) $C_{(g)} + O_{2(g)}$ $\longrightarrow$ $CO_2$ B) $N_{2(g)} + 3H_{2(g)}$ $\longrightarrow$ $2NH_{3(g)}$	C) $2H_2O_{(1)}$ $\longrightarrow$ $2H_{2(g)} + O_{2(g)}$ D) None of the above
	→ ZIVI 13(g)	b) Notic of the above
Q.99	Solubility of KClO <sub>3</sub> can be decreased bin H2O b	y:
	A) Removing K <sup>+</sup> ions from the solution	C) Adding KCl from outside
	B) Removing ClO <sub>3</sub> -1 ions from the solution	D) Adding NaNO₃ from outside



Page 1	O 01 19	
Q.100	36 g of HCl dissolves in 100 g of solution the HCl solution will be:	n. The density of HCl is 1.19 gcm <sup>-3</sup> . The molar mass of
		C) 20 0 a/mal
	A) 36.5 g/mol	C) 38.0 g/mol
	B) 100 g/mol	D) 11.73 g/mol
Q.101	The heat of hydration decreases with the	e increase in:
	A) Number of neutrons	C) Size of atomic radii
	B) Size of cations	D) Number of electrons
Q.102	Stronger the oxidizing agent, greater is	the:
<b>40-</b>	A) Redox Potential	C) Oxidation Potential
	B) emf of the cell	D) Reduction Potential
Q.103	The emf produced by Galvanic Cell is kno	own act
Q.103	A) Redox Potential	C) Cell Potential
	B) Oxidation Potential	D) None of the above
	b) Oxidation i otential	b) None of the above
Q.104	In nickel-cadmium battery, the cathode	· · · · · · · · · · · · · · · · · · ·
	A) Cd	C) Ni
	B) Ni(OH) <sub>2</sub>	D) NiO <sub>2</sub>
Q.105	Concentrated sugar solution undergoes	hydrolysis into glucose and fructose by enzyme called:
	A) Zymase	C) Cellulose
	B) Invertase	D) Urease
Q.106	In Modern Periodic Table, the elements	in Group II-B are:
Q.100	A) Zn, Cd, Pb	C) Zn, Cd, Ba
	B) Zn, Cd, Hg	D) Zn, Cd, Bi
0 107	Underson laces on electron to form.	
Q.107	Hydrogen loses an electron to form: A) H <sup>+</sup>	C) H
	B) H <sub>2</sub> <sup>-2</sup>	D) H-
0.400		110110
Q.108	Which metal occurs as skeletal material A) Calcium	in egg shell?  C) Beryllium
	B) Barium	D) Strontium
	b) banam	b) Subilium
Q.109	At which condition are hydrides of alkali	
	A) At high pressure	C) At high temperature
	B) At room temperature	D) None of the above
Q.110	Which metal carbide is formed readily by	y the direct reaction?
	A) Rubidium	C) Sodium
	B) Potassium	D) Lithium
Q.111	Asbestos is hydrated magne	sium silicate.
Ū	A) Calcium	C) Barium
	B) Aluminium	D) Carbon
Q.112	Formula of lead suboxide is:	
Q.IIZ	A) Pb <sub>2</sub> O <sub>3</sub>	C) PbO
	B) Pb <sub>2</sub> O	D) Pb <sub>3</sub> O <sub>4</sub>
	-, . 323	5).5551
Q.113	Phosphine can be produced by	
	A) Hydration	C) Oxidation
	B) Hydrolysis	D) Reduction
Q.114	Which Noble Gas is used in bacterial lam	•
	A) Xenon	C) Argon
	B) Radon	D) Krypton



Q.115	The most durable metal plating on iron to protect against corrosion is:			
	A) Tin plating	C) Nickel plating		
	D) Zinc plating	D) Copper plating		
Q.116	Colour of the transition metal ions/ compounds	s is due to the electrons present in:		
_	A) d-orbital	C) p-orbital		
	B) s-orbital	D) None of the above		
Q.117	Chromyl Chloride Test is performed to confirm:			
Q.117	A) Cl <sup>-</sup> ions	C) PO <sub>4</sub> <sup>-3</sup> ions		
	B) SO <sub>4</sub> <sup>-2</sup> ions	D) Cr <sup>+3</sup> ions		
	<i>b)</i> 304 10113	b) ci lons		
Q.118	Linear shape is associated with set of hybrid or			
	A) sp <sup>2</sup>	C) sp <sup>3</sup>		
	B) dsp <sup>2</sup>	D) sp		
Q.119	Which one of the following compounds show ci	is-trans isomerism?		
Ū	A) 1-butene	C) 1-bromo-2-chloropropane		
	B) 1-hexene	D) Propene		
Q.120	CH <sub>3</sub> —CH <sub>2</sub> —MgBr + H <sub>2</sub> O → Mg	+ X		
Q0	Mg	• •		
	Where 'X' is:			
	A) Propane	C) Methane		
	B) Butane	D) Ethane		
	•	-0		
	<u>ENGLI</u>	SH CO		
Q.121	The traveler a long detour to water			
	A) Took	C) Sought		
	B) Saw	D) Made		
Q.122	Shah Jahan the great mosque at I	Polhi		
Q.122	A) Founded	C) Created		
	B) Raised	D) Established		
	b) Raisca	b) Established		
Q.123	He was of theft in the court.			
Q.113	A) Charged	C) Blamed		
	B) Reported	D) Accused		
	b) Reported	b) / lecased		
Q.124	He on a very extraordinary ambiti	on.		
£	A) Arrived	C) Came		
	B) Decided	D) Hit		
	,	, -		
	SPOT THE ERROR: In the following senter	ences, some segments of each sentence are		
	underlined. Your task is to identify that u	inderlined segment of the sentence, which		
	contains the mistake that needs to be cor	rected. Fill the Circle corresponding to that		
	letter under the segment in the MCQ Response			
Q.125		as well as in sports, and bags big prizes in various field.		
	A)	B) C) D)		
Q.126	One must not depend too much upon one's hard wor	k as provident also plays its part		
Q.120				
	A) B)	C) D)		
Q.127	His <u>first adventure</u> was to <u>go round</u> <u>through</u> the work	d at minimum cost		
·	A) B) C)	D)		
	2,	-,		
Q.128	He has been working in this department since the las	t five years without any break.		
	A) R)			

## Page 12 of 18

Q.129	He <u>reached at</u> Lah A)	ore only <u>a few</u> da B)	ays ago, on last Fr	iday, <u>to be e</u> C	<u>exact</u> , and <u>is go</u> )	oing to stay he D)	ere for so	me time
Q.130	There was <u>a big r</u> A)	ally on the Mall, t	out as the crowd <u>d</u>	<u>lisintegrated</u> B)	, <u>chaos</u> and co C)	nfusion <u>ruled</u> D)	everywh	iere.
$\Longrightarrow$		ORRECT one	ng question, and fill the (					given. n the
Q.131	A) E-mail is a rela B) E-mail is a rela		of communication to communication					
Q.132	C) As like she said	id the computer was	rogrammed by Mo was programmed as programmed b omputer was prog	by Mona. y Mona.	Mona.			
Q.133	A) The remains of B) The remain of		hrown into the sea own into the sea.	-	mains of the bo			
Q.134	C) We will discuss	your problem as your problem as	soon as the communication soon as the commun	mittee left. mittee may l	eave.			
Q.135	C) When he reach	e book, the ladde ed for the book,	er slipped out fron er slipped out fron the ladder was sli r the book, the lac	n him. pped out fro	m under him.	n.		
Q.136	heat. C) After the sun wheat.	nad been set beh	nind the mountain	ool breeze w	eze sprang up	and brought	relief fr t relief fr	om the
Q.137	C) Masood told m	e that he would he that he would h	nire more salesma nire more salesma nire more salesma nire more salesma	n if he has b n if he has n	een in my posi ny position.			
Q.138	C) He consumed	nis heart at this a nis heart for this a	and washed away nd washed away l and washed away s and washed away	before the ve before the v	ery eyes of the very eyes of the	people e people.		
Q.139	A) They felt bad v B) They felt badly				elt very badly a elt badly while			ends.

	B) He then struck the man himself a similar bow, which C) He then struck the man himself a similar bow, which D) He then struck the man himself a similar bow, which be the struck the man himself a similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the man himself as similar bow, which be the struck the struck the man himself as similar bow, which be the struck the	ch felled him to the earth like a log.
$\Longrightarrow$		ur alternative meanings of a word are CORRECT MEANING of the given word Response Form.
Q.141	AGHAST A) Critical B) Reluctant	C) Happy D) Horrified
Q.142	INVIDIOUS A) Unbreakable B) Interesting	C) Unpleasant D) Fair
Q.143	IMPROMPTU A) Arriving at the right time B) Showing signs of being good	C) Done without preparation D) Wretched
Q.144	DISCERNMENT A) A system of controlling a country B) The ability to show good judgement	C) The act of encouraging somebody D) The ability to show no concern
Q.145	NEOLOGISM A) A new word B) Pleasant remark	C) Brief summary D) Archaic expression
Q.146	FURTIVE A) Furious B) Familiar	C) Secretive D) Easy
Q.147	BOURGEOIS  A) Belonging to the bureaucratic class B) Belonging to the middle class	C) Belonging to the upper class D) Belonging to the lower class
Q.148	RUMINATE A) Eat greedily B) Think deeply	C) Work lazily D) Run fast
Q.149	EMBELLISH A) Beautify B) Nominate	C) Finish D) Weaken
Q.150	PARABLE A) Impossible B) Sociable	C) Allegory D) Suitable

A) He then struck the man himself a similar bow, which felled him on the earth like a log.

## **BIOLOGY**

#### Q.151 If DNA strand is

B) CGTATGC

Q.140

## **GCTATGG**

## mRNA strand synthesized from it would be:

A) CGAUACC

C) CGATACC D) CGUTCC



## Page 14 of 18 Which one of the following conditions best describes active membrane potential: **Q.152** + - + - + - + - + Outside + + + + + + + + + + + Outside -+-+-+-+ Inside Neuron Inside Neuron A) C) + + + + + + + + + + + Outside +++++++++ Inside Neuron Inside Neuron B) D) Q.153 Tissue rejection is executed by: A) Both B and T lymphocytes C) B-lymphocytes B) Monocytes D) T-lymphocytes Which of the following statement best describes the function of sinoatrial node? Q.154 A) It sends out electrical impulses to ventricles to contract. B) It is present at upper end of the left atrium C) It consists of small number of diffusely oriented cardiac fibers. D) It sends out electrical impulses to atrial muscles causing both atria to contract. Q.155 A central cavity of the kidney where urine is collected after filtration is known as: A) Ureter C) Urethra B) Pelvis D) Urinary Bladder 0.156 Aldosterone plays role in: A) Transport of water C) Uptake of sodium in loop of Henle B) Transport of K<sup>+</sup> ions into kidney D) Reabsorption of water Q.157 Technique used for non-surgical removal of kidney stone is called: A) Ultrasound C) Dialysis B) Lithotripsy D) X-ray Q.158 Microcephaly, the small sized skull is due to: A) Nutritional Cause C) Hormonal Causes B) Skeleton Damage D) Genetic Defect The joints that allow movements in several directions are: Q.159 A) Hinge Joints C) Fibrous Joints B) Ball and Socket Joints D) Cartilaginous Joints Q.160 The collagen fibers of bone are hardened by deposit of: A) Calcium phosphate C) Calcium carbonate B) Calcium oxalate D) Calcium bicarbonate Which of the following neurotransmitters lies outside the central nervous system? Q.161 A) Serotonin C) Acetylcholine B) Dopamine D) Adrenaline Q.162 Which hormonal pair shares a common hypothalamic releasing factor? A) STH and LH C) FSH and STH B) ACTH and LH D) FSH and LH

Q.163 Which of the following will happen if fertilization does not occur?

A) Menopause starts

C) FSH secretion is increased

B) Corpus luteum degenerates D) Progesterone secretion is increased

b) Corpus futeum degenerates

Q.164 Newborn infant may acquire serious eye infections, if his/her mother has:

A) Genital herpes C) Gonorrhea B) AIDS D) Syphilis

Q.165	At the cephalic end of primitive streak, closely	<del>-</del>
	A) Henson's Node B) Gastrocoele	C) Primitive Ridge D) Primitive Gut
	2, 5000 5000	2,
Q.166	In plants, the red light favours:	
	A) Enhancement of cell differentiation	C) Maturation of the cells
	B) Elongation of cells	D) Enhancement of cell division
Q.167	The reaction between the phosphate group of	one nucleotide and hydroxyl group of another is
	a synthesis in DNA molecule.	
	A) Dehydration	C) Oxidation
	B) Rehydration	D) Reduction
Q.168	Enzyme which attaches the Okazaki fragments	in lagging strand is called:
	A) Restriction endonuclease	C) DNA helicase
	B) Primase	D) DNA ligase
Q.169	In phenylketonuria, phenylalanine is not degra	ded because of defective enzyme:
	A) Phenylalanine hydrogenase	B) Phenylalanine oxidase
	B) Phenylalanine phosphate	D) None of these
Q.170	Males with XXY chromosomes suffer from:	
	A) Klinefelter's Syndrome	C) Down's Syndrome
	B) Jacob's Syndrome	D) Edward's Syndrome
Q.171	Internal program of events and sequences of	morphological changes by which cell commit a
Q.17 1	suicide is collectively called:	morphological changes by which cen commit a
	A) Necrosis	C) Metastasis
	B) Epistasis	D) Apoptosis
Q.172	Phragmoplast is formed from vesicle which original	ginates from:
Q.17 _	A) Smooth Endoplasmic Reticulum	C) Ribosome
	B) Golgi Complex	D) Rough Endoplasmic Reticulum
Q.173	When phenotype of a heterozygote is in het	ween the phenotypes of both the homozygote
Q.173	parents, it is called:	ween the phenotypes of both the homozygote
	A) Incomplete dominance	C) Pleiotropy
	B) Epistasis	D) Codominance
	D) Epistasis	b) codominance
Q.174	Which one of correct about 'Rh+' blood?	
	A) Will produce anti-Rh antibodies if given Rh <sup>+</sup> blood	
	B) Cannot produce anti-Rh antibodies in any case	D) Rh <sup>+</sup> antibodies are present in blood
Q.175	Temperature-insensitive (thermostable) enzym	ne used in PCR is:
· \	A) DNA polymerase I	C) DNA ligase
	B) DNA polymerase III	D) Taq polymerase
Q.176	Cloning is a form of:	
<b>L</b>	A) Parthenogenesis	C) Sexual Reproduction
	B) Apomixis	D) Asexual Reproduction
Q.177	Antigens to treat Non-Hodgkin's lymphoma are	produced by:
Q.177	A) Wheat Plant	C) Tobacco Plant
	B) Rice Plant	D) Corn Plant
O 179	The curvival of an examinar device the street	for ovietones is not unudom. but demands and
Q.178	The survival of an organism during the struggle  A) Its genetic constitution	C) Its ability to over-produce
	B) Its ability to acquire characters	D) Its ability to over-eat
Q.179	Evolutionary relationships amongst species are	
	A) DNA and proteins	C) DNA and gene
	B) RNAs and proteins	D) DNA and RNAs



Page 1	6 of 18	
Q.180	If all the members of a population are homoz	rygous for the same allele, that allele is said to be:
•	A) Random in population's pool	C) Random in a species
	B) Fixed in population's pool	D) Fixed in the gene pool
		, , , , , , , , , , , , , , , , , , , ,
Q.181	Diseases in living organisms which are cause	d by parasites are called:
<b>~</b>	A) Disinfestations	C) Infections
	B) Antisepsis	D) Infestations
	b) / titalsepois	b) Intestitations
Q.182	The nutrient cycles are also called:	
Q.102	A) Biogeochemical cycles	C) Bio element cycles
	B) Biochemical cycles	D) Geochemical cycles
	b) blochemical cycles	b) deochemical cycles
O 102	The must well with a financial account on its data	anning d bar
Q.183	The productivity of aquatic ecosystem is dete	· · · · · · · · · · · · · · · · · · ·
	A) Water	C) Light
	B) Light and nutrients	D) Nutrients
Q.184	What is the drawback of nuclear energy?	
	A) It causes radiation pollution	C) It is very expensive
	B) It is not long lasting	D) It pollutes the air
Q.185	Arteriosclerosis is:	
	A) A metabolic disorder	C) An infectious disorder
	B) A degenerative Disorder	D) A nutritional deficiency disorder
Q.186	Antibiotics act against:	
	A) Bacterial Diseases	C) Bacterial and Viral Diseases
	B) Allergies	D) Viral Diseases
	, č	
Q.187	Immediate source of energy for cellular meta	abolism is:
	A) Lipids	C) Carbohydrates
	B) ATP	D) Proteins
	,	
Q.188	Haemoglobin exhibits:	
Q.100	A) Secondary Structure	C) Quaternary Structure
	B) Primary Structure	D) Tertiary Structure
	b) i filliary structure	b) Tertiary Structure
Q.189	Pensin enzyme is produced in an inactive for	m and is activated in situation when it is required
Q.109	because:	in and is activated in situation when it is required
	A) Not produced in complete form	C) It does not work efficiently at that time
	B) Quite capable of destroying cells internal structu	· · · · · · · · · · · · · · · · · · ·
	b) Quite capable of destroying cens internal structor	ile b) Notie of the above
Q.190	Enzyme after catalysis detaches itself from the	ha producti
Q.190		
	A) Completely  R) Incompletely	C) Changed D) Unchanged
	B) Incompletely	D) Officialized
Q.191	A group of ribosomes attached to messenger	PNA is known as
Q.191		
	A) Ribosome	C) Nucleosome
	B) Lysosome	D) Polysome
O 102	Detection of barmful drugs within the se	Il is done by
Q.192	Detoxification of harmful drugs within the ce	and the control of th
	A) Nucleolus	C) Ribosomes
	B) Smooth Surface Endoplasmic Reticulum	D) Food Vacuoles
0.400	Tou Cook a disease is due to the	an annual that is invested in the Co. C.
Q.193		an enzyme that is inverted in the catabolism of:
	A) Proteins	C) Ascorbic Acid
	B) Carbohydrates	D) Lipids
Q.194	What is true about pattern baldness?	
	A) It is autosomal recessive disease in males	C) It is X-linked disease
	B) It is autosomal dominant disease in males	D) It is Y-linked disease



Q.195	Symptoms of Herpes Simplex is:  A) Abdominal Pain B) Fever	C) Vesicular lesions in the epithelial layer D) Failure of immune system
Q.196	The major cell infected by the HIV is: A) Leucocyte B) Monocyte	C) Helper T-lymphocyte D) B-lymphocyte
Q.197	are used as important vector	rs in genetic engineering.
•	A) Ribosomes B) Plasmids	C) Nucleoids D) Mesosomes
Q.198	Which of the following is aerobic bacterium A) Spirochete B) Cyanobacteria	1? C) E. coli D) Pseudosomanas
Q.199		om of fresh water ponds and obtain energy from:
	A) Microscopic bacteria     B) Aerobic bacteria	C) Anaerobic bacteria D) Methanogenic bacteria
Q.200	A large group of parasitic protozoa, some humans, are:	of which causes various diseases such as malaria to
	A) Aschelminthes B) Platyhelminthes	C) Annelida D) Arthropods
Q.201	Penicillin is obtained from:  A) Penicillium notatum  B) Aspergillus flavus	C) Aspergillus fumigatus D) Penicillium chrysogenum
Q.202	Which of the following components is less A) Lignin B) Starch	resistant to decay? C) Chitin D) Cellulose
Q.203	are bioindicators of air polluti A) Cyanobacteria	<b>on.</b> C) Mycorrhiza
	B) Fungi	D) Lichens
Q.204	The gymnosperms are called 'Naked Seede A) Antheridia B) Ovules	d' plants because they bear naked: C) Fruits D) Archegonia
Q.205	The integumented indehiscent mega spora	
	A) Seed B) Megagametophyte	C) Archegonium D) Ovule
Q.206	Pulses are present in the family:  A) Caesalpinlaceae  B) Fabaceae	C) Gramineae
	,	D) Mimosaceae
Q.207	It is an endoparasite of humans, cattle and A) Tapeworm B) Aurelia	l <b>pig that completes its life cycle in two hosts:</b> C) Liver fluke D) Planaria
Q.208	Tse-tse fly causes the sleeping sickness and A) Plasmodium	d skin diseases by transmitting: C) Anopheles
	B) Trypanosoma	D) Insects
Q.209	Coelem is a cavity lined by: A) Mesoderm	C) Epiderm
	B) Endoderm	D) Ectoderm



_	8 of 18	
Q.210	Which of the following molecules is reduced	
	A) Glyceraldehyde-3-phosphate	C) 3-Phosphoglycerate
	B) Ribulose bisphosphate	D) 1,3-Bisphosphoglycerate
Q.211	The molecule formed after first phosphoryla	tion during glycolysis is:
	A) Fructose-6-phosphate	C) Glucose-1-phosphate
	B) Fructose-1, 6-bisphosphate	D) Glucose-6-phosphate
Q.212	Krebs Cycle in mitochondria takes place in:	
	A) Cytosol	C) Outer Membrane
	B) Matrix	D) Inner Membrane
Q.213	At the junction between esophagus and the	stomach there is a special ring of muscles called:
	A) Cardiac Sphincter	C) Esophageal Sphincter
	B) Ileocolic Sphincter	D) Pyloric Sphincter
Q.214	Hepatic and pancreatic secretions are also s	
	A) Gastrin	C) Insulin
	B) Secretin	D) Glucagon
Q.215	Like pepsin, trypsin is also secreted as inacti	
	A) Enterokinase	C) Chyme
	B) Lipase	D) Erypsin
Q.216		nverted into glycine in a structure of cell called:
	A) Golgi Bodies	C) Mitochondria
	B) Glyoxisome	D) Peroxisome
Q.217	The respiratory pigment, which has much hi	
	A) Myoglobin	C) Haemoglobin
	B) Globin	D) Hemocyanin
Q.218	Most of the carbon dioxide is carried in the b	
	A) Bicarbonate	C) CO <sub>2</sub>
	B) Carboxyhemoglobin	D) Blood plasma protein
Q.219	Antibiotics are actually:	0.51
	A) Globular proteins	C) Fibrous proteins
	B) Glycoproteins	D) Glycolipids
Q.220	Heparin prevents blood clots and is released	
	A) Eosinophils	C) Neutrophils
	B) Monocytes	D) Basophils

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## University of Health Sciences, Lahore Entrance Test – 2009

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

The answer key to the questions of Entrance Test 2009 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.

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