Model Questions for MBBS Part 1 – Physics

1.	The constant $\mu_0 \epsilon_0$ has the same dimension as					
	a) reciprocal of velo	ocity	b) square of velocity			
	c) velocity		d) reciprocal of squa	are of velocity		
2.	If mass of electron is 9.11×10^{-31} kg, the number of electrons in 10g will be					
	a) 6x10 ²⁸	b) 4.5x10 ²⁴	c) 1.1x10 ²⁸	d) 1.09x10 ²⁷		
3.	The number of sign	ificant figures in 0.0045	0 are			
	a) 5	b) 4	c) 3	d) 7		
4.	A particle is moving equation for the pat	g with a velocity v = K(y th described by the parti	/i+xj), where K is a co icle is	onstant. The general		
	a)y=x ² +constant	b) y ² =x+constant	c)x y=constant	d) y ² =x ² +constant		
5.	A Wheel has moment of inertia 1 kg m ² about its vertical axis .It rotates at a rate of 60 rpm about this axis. The torque which can stop the wheel's rotation in a minute is					
	a) π/12	b) π/15	с) п /18	d) π/30		
6.	A particle has an in after 10s is	article has an initial velocity of 3i+4j and an acceleration of 0.4i+0.3j.Its speed r 10s is				
	a) 7 units	b) 8.5 units	c) 10 units	d) $7\sqrt{2}$ units		
7.	Motion of planets in the solar system is an example of the conservation of					
	a)mass	b) linear momentum	c) angular momentu	um d) energy		
8. The velocity with which a projectile must be launched so that it es gravitational field, does not depend on				escapes earth's		
	a) mass of the earth		b) mass of the projectile			
	c) radius of the projectile's orbit d) gravitational constant					
9.	An object is immers	sed in a fluid. For the ob	ject to become invisib	ble it should		
	a) behave as a perfe	ect reflector	b) absorb all	light falling on it		
	c) have refractive index 1					

A

d) have refractive index exactly matching with the surrounding fluid

- 10. A particle is vibrating in simple harmonic motion with an amplitude 0.04 m. At what displacement from the equilibrium position is its energy half potential and half kinetic?
 - a) 1 cm b) 2 cm c) 2 2 cm d) 2 cm.

A lady wearing high heel shoes balances on a single heel. The heel is circular with a diameter 0.8 cm. The pressure exerted by the heel on the horizontal floor is 7.8 × 106 N/m². The mass of the lady is
a) 40kg
b) 50kg
c) 60kg
d) 10kg

- 12. Dettol can reach fine cavities formed in wounds to clean becausea) Surface tension of Dettol is greater than that of waterb) Surface tension of Dettol is equal to that of waterc) Dettol is highly viscous
 - d) Dettol is less viscous

 Temperature of human body is 98.4° F. The corresponding temperatures on the celsius scale and kelvin scale are

a) 0°C and 273K	b) 273 K and 17°C
c) 36.9°C and 309.9 K	d) 17.2°C and 120.2 K

- 14. If the sun becomes twice as hot,
 - a) the output radiant energy will be sixteen times larger
 - b) it will radiate predominantly ultraviolet
 - c) it will radiate monochromatic radiation
 - d) it becomes dark.
- 15. When water is heated convection currents occur because
 - a) warm water is heavier than coldwater
 - b) heat pushes the water up
 - c) warm water is less dense than coldwater
 - d) cold water is less dense than warm water

16. Velocity of light in a transparent medium is2 /3 of that in air. The refractive index of the medium is

a) ().67 ł	o) 1.1	c) 1.5	d) 0.12.
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17.	The source of energy for the sun to radiate is			
	a) fission	b) thermo-electric power		
	c) fusion	d) photoelectric effect.		

18. At a distance 4 metre from a lamp the intensity of illumination is 6 lux. The illuminating power of lamp isa) 22 candelab) 9 candelac) 28 candelad) 96 candela.

19. If a star moves away from the earth, the spectral line of the stara) shifts toward the red end of the spectrumb) shifts toward the violet end of the Spectrumc) does not shiftd) disappears

20. In the case of a parallel plate capacitor, when the distance between the two plates is reduced to one third and the area of the plate doubled, the capacitance
a) remains the same
b) is doubled
c) increases to five times
d) increases to six times

21. If two identical point charges separated by 3 m experience a force of 10 newton, then the individual charge is

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a) 100\mu C b) 10\muC c) 1\muC d) 0.1\mu C
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- A magnetic material has a magnetization of 3200 A/m and flux density of 14π × 10⁻⁴ weber/m². The magnetizing force is
 a) 10 A/m
 b) 200 A/m
 c) 3000 A/m
 d) 300 A/m.
- 23. The vertical component of earth's magnetic field is zero ata) magnetic equatorb) magnetic polesc) geographic polesd) at 90° latitude.

Photon is a					
a) quantum of matter		b) positively charged particle			
c) negatively charged particle d) quantum of light.					
The elementary particles having rest mass equal or greater than that of nucleons are					
a) mesons	b) leptons	c) photons	d) baryons.		
The ratio of specific of	charge of proton and	a-particle is			
a) 2 : 4	b) 2 : 1	c) 1 : 4	d) 4 : 1.		
Positive rays					
a) cannot ionise gase	S				
b) have no effect on j	photographic plate				
c) cannot penetrate e	ven through substance	es of small thickness			
d) can disintegrate metals or cause Sputtering					
When X-rays pass through air, they					
a) produce light trac	k in the air	b) ionise the gas			
c) produce fumes in air d) accelerate gas atoms.					
Which of the following has largest deBroglie wavelength λ , provided all have equately velocity?					
a) CO ₂ molecule	b) NH ₃ molecule	c) proton	d) O ₂ molecule.		
The conversion of one element into another by bombarding the nucleus is called					
a) natural radioactive		b) chain reaction			
c) cosmic radiation		d) artificial transmut	ation		
The most important advantage of nuclear energy is					
a) less time is required to generate the energy					
b) a small nuclear fu	el is sufficient to produ	ice huge amount of en	ergy		
c) less safety measures are sufficient					
d) many operational difficulties are not there					
	Photon is a a) quantum of matter c) negatively charged The elementary partia a) mesons The ratio of specific of a) 2 : 4 Positive rays a) cannot ionise gase b) have no effect on p c) cannot penetrate e d) can disintegrate m d) can disintegrate m When X-rays pass th a) produce light track c) produce fumes in a Which of the following velocity? a) CO ₂ molecule The conversion of on a) natural radioactive c) cosmic radiation The most important a a) less time is require b) a small nuclear fue c) less safety measure d) many operational	Photon is a a) quantum of matter c) negatively charged particle The elementary particles having rest mass a a) mesons b) leptons The ratio of specific charge of proton and a a) 2 : 4 b) 2 : 1 Positive rays a) cannot ionise gases b) have no effect on photographic plate c) cannot penetrate ven through substance d) can disintegrate metals or cause Sputter b) have no effect on photographic plate c) cannot penetrate ven through substance d) can disintegrate metals or cause Sputter d) can disintegrate b) has largest deBrog velocity? a) CO ₂ molecule b) NH ₃ molecule The conversion of one element into another a) natural radioactive c) cosmic radiation The most important advantage of nuclear of a) less time is required to generate the ener b) a small nuclear fuel is sufficient to produce c) less safety measures are sufficient d) many operational difficulties are not the	Photon is a a) quantum of mattrop mattrop particle b) positively charged a) negatively charged b) leptons c) photons The elementary particle b) leptons c) photons a) mesons b) leptons c) photons The ratio of specific drage of proton and a) arparticle is a) 2 : 4 b) 2 : 1 c) 1 : 4 Positive rays a) cannot ionise gass c) 1 : 4 a) cannot ionise gass b) 2 : 1 c) 1 : 4 b) have no effect or brotographic plate c) cannot penetrate even through substances of small thickness of a claisintegrate with the air b) ionise the gas a) produce light track in the air b) ionise the gas c) c) produce fumes in the gas c) produce fumes into another substances c) proton Which of the followither blate gas largest deBrogerie wavelength λ , prove velocity? d) accelerate gas atom of a) accelerate gas atom of a) antural radioactive b) NH ₃ molecule c) proton Che most important developerie definition another substances in clais region radiation d) artificial transmuter of a) a small nuclear twantage of nuclear erry is a) less time is required function to protection is a clais the gan atom is a clais the gan atom is and in the gan atom is a clais t		

32.	An increase of temperature of a semiconductor decreases			
	a) the resistivity	b) the band gap		
	c) the conductivity	d) size of the semiconductor.		
33.	In an <i>n</i> -type semiconductor, the position of the Fermi level			
	a) is lower than the centre of the energy gap			
	b) is at the centre of the energy gap			

- c) is higher than that of the energy gap
- d) can be anywhere depending on the doping concentrates.
- 34. At 0 K, germanium is a
 a) conductor
 b) insulator
 c) superconductor
 d) semiconductor.
- 35. A *p*-type silicon crystal is electrically
 a) positive
 b) negative
 c) neutral
 d) either positive or negative.

a) temperature and pressure are low b) temperature is low or pressure is high c) temperature is high or pressure is low d) temperature and pressure are high 37. The compound in which P remains in the +3 oxidation state is a) P_2O_5 b) P_4O_{10} c) P_4O_6 d) H_3PO_4 38. What is the co-ordination number for Cr in K ₃ [Cr(C ₂ O ₄)].3H ₂ O? a) 3 b) 4 c) 6 d) 5 39. The secondary valency of Co in [Co (en) ₂ Cl ₂]+ is a) 6 b) 4 c) 2 d) 8	The real gas behave like an ideal gas when				
b) temperature is low or pressure is high c) temperature is high or pressure is low d) temperature and pressure are high 37. The compound in which P remains in the +3 oxidation state is a) P_2O_5 b) P_4O_{10} c) P_4O_6 d) H_3PO_4 38. What is the co-ordination number for Cr in K ₃ [Cr(C ₂ O ₄)].3H ₂ O? a) 3 b) 4 c) 6 d) 5 39. The secondary valency of Co in [Co (en) ₂ Cl ₂]+ is a) 6 b) 4 c) 2 d) 8					
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a) P_2O_5 b) P_4O_{10} c) P_4O_6 d) H_3PO_4 38. What is the co-ordination number for Cr in $K_3[Cr(C_2O_4)].3H_2O?$ a) 3 b) 4 c) 6 d) 5 39. The secondary valency of Co in $[Co (en)_2Cl_2]^+$ is a) 6 b) 4 c) 2 d) 8					
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a) 6 b) 4 c) 2 d) 8					
$u_j o = c_j z = u_j o$					
40. Which of the following ligands forms a Chelate ?					
a) Acetate b) Oxalate c) Cyanide d) Ammor	nia				
41. Identify the least stable among the following	Identify the least stable among the following				
a) Li- b) Be- c) B- d)C-					
Paschen series are produced when electrons from the outer orbits jump to					
a) 2^{nd} orbit b) 3^{rd} orbit c) 4^{th} orbit d) 5^{th} orbit	ŧ				
The series of line present in the visible region of the hydrogen spectrum is					
a) Lyman b) Balmer c) Paschen d) Bracket	t				
44. The bond order of N ₂ molecule is					
a) 1 b) 2 c) 3 d) 2.5					
45. The bascity of Phosphorous acid , Orthophosphoric acid and Metaphospho	The bascity of Phosphorous acid , Orthophosphoric acid and Metaphosphoric acid				
a) 3,2and1 b)2,3 and 1 c) 2,1 and 3 d) 1,2 and	3				

46.	Change in enthalpy for the reaction $2H_2O_2(l) \rightarrow 2H_2O(l) + O_2(g)$, if heat of formation of					
	$\mathrm{H_2O_2}(l)$ and $\mathrm{H_2O}(l)$ are -188 KJ /mol, and -286 KJ /mol respectively is					
	a) -196 KJ / mol	b) 196 KJ /mol	c) 948 KJ /mol	d) -948 KJ / mol		
47.	Water is a					
	a) Protophobic solv	vent	b) protophilic solve	ent		
	c) amphiprotic solv	vent	d) aprotic solvent			
48.	Which of the follow	ving has the lowest pI	H value			
	a) 1M HCl	b) 1M NaOH	c) 1M H ₂ SO ₄	d) 1M C ₂ H ₅ OH		
49.	Which among the f	ollowing rate constan	t indicates first order r	eaction?		
	a) 2 x 10 ⁻⁵ sec ⁻¹		b) 2 x 10 ⁻⁵ mol lit ⁻ se	ec-1		
	c) 2 x 10 ⁻⁵ mol ⁻² lit ²	sec-1	d) 2 x10 ⁻⁵ mol ⁻¹ lit s	Sec ⁻¹		
50.	The tyndall effect associated with colloidal particles is due to					
	a) Presence of electrical charge		b) scattering of ligh	b) scattering of light		
	c) absorption of light		d) reflection of light			
51.	Which one of the following is lyophilic colloid?					
	a) Milk	b) gum	c) fog	d) blood		
52.	Which of the following aqueous solutions will conduct current quite well?					
	a) Glycerol	b) HCl	c) Sugar	d) pure water		
53.	The emf of the cell reaction is positive when the free energy of the cell reaction is					
	a) +ve		b)-ve			
	c) zero		d) cannot be predic	cted		
54.	Which of the follow	ving reactions occurs	at the anode when the	electrolysis of CuCl ₂ is		
	carried out using Pt electrode?					
	a) Cu \rightarrow Cu ²⁺ + 2e ⁻	b) 2Cl- \rightarrow Cl ₂ +2e-	c) 2H ₂ O→O ₂ + 4H+	d) $2Cu \rightarrow Cu^+ + e^{-\epsilon}$		
55.	The amount of electricity required to deposit one mole of aluminium from a solution					
	of AICl ₃ will be					
	a) 0.33 Faraday	b) 1 Faraday	c) 3 Faraday	d) 1.33 Faraday		

56.	The element with highest electrical conductivity is					
	a) Gold	b) silver	c) copper	d) mercury		
57.	The conductivit	y of N/10 KCl solution	on at 20°C is 0.021	12 ohm ⁻¹ Cm ⁻¹ and the		
	a) 4.616 cm ⁻¹	b) 1.66 cm ⁻¹	c) 2.173 cm ⁻¹	d) 3.324 cm ⁻¹		
58.	Which is the mis	sing particle in the follow	wing nuclear reaction	n, $_{3^{7}\text{Li}} + _{1^{2}\text{H}} \rightarrow _{3^{8}\text{Li}} + ?$		
	a)Proton	b) deuteron	c) positron	d) a-particle		
59.	Which of the foll	owing has highest n/p r	atio?			
	a) ¹⁶ Ne	b) ¹⁶ O	c) ¹⁶ F	d) ¹⁶ N		
60.	Which of the following is used as neutron absorber in the nuclear reactor?					
	a) Water	b) deuterium	c) tritium	d) cadmium		
61.	Which of the following alkenes gives only acetic acid on oxidation with hot conc.KMnO ₄ ?					
	a) Ethylene	b) 1-Butene	c) Propene	d) 2-Butene		
62.	The number of structural isomers of alcohols with molecular formula C $_4H_9OH$ is					
	a) 5	b)4	c) 3	d)6		
63.	Lucas test is used to determine the type of					
	a) Alcohols	b) amines	c) acids	d) carbohydrates		
64.	Check the incorrect statement					
	a) Tartaric acid is	a) Tartaric acid is present in grapes		b) citric acid is a tricarboxylic acid		
	c) formic acid is present in insect bites d) acetic acid is present in sour milk					
65.	Which of the foll	owing statements is fals	e about glucose?			
	a) It is a reducing	g sugar	b) it has a pyrane	ose form		
	c) it is a disaccha	ride	d) it is a polyalcohol			

66.	With which of th	ne following diseases is	vitamin K associated?	amin K associated?		
	a) Rickets		b) Coagulating pr	b) Coagulating property of blood		
	c) Scurvy		d) Sore throat			
67.	Which of the fol	lowing is insecticide?				
	a) DDT	b) TNT	c) TNB	d) aspirin		
68.	Caprolactum is the starting material for					
	a) Nylon-6	b) terylene	c) nylon-6,10	d) nylon-6,6		
69.	$F_2C=CF_2$ is a monomer of					
	a) Teflon	b) glyptal	c) nylon-6	d) buna-S		
70.	PVC is stronger than PE due to one of the following reasons					
	a) Presence of lumps of Cl atoms in the side chain					
	b) Belongs to thermosetting plastic					
	c) Belongs to thermoplastic					
	d) Presence of cross linked structures					

Part 3 – Biology

71.	Name the organ that	Name the organ that stores surplus red blood cells				
	a) Pancreas	b) Spleen	c) Liver	d) Kidneys		
72.	Which is not a bacter	rial disease affecting	animals?			
	a) Anthrax	b) Leptospirosis	c) Histoplasmosis	d) Tuberculosis		
73.	Karyotyping					
	a) Identification of different cell lines b) Chromos			plication		
	c) Arrangement of ch	nromosomes	d) DNA fragmentat	ion		
74.	The smallest particle	of a substance that is	s capable of independe	nt existence is		
	a) Atom	b) Electron	c) Molecule	d) Proton		
75.	Which of the following statements concerning platelets is INCORRECT. Platelets					
	b) have little ability to synthesize proteins					
	c) are roughly disk-shaped					
	d) are between $1/2$ and $1/3$ the diameter of the red cell					
76.	Which of the following is NOT part of a neuron?					
	a) Synapse	b) Axon	c) Nissl bodies	d) Dendrite		
77.	Tissue differentiation begins at which stage?					
	a) Zygote	b) Blastula	c) Morula	d) Gastrula		
78.	Among these which one is Organophosphorus Pesticides?					
	a) Dichloromethane	b) Malathione	c) Chloroform	d) Carbamide		
79.	How many nucleotides make up a codon?					
	a) 3	b) 4	c) 6	d) 1		
80.	The purity of an enzyme at various stages of purification is best measured by					
	a) Total protein b) Total enzyme activity					

	c) Specific activity of	the enzyme	d) Percent recovery c	of protein	
81.	The movement of water upward in xylem vessels is most directly related to			related to	
	a) Wall pressure		b) Transpiration		
	c) Turgor pressure		d) Cytoplasmic stream	ming	
82.	Which of the following is NOT a characteristic feature of the kingdom				
	a) They are multicellular				
	b) They possess bilate	eral symmetry			
	c) They are nonmotil	ρ			
	d) There is an alterna	tion of haploid and di	ploid generations		
	u) mere is un unema		piona generations		
83.	The major component of a plant cell wall is a product formed from the dehydration				
	a) Fatty acids		b) Amino acida		
	a) Party actus		d) Monosaccharides		
	c) indefeotides		u) wonosaccharides		
84.	The most important of	ozone depleting factor	in the stratosphere is		
	a) CH ₄	b) CFC	c) N ₂ O	d) CO	
85.	Pesticide with very low biodegradation and strong affinity for fatty tissues are				
	a) Organo phosphates		b) Pyrethrodids		
	c) Organochlorides		d) Allerthrin		
86.	AZT (azidothymidin	e) is the drug of choice	e for		
	a) Tuberculosis	b) Cholera	c) AIDS	d) SARS	
07	The sheet territy of the	-financelate density			
67.	The phenotypic ratio	or incomplete domina		1) 0 0 0 1	
	a) 3:1	b) 1:1	c) 1:2:1	a) 9:3:3:1	
88.	Antigenic determinat	nts of variable regions	are referred as		
	a) Isotype	b) Allotype	c) Idiotype	d) Fc receptors	
89.	One gene one enzym	e hypothesis was prop	posed by		
	a) Beadle and Tatum	b) Waldeyer	c) Johansen	d) Balbiani	

90.	Which of the following is NOT a mode of genetic exchange within a bacterial							
	population?							
	a) Conjugation		b) Transformation					
	c) Transduction		d) Translation					
91.	Virus reproduces by							
	a) Undergo transform	nation	b) Infect a cell					
	c) Form a latent viru	S	d) Undergo conjugat	ion				
92.	2-phospho glyceric acid is converted to phosphoenol pyruvic acid by							
	a) Phosphoglyceric r	nutase	b) Phosphoglyceric kinase					
	c) Enolase		d) Pyruvic kinase					
93.	Which among the following organisms does not cause disease in plants							
	a) Pseudomonas		b) Agrobacterium					
	c) Xanthomonas		d) Clostridium					
94.	Which of the following actions is not related to plant tissue culture?							
	a) Reduction		b) Oxidation					
	c) Active halogen		d) Heavy metal poisoning					
95.	Water potential is equal to							
	а) п + ТР	b) Ψ s + Ψ p	с) п + WP	d) Ψ				
96.	In Gram Staining, Gram's iodine act as							
	a) Counter stain		b) Primary stain					
	c) Secondary stain		d) Mordant					
97.	Lysosomes are reservoirs of							
	a) Fat		b) RNA					
	c) Secretary glycopro	oteins	d) Hydrolytic enzym	ies				
98.	Which of these auxin eradicates weeds							
	a) 2,4 Dichloro phen	oxy acetic acid	b) Indole 3 Acetic acid					
	c) Ethylene		d) Abscisic acid					

A

99.	Prothrombin synthesis in liver requires						
	a) Zinc	b) Potassium	c) Calcium	d) Vit K			
100.	Find the correctly matched pathogenic protozoans with its diseases						
	a) <i>Leishmania tropica</i> – skin leishmaniasis						
	b) <i>Giardia intestinalis</i> – amoebiasis						
	c) <i>Leishmania donavani</i> - African sleeping sickness						
	d) Trypanosom	a gambiens – kala azar					
101.	Posterior pituitary hormones are:						
	a) Vasopressii	n and CRH	b) Oxytocin and	ACTH			
	c) TRH and FS	6H	d) ADH and Ox	ytocin			
102.	Which of thes	e is an essential amino aci	d?				
10-1	a) Alanine		b) Arginine				
	c) Serine		d) Lysine				
103	Which of the	following is non-homonol	vsaccharides				
100.	a) Cellulose b) Starch						
	c) Glycogen		d) Heparin				
104	A	are in unlanged have					
104.		on is released by					
	a) Arginase	1 1 1	b) Glutaminase	1 1			
	c) Glutamate	denydrogenase	a) Glutamate ny	/drolase			
105.	Inability to understand, speak or read is						
	a) Dyslexia		b) Ataxia				
	c) Disconnecti	on syndrome	d) Aphasia				
106.	Which of the following has the highest pH?						
	a) Gastric juic	e	b) Saliva				
	c) Bile in the g	allbladder	d) Pancreatic ju	d) Pancreatic juice			
107.	Recommended vaccines for rabies						
	a) BCG	b) HDCV	c) MMR	d) DPT			

108.	All these conditions are sex chromosome disorders except:							
	a) Super female		b) Down's syndrome					
	c) Turner syndrome		d) Kline filter syr	ndrome				
109.	Nodules with nitro	gen-fixing bacteria are	present in					
	a) Gram	b) Mustard	c) Wheat	d) Cotton				
110.	10. Stable conformation means							
	a) Maximum energy	7	b) Binding energy					
	c) Minimum energy		d) Interaction ene	ergy				
111.	Holliday junctions a	Holliday junctions are otherwise called as						
	a) Tight Junction		b) Gap Junctions					
	c) Recons		d) Introns					
112.	The correct structur	e of a nucleotide is:						
	a) Phosphate-ribose-adenine							
	b) Phospholipid-sugar-base							
	c) Phosphate-sugar	r-phosphate-sugar						
	d) Adenine-thymine	e or guanine-cytosine						
113.	The gas that is most	responsible for the gr	esponsible for the greenhouse effect on Earth is					
	a) Oxygen		b) Carbon dioxid	e				
	c) Nitrogen		d) Ozone					
114. Which material accounts for the greatest percentage of the weight of								
	a) Food waste		b) Paper					
	c) Plastic		d) Yard waste					
115.	Which is incorrect?							
	a) Stem cells are sel	f-renewable						
	b) Stem cells can pr	oliferate						
	c) Stem cells can dif	ferentiate						
	d) Stem cells has inc	lefinite lifespan						

116.	Adenovirus						
	a) is a double stranded DNA virus						
	b) is implicated in acute retinal necrosis						
	c) causes conjunctivitis which responds well to oral acyclovir						
	d) RNA containing v	irus					
117.	The attachment of the embryo to the uterus is called						
	a) Gestation		b) Implantation				
	c) Fertilisation		d) Menstruation				
118.	Which of the following	ng is a non renewable :	resource?				
	a) Solar Energy		enewable resource? b) Flora and fauna				
	c) Hydrocarbon fuel		d) Nuclear power				
119.	Birds differ from bats	s in absence of					
	a) Homeothermy		b) Tracheae				
	c) Four-chambered h	eart	d) Diaphragm				
120.	0. Which is the most important source of food and fodder?						
	a) Algae	b) Lichen	c) Fungi	d) Cereal			

Answer Key								
Physics			Chemistry		Biology			
1	С		36	c		71	b	106 d
2	С		37	С		72	С	107 b
3	a		38	С		73	С	108 b
4	d		39	а		74	с	109 a
5	b		40	b		75	a	110 c
6	d		41	b		76	а	111 c
7	С		42	b		77	d	112 a
8	b		43	b		78	d	113 b
9	d		44	С		79	а	114 b
10	С		45	b		80	с	115 d
11	а		46	а		81	b	116 a
12	d		47	С		82	b	117 b
13	С		48	С		83	d	118 c
14	а		49	а		84	b	119 d
15	С		50	b		85	С	120 d
16	С		51	b		86	С	
17	С		52	b		87	С	
18	d		53	b		88	С	
19	а		54	b		89	а	
20	d		55	с		90	d	
21	а		56	b		91	b	
22	d		57	b		92	С	
23	а		58	а		93	d	
24	d		59	d		94	С	
25	b		60	d		95	b	
26	b		61	d		96	d	
27	d		62	b		97	d	
28	b		63	а		98	а	
29	С		64	d		99	d	
30	d		65	с		100	а	
31	b		66	b		101	а	
32	а		67	а		102	d	
33	С		68	а		103	d	
34	С		69	а		104	С	
35	С		70	а		105	b	