VIBRANT ACADEMY

(India) Private Limited

BIOLOGY

TIME: 2 Hrs. Total Marks: 60

FACULTY SELECTION TEST

INSTRUCTIONS:

- 1. Attempt all questions.
- 2. Indicate your answer on the question paper itself.
- 3. Each question has four options. Out of these only one is the correct answer.
- 4. Each correct answer carries +1 marks. for each wrong answer 0.25 marks will be deducted.

Q.1	Autonomic nervous system controls - (A) Voluntary activities (C) Neither voluntary nor involuntary activities		(B) Involuntary activities (D) Both voluntary & involuntary activities		
Q.2	Seismonastic movements are shown by which place (A) Indian telegraph plant (C) Cucumber plant		lant - (B) 'Touch-me-not' plant (D) Rose plant		
Q.3	Cerebral hemispheres are the centres of - (A) Posture & Equilibrium (C) Thinking & Memory		(B) Reflex action (D) All of these		
Q.4	A small portion of vas de (A) Vasectomy	eferens is removed in - (B) Tubectomy	(C) IUCD	(D) Barrier method	
Q.5	Who provided experime (A) Oparin & Haldane	ntal evidence to support ((B) Miller & Urey	theory of origin of life from (C) Watson & Crick	inanimate matter? (D) Mendel & Darwin	
Q.6	The reptile in which high (A) a lizard	incubation temperature (B) a turtle	results in male progeny is (C) a snake	s - (D) a crocodile	
Q.7	The chlorophylls absorb (A) Blue & green light	mostly - (B) Blue & red light	(C) Green & red light	(D) Green & yellow light	
Q.8	As blood flows out of a c (A) Thrombin	lamaged blood vessel, b (B) Prothrombin	lood platelets release a su (C) Thromboplastin	ubstance called - (D) Fibrin	
Q.9	The lungs are covered b (A) Hepatic caeca	y two thin membranes ca (B) Myocardium	alled - (C) Alveoli	(D) Pleura	
Q.10	Name the hormone which (A) Oxytocin	ch is commonly termed 'b (B) Vasopressin	oirth hormone' & 'milk ejec (C) Thyroxin	cting' hormone - (D) Luteinising hormone	
Q.11	be that of - (A) Yeast with bud		ler size attached to the top of the first cell. This slide cou (B) Amoeba with bud (D) Two buds of yeast		
Q.12	Which of the following c (A) Histiocytes	ell, is amoeboid in nature (B) Fibroblast	e - (C) Mast cells	(D) Lymphoids	
Q.13	Hensen's discs are foun (A) Nervous tissue	nd in - (B) Muscular tissue	(C) Connective tissue	(D) Epithelial tissue	
Q.14	Which of the following is (A) Cowpea	s not a weed ? (B) Motha	(C) Parthenium	(D) Xanthium	

Q.15	Which one of the follow (A) Apis dorsata	ing species of honey bee (B) Apis florae	is an Italian species - (C) Apis cerana indica	(D) Apis mellifera
Q.16	Which one of the follow (A) Rohus	ing fishes is a surface fee (B) Mrigals	eder ? (C) Common carps	(D) catlas
Q.17	The idea 'omnis cellula	e cellula' which means th	at all living cells arise fror	m pre-existing cells was given by
	(A) Robert brown	(B) Purkinje	(C) Rudolf Virchow	(D) Schleiden
Q.18	Silver nitrate solution is (A) Endoplasmic reticul (C) Nucleus	-	(B) Golgi apparatus (D) Mitochondria	
Q.19	Cell theory was given by - (A) Schleiden & Schwann (C) Hooke		(B) Virchow (D) Haeckel	
Q.20	The undefined nuclear r (A) Nucleus	region of prokaryotes are (B) Nucleolus	also known as - (C) Nucleic acid	(D) Nucleoid
Q.21	Starch grain of potato a (A) Oval	re - (B) Hexagonal	(C) Rod shaped	(D) Rectangular
Q.22	Intercalated disc is pres (A) Cardiac muscle	sent in - (B) Striated muscle	(C) neuron	(D) Smooth muscle
Q.23	Which of the following of (A) Companion cell	does not lose their nucleu (B) Red blood cells	is at maturity? (C) Vessel	(D) Sieve tube cells
Q.24	•	strial environment has be n (B) Conducting tissue	en made possible by the p (C) Apical meristem	oresence of - (D) Parenchymatous tissue
Q.25	The water conducting ti (A) Vessels	ssue, generally present ii (B) Sieve tube	n gymnosperm, is - (C) Tracheids	(D) Xylem fibers
Q.26		pervious to water & gase: (B) Lipids	•	(D) Lignin
Q.27	Black dot like structures (A) Spores	s seen in the underside o (B) Sori	f fern leaflets are - (C) Sporophylls	(D) Seeds
Q.28	Fruit is formed by - (A) Seed	(B) Leaf	(C) Stem	(D) Ovary
Q.29	Which one of the follow (A) Ascaris	ing causes kala-azar ? (B) Trypanosoma	(C) Leishmania	(D) Salmonella
Q.30	Which of the following b (A) E-coli	pacterium causes peptic (B) Helicobacter pylori		(D) Cephaleuros
Q.31	Skeleton is made entire (A) Sharks	ely of cartilage in - (B) Tuna	(C) Rohu	(D) Labeo
Q.32	The book 'Systema Nat (A) Linnaeus	cure' was written by - (B) Haeckel	(C) Whittaker	(D) Robert brown
Q.33	Karl von linne was invol (A) Morphology	ved with which branch of (B) Taxonomy	science ? (C) physiology	(D) Medicine

Q.34	(A) Leaf	ns (antheridia & archegor (B) Leaflet	nia) on - (C) Pinna	(D) Prothallus
Q.35	The five kingdom classif (A) Complexity of cell st (C) Mode of nutrition		(B) Complexity of organi (D) All	sm's body
Q.36	Who introduced the sys (A) Robert Whittaker	tem of scientific nomenc (B) Carolus Linnaeus	lature of organisms - (C) Robert hooke	(D) Ernst haeckel
Q.37	Hard calcium carbonate (A) Echinodermata	e structure are used as sl (B) Protochordata	keleton by - (C) Arthropoda	(D) Nematoda
Q.38	The feature that is not a (A) Presence of notocho (C) Jointed legs	characteristic of protochord	ordata ? (B) Bilateral symmetry 8 (D) Presence of circulate	
Q.39	Sameer brought a free flit under a microscope -	oating, bright green, silky	mass from the surface of	a fresh water pond. He observed
	(A) Sargassum	(B) Spirogyra	(C) Selaginella	(D) Sphagnum
Q.40	Chewing mouth part are (A) Birds	found in - (B) Fish	(C) Cockroach	(D) Earthworm
Q.41	A specimen of a fish wa would look for - (A) Operculum (C) Dorsal tubular nerve		entify the externally visible (B) Notochord (D) Post anal tail	chordate features in it. Students
Q.42	Cretinism in infants occurs due to - (A) Hypersecretion of thyroid hormones (B) Hyposecretion of thyroid hormone (D) Hyposecretion of alcoholic description des			
Q.43	Nitrosomonas bacteria c (A) Nitrite to nitrate	convert - (B) Elemental nitrogen	(C) Ammonia into nitrite	(D) nitrate into ammonia
Q.44 Q.45	Major source of mineral (A) Parent rock Oxygen is harmful for -	in soil is the - (B) Animals	(C) Plants	(D) Bacteria
	(A) Ferns (C) Nitrogen fixing bacte	eria	(B) Chara (D) Mango tree	
Q.46	Growth of Lichens on ba (A) Moss	arren rocks is followed by (B) Ferns	the growth of - (C) Gymnosperms	(D) Algae
Q.47	T cells are formed in - (A) Brain	(B) Liver	(C) Thymus	(D) Bersa
Q.48	Which of the following technique can be use to analyse the amount of urea, glucose, protein in body fluid A) Autoanalyzer (B) Ultrasound immaging C) Nuclear magnetic resonance (D) Tomographic scanning			
Q.49	Bipolar neurons are pres (A) Retina	sent in - (B) Alimentary canal	(C) Limbs	(D) heart
Q.50	The stage at which DNA (A) prophase	Vchromosome replicates (B) interphase	s is (C) metaphase	(D) telophase
Q.51	The process of splitting (A) Haemolysis	of water during photosyn (B) Photolysis	thesis is called - (C) Hydrolysis	(D) Plasmolysis

Q.52	Krebs' cycle occurs in - (A) Cytoplasm	(B) Chloroplast	(C) Ribosome	(D) Mitochondria
Q.53	Glycolysis occurs in - (A) Cytoplasm	(B) Mitochondria	(C) Ribosomes	(D) Chloroplast
Q.54	Pigment haemoglobin is (A) Blood platelets	present in - (B) WBC	(C) RBC	(D) Blood plasma
Q.55	Which of following blood (A) Aorta	vessels carry deoxygena (B) Pulmonary vein	ated blood ? (C) Pulmonary artery	(D) Capillaries
Q.56	Heart chamber having the (A) Left ventricle	ne largest size and thicke (B) Right auricle	st wall is - (C) Right ventricle	(D) Left auricle
Q.57	Valve present between le (A) Tricuspid valve	eft auricle and left ventricl (B) Transverse valve	e is - (C) Semilunar valve	(D) Bicuspid valve
Q.58	After mitosis, the number of chromosomes in the daughter cells shall be			
	(A) $\frac{1}{4}$ of parent cell		(B) $\frac{1}{2}$ of parent cell	
	(C) double of parent cell		(D) same as parent cell	
Q.59	Surgical removal of both kidneys would result in (A) Urea will not be excreted (C) Water will accumulate in blood		death because - (B) Glucose will be lost from body (D) Immunity will be suppressed	
Q.60	Double circulation, i.e., blood flows through the heart twice during one cycle of passage through the body, is			
	exhibited by - (A) Human beings	(B) Pisces	(C) Birds	(D) Both (A) and (C)