## University Of Health Sciences, Lahore

Total MCQs: 220



## **Entrance Test 2017**

For F.Sc and Non-F.Sc Students

**Time Allowed: 150 Minutes** 

#### Instructions:

- i. Read The Instructions on the MCQs Reponse form carefully
- ii. Choose the Single Best Answer for each question
- iii. Candidates are strictly prohibited from giving any identification marks except Roll Number and signature in specified columns only

### **COMPULSORY QUESTION FOR IDENTIFICATION**

Q.ID What is the colour of your Question Paper?

A) White

C) Pink

Max Marks: 1100

B) Blue

D) Green



## **BIOLOGY**

1) Low partial pressure of oxy	gen in tissues favours	_ of oxyhaemoglobin.
a) Dissociation	c)Stability	
b)Formation	d) Transformation	
2) Respiratory tubules are tendesser:	med as bronchioles when they att	ain the diameter or
a) 1.2cm	c) 1mm	
b) 1cm	d) 1.2mm	
3) Elastic fibres are absent in	the walls of:	
a) Aorta	c) Veins	
b) Arteries	d) Capillaries	
4) A type of blood cell that pro	oduces heparin is:	
a) Basophil	c) Eosinophil	
b) Neutrophil	d) Monocyte	
5) Thoracic lymph duct of the	lymphatic system opens into	:
a) Superior vena cava	c) Inferior ve	na cava
b) Subclavian Vein	d) Renal vein	
6) Select the part of nephron	which is NOT permeable to water	and stops its outflow:
a) Glomerulus	c) Ascending	g loop
b) Proximal Tubule	d) Desceding	g loop



#### 7) Vessels which carry blood to the glomerulus are called:

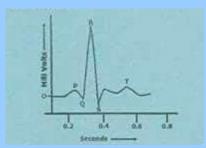
a) Efferent arterioles

c) Vesa recta

b) Renal vein

d) Afferent arterioles

#### 8) In ECG, QRS wave represents:



a) Ventricular systole

c) Diastole

b) Atrial systole

d) Recovery systole

#### 9) When water content in body becomes high, what will happen:

a) ADH release will be inhibited

c) Aldosterone will be released

b) ADH will be released in large amount

d) Anterior pituitary will produce ADH

#### 10) The major factor in producing hypertonic urine is:

a) Glomerulus

c) ADH influencing on collecting duct

b) Influence of aldosterone from

d) Gradual increase in osmolarity .cortex to inner medula

#### 11) What is the least selective process during urine formation:

a) Reabsorption

c) Secretion

b) Pressure filteration

d) Differential permeability



12) The nerve impulse which jumps from no	de to node in myelinated neurons is called as:
a) Resting membrane potential	c) Threshold stimulus
b) Saltatory nerve impulse	d) Initial nerve impulse
13) The CNS is protected by:	
a) Three layers of meninges	c) 4 layers of meninges
b) One layer of moninx	d) 2 layers of meninges
14) White matter of spinal cord is made up o	f:
a) Sensory nerve fibres	c) Motor nerve fibres
b) Myelinated nerve fibres	d) Mixed nerve fibres
15) There are evidences that high levels of a	uminum can lead to the onset of:
a) Parkinson's disease	c) Lesch-Nyhan syndrome
b) Alzheimer's disease	d) Fragile X-syndrome
16) is the structure in female replace:	eproductive system in which fertilization takes
a) Ovaries	c) Cervix
b) Uterus	d) Oviduct
17) Which of the following directly develops	into sperms:
a) Primary spermatocytes	c) Secondary spermatocytes
b) Spermatids	d) Spermatogonia



18) FSH stimultes the production of oest and:	trogen hormone which has two targets;
a) Uterus, posterior pituitary	c) Uterus, anterior pituitary
b) Ovaries, uterus	d) Ovaries, hypothalamus
19) Select the organelle which is only pre	esent in animal cells:
a) Centrioles	c) Microtubules
b) R.E.R	d) Ribosomes
20) Syphillis is a sexually transmitted dis	sease and can also damage:
a) Hair	c) P.N.S
b) Heart	d) Birth canal
21) Spongy bone is always surrounded b	у:
a) Compact bone	c) Osteoblast cells
b) Cartilage	d) Osteoclast cells
22) Bone matrix is hardened by the:	
a) Haversian canals	c) Bone marrow tissues
b) Canaliculfs	d) Calcium phosphate
23) The number of bones forming skull in	n man is:
a) 8	c) 20

d) 22



b) 14

24) The spine consists of linear series of	:	
a) 33 bones	c) 12 bones	
b) 24 bones	d) 7 bones	
25) W.O.F changes occurs when skeletal	muscles contr	act:
a) I-band shortens only		
b) A-band shortens and Z-lines move apa	rt	
c) I-band shortens and Z-lines come clos	e to each other	
d) Actin filament contracts		
26) The thyroxine hormones of thyroid gl	ands act direct	ly on:
a) lodine metabolism		c) Glucose metabolism
b)Protein metabolism		d) Basal metabolic rate
27) All the hormones released by anterior	r pituitary are t	ropic hormones except:
a) TSH	c) ACTH	
b) STH	d) Gonadotro	ophin hormone
28) W.O.F is endocrine as well as exocrin	e:	
a) Liver	c) Thyroid	
b) Adrenals	d) Pancreas	



29) Ovulation is suppressed by progestro	ne via:
a) Only by inhibition of LH	
b) Inhibition of FSH & stimulation of LH	
c) Inhibition of LH & stimultion of FSH	
d) Inhibition of both FSH & LH	
30) The antibody molecule consists of	polypeptide chains:
a) Eight	c) Six
b) Four	d) Two
31) cells survive for a fetissue fluids or lymph:	ew days and secrete a huge no of antibodies in blood,
a) Memory cells	c) T-lymphocytes
b) B-lymphocytes	d) Plasma cells
32) The intermediate protection from infe	ction of snake bite can be obtained by:
a) Active Immunity	c) Passive immunity
b) Natural active immunity	d) Vaccination
33) Chlorophyll molecule contains:	
a) Mg++	c) K+
b) Ca++	d) Na+
34) The tail of chlorophyll molecule is em	bedded in:
a) Membrane of mitochondria	c) Membrane of S.E.R
h) Thylakoid membrane	d) Membrane of R F R



35) Carotenoids absorb light of:	
a) Yellow-orange range	c) Orange-red range
b) Yellow-red range	d) Blue-violet range
36) Chlorophyll 'a' and chlorophyll 'b' differ	in one of the functional groups Chlorophyll 'a' has
a) -CHO	c) -CH3
b) -OH	d) -NH2
37) Glycerate-3-phosphate in the presence stage is reduced to:	e of ATP and reduced NADP from light dependent
a) 3- carbon compound	c) 5-carbon compound
b) Ribulose bisphosphate	d) 6-carbon compound
38) Calvin cycle occurs in:	
a) Grana of chloroplast	c) Chlorophyll (Reaction centre)
b) Stroma of chloroplast	d) Roots of plants
39) Restriction enzyme EcoR1 cuts DNA to	produce:
a) Blunt ends	c) Sticky ends
b) Non-palindromic ends	d) Split ends
40) Restriction endonucleases are produce	ed by:
a) Fungi	c) Bacteria

d) Viruses



b) Algae

41) DNA segments of different lengths can be s	separated by a process of:
a) Western blotting	c) Autoradiography
b) Northern blotting	d) Gel electrophoresis
42) The is the 1st heat stable component used	in PCR:
a) Taq-isomerase	c) Taq-polymerase
b) Taq-helicase	d) Taq SSBp
43) Patients of cystic fibrosis (CF) produse thic	k mucus because of faulty:
a) Trans-membrane carrier	c) Na+ ions
b) Cl- ions	d) Mucus membrane
44) Chemicals used for destroying agricultural	competitors are known as:
a) Antibiotics	c) Disinfectants
b) Pesticides	d) Chemotherpeutic agents
45) How denitrification does occur in soils:	
a) Bacterial reduction of NO <sub>3</sub> <sup>-</sup> ions to N <sub>2</sub> gas	
b) Active uptake of Nitrate ions by plant roots	
c) Drainage of manure from fields	
d) Leaching of nitrate ions	
46) Process by which unrelated species evolve	to functionally resemble each other is called:
a) Convergent evolution	c) Co-evolution
b) Divergent evolution	d) Parallel evolution



47) W.O.F shows evidences from evolution through	gh molecular biology:
a) Development of bronchial arches in verterbrate	e embryo
b) Distribution of species	
c) Comparision of genes and proteins in different	species
d) Study of vestigial organs	
48) Large population size, random mating, no mu the postulates of:	tation and no emigration or immigration are
a) Hardy-Weinberg theorem	c) Mendel's law of segregation
b) Mendel's law of independent assortment	d) Theory presented by
	Schleien and Schwann
49) Pure breeding lines of pea were taken regardi crossed with no intermediate between parents. A results show:	
a) Co-dominance	c) Incomplete dominance
b) Dominance-recessive relationship	d) Over dominance relationship
50) Base substitution, deletion and insertion are 6	examples of:
a) Chromosomal aberration	c) Aneuploidy
b) Point mutation	d) Euploidy
51) The condition in which the heterozygote has a homozygous parents is called as:	a phenotype intermediate between contrasting
a) Dominance	c) Co-dominance
b) Incomplete dominance	d) Over- dominance



52) The interaction between different genes of	ccupying unferent loci is.
a) Dominance ;	c) Pleiotropy
b) Co-dominance ;	d) Epistasis
53) Locus stands for:	
a) Position of gene on homologous chromoso	me
b) Regions of chromosomes	
c) Position of an allele within a DNA molecule	
d) Close regions of same chromosome	
54) Self fertilization of F-1 dihybrids, following	independent assortment of alleles result in: ;
a) 3/16 Tall-round ; 3/16 dwarf-wrinkled	
b) 9/16 Tall-wrinkled ; 3/16 dwarf-round	
c) 9/16 Tall-round ; 3/16 Dwarf-round	
d) 3/16 Tall-wrinkled ; 3/16 Dwarf-round	
55) As a result of cross-fertilization of a true be with that of white coloured flowers, the offspri	reeding pea plant having purple coloured flowers;
with that of white coloured howers, the orispin	ngs will have nowers with.
a) 1/4 purple ; 3/4 white	c) All white
b) 1/4 white; 3/4 purple	d) All purple
b) 174 writte , 074 purple	d) All purple
56) The gene for red-green colour blindness is	present on:
a) Y-chromosome	c) Autosome 7
b) X-chromosome	d) Autosome 9



57) W.O.F structures is present in both plant	and animal cells but is absent in prokaryotic cells: ;	
a) Centrioles ;	c) Plastids	
b) Microtubule ;	d) Sieve-tubes	
58) Cilia and flagella are absent in:		
a) Viruses	c) Higher plants	
b) Bacteria	d) Lower animals	
59) DNA molecule in prokaryotes is:		
a) Single, circular, double stranded molecule	not bound by membrane	
b) Double, circular molecule		
c) Linear double stranded molecule		
d) Single, circular, double stranded, membrane bound		
60) Nucleoid is a structure not found in:		
a) Campylobacter	c) Spirochete	
b) Cyanobacteria	d) Goblet cells	
61) Cell wall structure of a cell of unknown of polysaccharide chain linked with short chain		
a) Bacteria	c) Algae	
b) Fungi Cell	d) Cortex cells	
62) Ribosomes present in prokaryotes are:		
a) 80S	c) 50S	

d) 70S



b) 60S

03) Functionally mesosomes can be com	ipaleu witii.
a) Ribosomes	c) Polysomes
b) Mitochondria	d) Golgi bodies
64) Students were asked to give a guess nucleus W.O.F can be straight away exc	about a unicellular organism with darkly stained luded from the list:
a) Paramecium	c) Plasmodium
b) Amoeba	d) Lactobacillus
65) Binary fission is a characteristic cell (	division NOT found in:
a) Pseudomonas	c) Euglena
b) Campylobacter	d) E.coli
66) are the specific structor	ures related to monosaccharides:
a) Glycosidic bond	c) Maltose
b) Keto group	d) Fructose
67) are the major site for s	storage of glycogen in animal's body:
a) Muscle and liver	c) Around belly and hips
b) Around thighs and belly	d) Liver and kidneys
68) The number of amina acids that have	been found to occur in cells and tissues are:
a) 170	c) 25
b) 20	d) 45



69) Most proteins are made up of \_\_\_\_\_ type of amino acids:

a) 20

c) 25

b) 170

d) 200

70) If in lipids there is an higher proportion of unsaturated fatty acids then it will be:

a) Oils

c) Phenols

b) Waxes

d) Fats

71) When X-rays are passed through crystalline DNA, it shows helix making one twist every:

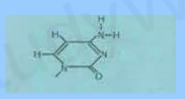
a) 2nm

c) 34nm

b) 3.4nm

d) 4nm

72) Following is the structure of:



a) Uracil

c) Guanine

b) Thymine

d) Cytosine

73) All enzymes are \_\_\_\_\_\_:

a) Fibrous proteins

c) Lipoproteins

b) Low molecular weight proteins

d) Globular proteins

/4) The reactants on which enzyme works	are:
a) Products	c) Substrates
b) Metabolites	d) Catabolites
75) W.O.F comprises of inorganic ions:	
a) Coenzymes	c) Prosthetic group
b) Activators	d) Apoenzyme
76) W.O.F is a non-cellular infecious entity:	
a) Mycoplasma	c) Herpes virus
b) Escherichia coli	d) Diplococcus
77) The viruses can reproduce:	
a) Without invading any cell	c) By mitosis
b) In bacterial cell	d) By meiosis
78) The life cycle in which the phage kills the	e bacteria is known as:
a) Transduction	c) Lytic cycle
b) Temperate phage cycle	d) Lysogenic phage cycle
79) In W.O.F shapes, gut living symbiont Es	cherichia coli is found:
a) Round	c) Spiral
b) Oval	d) Rod



## 80) Chitin, a chemical found in exoskeleton of arthropods is also found in cell wall of: c) Cyanobacteria a) Bacteria b) Fungi d) Algae 81) Snails are the intermediate hosts in: a) Fasciola hepatica c) Schistoma b) Taenia solium d) Ancyclosoma duodenale 82) \_\_\_\_\_ is an intestinal parasite of man belonging to phylum nematoda: a) Taenia solium c) Ascaria lumbricoides b) Wucheronia bancrolti d) Schistoma 83) Food is diverted in the oesophagous by: a) Glottis c) Cheeks b) Tongue d) Epiglottis 84) Label 'a' in the following diagram:

a) Cardiac sphincter

c) Stomach valve

b) Sinoatrial valve

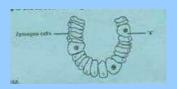
d) Pyloric sphincter



#### 85) Enzyme pepsin acts on:

Options	Substrate	Products
Α	Protein	Polypeptides
В	Polypeptide	Dipeptides
С	Fats	Fatty acids/ glycerol
D	Protein	Amino Acids

#### 86) Following is the structure of gastric glands in stomach wall where 'x' is:



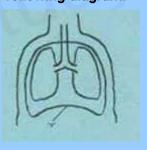
a) Mucosa

c) Visceral fat cells

b) Mucus cells

d) Oxyntic cells

#### 87) Label the part 'Y' in the following diagram:



a) Pleura

c) Chest cavity

b) Diaphragm

d) Intercoastal muscles

#### 88) W.O.F is a respiratory disorder related to malnutrition:

a) Cancer

c) Emphysema

b) Asthma

d) Tuberculosis



## **PHYSICS**

1) The quantities which can be measured accu	ırately are:
a) Base quantities	c) Derived Quantities
b) Physical Quantities	d) Supplementary quntities
2) An observer notes reading of scale from dif- length of wire, what type of error is possible:	ferent angles (parallax) while measuring the
a) Systematic error	c) Precised error
b) Zero error	d) Random error
3) The ratio of displacement along diameter of	f cirle and total distance along circle is:
a) 1:π	c) 2:π
b) π:1	d) π:2
4) Arshad is driving down 7th street, he drives slow down, what is his speed:	150m in 18s Assume he doesnot speed up or
a) 0.38 m/s	c) 8.33 m/s
b) 126 m/s	d) 58.33 m/s
5) The distance travelled by a moving car with equal to:	velocity 15 m/s in 2s, decelerates at 2m/s is
a) 30m	c) 16m
b) 34m	d) 26m



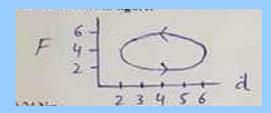
#### 6) Total work done in figure is:







d) Zero Nm



7) Work done will be zero if angle between force and displacement is:

8) If mass 'm' is dropped from height 'h' vertically, 'f' is the force of friction during downward motion and 'v' is the velocity at bottom, following will hold:

a) 
$$\frac{1}{2}$$
 mv<sup>2</sup> = mgh + fh

c) 
$$fh = mgh + \frac{1}{2}mv^2$$

b) mgh = 
$$\frac{1}{2}$$
mv<sup>2</sup> - fh

d) mgh = 
$$\frac{1}{2}$$
mv<sup>2</sup> + fh

9) A body moves in a circle with increasing angular velocity, at time 't'= 6s the angular velocity is 27rad/s... What is the radius of circle where linear velocity is 81cm/s:

10) A moon rotates about its axis. In future scientists may wish to put a satellite into an orbit around the moon such that the satellite remains stationary above one point on moon surface, the period of rotation of moon abou its axis is 27.4 days, what is the radius of required orbit?  $Mm = 7.35 \times 10^{22} kg$ 

c) 
$$8.86 \times 10^7 \,\mathrm{m}$$

	n mass 'm' is attached with spring of spring constant 'k' with time s is replaced by '2m' with same spring, what is the time period 'T2'
a) T <sub>2</sub> = T <sub>1</sub>	c) T <sub>2</sub> = √2 T <sub>1</sub>



d)  $T_2 = T_1 / \sqrt{2}$ 

a) π c) π/4

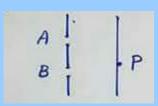
b)  $T_2 = 2T_1$ 

b)  $\pi/2$ 

d) -π

- 13) Angular displacement of a point moving in a circle 10cm when displacement of projection of this point along vertical diameter of circle is 8.66cm will be:
- a) 30° c) 60°
- b) 45° d) 75°
- 14) A wave travelling with speed of 130 m/s having wavelength of 5m. What is its frequency:
- a) 650 Hz c) 26 Hz
- b) 20 Hz d) 3.8 x 10<sup>2</sup> Hz
- 15) A metallic wire of length 2m hooked between two points has tension 10N. If mass per unit length is 0.004 kg/m, their fundamental frequency emitted by wire on vibration is:
- a) 48 Hz c) 12.5 Hz
- b) 24 Hz d) 6.25 Hz

16) Coherent lines emerge from two fine parallel slits 'A' and 'B' as shown in figure:



If 'P' is the position of nth dark fringe from centre of interference, then phase difference between wave train 'A' and 'B' is:

a) nπ radian

c)  $(n+\frac{1}{2})\pi$  radian

b) 2πn radian

d)  $(2n+1)\pi$  radian

17) The wavelength of light which produces second order spectrum on diffraction grating on which 5000 lines/cm are ruled at an angle of 30° will be:

a) 6 x 10<sup>-7</sup> m

c)  $5 \times 10^{-7}$  m

b) 4 x 10<sup>-6</sup> m

d) 3 x 10<sup>-6</sup> m

18) Estimate pressure of air molecules at 273K, if mean square speed is 500 m<sup>2</sup>/s<sup>2</sup> and density of air is 6 kg/m<sup>3</sup>:

a) 1 x 10<sup>3</sup> Pa

c) 1 x 10<sup>2</sup> Pa

b) 2.5 x 10<sup>2</sup> Pa

d) 2.7 x 10<sup>3</sup> Pa

19) 1 mole of a gas occupies volume  $1.00 \times 10^{-2} \, \text{m}^3$  in a gas cylinder whose pressure is equal to  $2.50 \times 10^5 \, \text{Pa}$ . The temperature of cylinder is:

a) 227K

c) 370K

b) 300K

d) 390K

20) The value of pressure and volume of fixed mass of gas in thermometer at triple point of water  $P_f = 1.00 \times 10^5 \, \text{Pa}$  and  $V_f = 1 \times 10^{-3} \, \text{m}^3$ . When  $P = 1.1 \times 10^5 \, \text{Pa}$  and  $V = 1.2 \times 10^{-3} \, \text{m}^3$ . Then temperature of gas is:

a) 361K

c) 273K

b) 298K

d) 250K

21) A point charge at distance 'x' from another point charge experiences a force F of repulsion, which graph shows relationship of force F to 'x':



22) The Coulumbs force between two point charges q1=1C and q2 is 2N. Where distance between them is 3m, The charge q2 is:

a) 1 x 10-9 C

c) 2 x 10<sup>9</sup> C

b) 1 x 10<sup>9</sup> C

d) 4 x 10<sup>-9</sup> C

23) Electric field strength at position vector r=(4i + 3j)m caused by point charge q= 5uC placed at origin is:

a) 1440i + 1080j V/m

c) 1440i+ 1080j N/m

b) 1240i + 1280j N/C

d)1240i + 1080j N/C

24) 2.00 x 106 e passing through a coductor in 1millisecond. Electric current through conductor is:

a)  $3.2 \times 10^{-10} \text{ A}$ 

c)  $320 \times 10^{-10} \text{ A}$ 

b) 32.0 x 10<sup>-9</sup> A

d) 0.320 x 10<sup>-10</sup> A

## 25) A carbon resistor connected to a battery of 50V and 2A current is passing throug it. If voltage is increased to 75V then current will be:

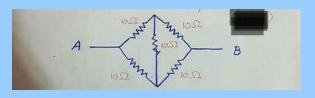
a) 1.5 A

c) 4.5 A

b) 3A

d) 6A

#### 26) Effective resistance between point A and B is:



a) 40 Ohms

c) 10 Ohms

b) 50 Ohms

d) 30 Ohms

27) Electric current is flowing through the circuit as shown in figure, what will be the direction of magnetic lines of force:

a) Clockwise

c) From top to bottom

b) Anticlockwise

- d) From bottom to top
- 28) The magnetic flux linked with a solenoid of area 'A', having 'N' turns at right angle to magnetic field is:
- a) NBA

c) 1/2NBA

b) BA

d) BAcos(theeta)

- 29) A charge projected with velocity of 10m/s in a magnetic fiels of 10T at an angle of 60°, if force exerted on charge is  $2.78 \times 10-17$  N, then value of charge is:
- a) 1.6 x 10<sup>-19</sup> C

c)  $3.2 \times 10^{-19} \text{ C}$ 

b) 2.7 x 10<sup>-19</sup> C

- d) 4.8 x 10<sup>-19</sup> C
- 30)The value of magnetic flux is 10Wb, when magnetic lines of force containing magnetic field strength of 1T passing through unit area of 10m<sup>2</sup>, then angle between magnetic field and unit area is:
- a) 360°

c) 90°

b) 180°

- d) 45°
- 31) A loop of 5 turns of wire is placed in uniform magnetic field of 0.5T, then area of loop shrinks at a constant rate of 10 m<sup>2</sup>/s, the emf induced is:
- a) 2.5V

c) 250V

b) 25V

- d) 0.25V
- 32) The phase at negative peak of AC voltage is:
- a)  $\pi/2$

 $c)3\pi/2$ 

b) π

- d)  $2\pi/3$
- 33) A 1.25cm diameter cylinder is subjected to load of 2500kg, stress on bar is:
- a) 200 Pa

c) 2 x 10<sup>6</sup> Pa

b) 2 x 10<sup>5</sup> Pa

- d) 2 x 10<sup>9</sup> Pa
- 34) Output voltage of rectifier is not smooth, it can be made smooth by a circuit known as:
- a) Wheatstone Circuit

c) Filter circuit

b) Bridge circuit

d) Ripple circuit

35) A wire of length 2m is attached with mass of 5kg vertically, tensile strain of wire is  $0.3 \times 10^{-3}$ , the extension in wire is:

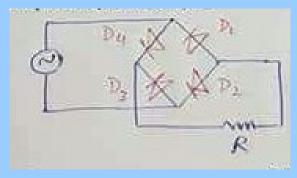
a) 1.5mm

c) 0.15mm

b) 2mm

d) 0.6mm

36) What happens in positive cycle of AC input?



a) D<sub>1</sub> and D<sub>3</sub> conducts

c) D<sub>3</sub> and D<sub>4</sub> conducts

b) D<sub>1</sub> and D<sub>2</sub> conducts

d) D<sub>2</sub> and D<sub>4</sub> conducts

37) If signal is applied to input of non-inverting amplifier through resistance of 100 kOhm, and the value of feedback resistance is 10kOhm, the gain is:

a) 11

c) 1.1

b) 10

d) 0.11

38) The frequency of photon having momentum  $4.42 \times 10^{-26}$  Ns is:

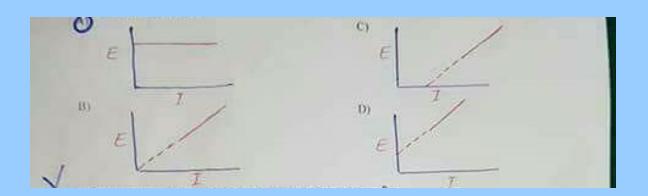
a) 2.00 x 10<sup>16</sup> Hz

c) 5.00 x 10<sup>16</sup> Hz

b) 2.00 x 10<sup>14</sup> Hz

d) 2.00 x 10<sup>18</sup> Hz

39) The max K.E, 'E' of photoelectrons ejected by a light of certain wavelength from a metal is; measured as a fucnction of intensity 'I' of light. Which graph represents the way 'E' depends on; 'I':



40) The momentum of wave where wavelength  $1.32 \times 10^{-9}$  m

a) 
$$5.00 \times 10^{-25} \, \text{Ns}$$

c) 
$$5.00 \times 10^{-43} \text{ Ns}$$

b) 
$$5.00 \times 10^{-26} \text{ Ns}$$

41) Ionization energy of hydrogen atom is:

42) Complete the equation

d) 
$$^{a+1}_{b+1}Z$$

43) The quantity of uranium is 400g, the amount of uranium left after 3 half lives is:

44) The mass of Radium atom decreases	by 8.6 x 10−3 kg, mass defect equivalent to energy is:
a) 4.48 MeV	c) 3 x 10 <sup>2</sup> MeV
b) 4.84 MeV	d) 4.84 eV
<u>E</u>	NGLISH
Choose the Best option:	
1) A voice us from the either	r side of the street
a) Addled	c) Transcend
b) Hailed	d) Purified
<ul><li>2) Many of the houses lacked even the ba</li><li>a) Adroitness</li><li>b) Anomaly</li></ul>	sic c) Amenities d) Behest
3) The system has the to run	more than one program at the same time
a) Acumen	c) Cadaver

4) The soviet union was so vast and \_\_\_\_\_ that it comprised all the concievable world.

a) Incisive

b) Ability

c) Hermetic

d) Adroitness

b) Prolific

d) Platonic



SPOT THE ERROR: In the following sentences some segments of each sentences are underlined and written in brackets. Your task is to identify that underlined segment of; the segment that contains the mistake that needs to be corrected. Fill the circle; corresponding to that letter outside the bracket of the segment in the MCQ response; form.

- 5) When Maulvi Abul reached (Shamim Ahmed's new shop,)<sup>a</sup> he found (a crowd)<sup>b</sup> had already assembled (there to watch)<sup>c</sup> (the proceeding.)<sup>d</sup>
- 6) (One of his hands was)<sup>a</sup> slipped (into a pocket)<sup>b</sup> of his overcoat (while in other)<sup>c</sup> he held a short polished cane which (every now and then)<sup>d</sup> he twirled jauntily.
- 7) The finder is requested  $(to return)^a$  the purse  $(to the mayor office)^b$  or to  $(Mr. James)^c$  (the caretaker of this)  $^d$  public hall.
- 8) He told them (<u>how the glory of</u>)<sup>a</sup> their country and (<u>of its ancient throne</u>)<sup>b</sup> would be increased if (<u>the post of court</u>)<sup>c</sup> acrobat (<u>was created</u>.)<sup>d</sup>
- 9) With this faith we will be able  $(to hew out)^a$   $(from the mountain)^b$   $(of despair,)^c$   $(a stone of hope.)^d$
- 10) (<u>If it was possible</u>)<sup>a</sup> to get (<u>the necessities of life</u>)<sup>b</sup> from the heavens (<u>through prayers</u>.)<sup>c</sup>
  Maulvi Abul would have prayed to Allah for a pair of shoes (for his Umda.)<sup>d</sup>



In each of the following que<mark>stions four alternative sentences</mark> are given. Choose the ; CORRECT one and fill the circle corresponding to that letter in the MCQ Response Form.

#### 11)

- a) Journalists must be well acquainted in the ethics of journalism.
- b) Journalists must be well acquainted with the ethics off journalism.
- c) Journalists must be well acquainted from the ethics of journalism.
- d) Journalists must be well acquainted with the ethics of journalism.

#### 12)

- a) Heat the olive oil into a heavy pan.
- b) Heat the olive oil in a heavy pan.
- c) Heat the olive oil with a heavy pan.
- d) Heat the olive oil on a heavy pan.

#### 13)

- a) She made no attempt to be friendly on anything but the most superficial level.
- b) She made no attempt to be friendly on anything but with most superficial level.
- c) She made no attempt to be friendly on anything but the most superficial level.
- d) She made no attempt to be friendly on anything but with the most superficial level.

#### 14)

- a) He abdicated on favour of his son.
- b) He abdicated in favour of his son.
- c) He abdicated by favour of his son.
- d) He abdicated as favour of his son.



#### 15)

- a) He was abetted by the deception by his wife.
- b) He was abetted from the deception by his wife.
- c) He was abetted in the deception by his wife.
- d) He was abetted to the deception by his wife.

#### 16)

- a) The country is stepping back from the edge of an abyss.
- b) The country is stepping back in the edge of an abyss.
- c) The country is stepping back of the edge of an abyss.
- d) The country is stepping back through the edge of an abyss.

#### 17)

- a) He lived at the style befitting a gentleman.
- b) He lived through the style befitting a gentleman.
- c) He lived by the style befitting a gentleman.
- d) He lived in the style befitting a gentleman.

#### 18)

- a) He have decided to grow a beard and a moustache.
- b) He has decided to grow a beard and a moustache.
- c) He has been decided to grow a beard and a moustache.
- d) He have been decided to grow a beard and a moustache.



#### 19)

- a) Their divorce filled a lot of column inches in the national newspaper.
- b) Their divorce filled lot of column inches in the national newspaper.
- c) Their divorce filled a lot of column inches to the national newspaper.
- d) Their divorce filled lot of column inches to the national newspaper.

#### 20)

- a) The horse reared off on its hind legs.
- b) The horse reared of on its hind legs.
- c) The horse reared up on its hind legs.
- d) The horse reared down on its hind legs.

In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate circle on the MCQ response form.

#### 21) CENTENNIAL:

- a) A hundredth anniversary.
- b) Relating to continents.
- c) Relating to sins.
- d) Relating to countries.

#### 22) COBBLE:

a) Demon c) Convention

b) Cockerel d) Stone



23) COCCYX:	
a) Drug	c) Bone
b) Force	d) Shield
<ul><li>24) COMPLACENT:</li><li>a) Self-regarding</li><li>b) Self-conceited</li></ul>	c) Talented d) Self-control
25) ACCESSORY:	
a) Fitting	c) Mattock
b) Canabis	d) Intrepidity
<ul><li>26) AFFINITY:</li><li>a) Coenobium</li><li>b) Magnate</li></ul>	c) Propensity d) Tear
27) AMORPHOUS:	
a) Flagrant	c) Voluptuous
b) Nebulous	d) Nugatory
28) ADMONITION:	
a) Juvenility	c) Acquisition
b) Puberty	d) Bashing



#### 29) AUDACIOUS:

a) Mawkish c) Perl

b) Autocratic d) Oozy

#### 30) BOUQUET:

a) Posy c) Necropsy

b) Prolegomena d) Damper



# **ANSWER KEYS**

## **BIOLOGY**

1	а	2	С	3	С	4	а	5	b
6	С	7	d	8	а	9	а	10	С
11	b	12	b	13	а	14	b	15	b
16	d	17	b	18	С	19	а	20	b
21	а	22	d	23	d	24	а	25	С
26	d	27	b	28	d	29	а	30	b
31	d	32	С	33	а	34	b	35	d
36	С	37	а	38	b	39	С	40	С
41	d	42	С	43	а	44	b	45	а
46	а	47	С	48	а	49	b	50	b
51	d	52	d	53	С	54	d	55	d
56	b	57	b	58	а	59	а	60	d

61	a	62	d	63	b	64	d	65	С
66	b	67	а	68	а	69	С	70	а
71	b	72	d	73	d	74	С	75	b
76	С	77	b	78	С	79	d	80	b
81	а	82	С	83	d	84	d	85	а
86	d	87	b	88	d				



# **PHYSICS**

1	b	2	d	3	а	4	С	5	<u>d</u>
6	d	7	С	8	d	9	d	10	<u>C</u>
11	С	12	b	13	С	14	С	15	<u>C</u>
16	С	17	С	18	а	19	b	20	<u>a</u>
21	С	22	а	23	а	24	а	25	<u>b</u>
26	С	27	а	28	а	29	С	30	<u>b</u>
31	b	32	С	33	b	34	С	35	<u>d</u>
36	d	37	С	38	а	39	а	40	X
41	d	42	С	43	b	44	X		



## **ENGLISH**

1	b	2	С	3	b	4	С	5	d
6	С	7	b	8	d	9	b	10	а
11	d	12	b	13	С	14	b	15	С
16	а	17	d	18	b	19	а	20	С
21	а	22	d	23	С	24	а	25	а
26	С	27	b	28	d	29	С	30	а

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# THE END

