Question No.	Question description	Answer
01	Which chamber of the heart has thickest muscular wall:	
	a). Right atrium b). Left atrium	D
	c). Right ventricle d). Left ventricle	
02	Kinesin & Dynein are examples of molecular motors	
	involved in:	D
	a). Muscle contraction b). Mitosis & cell division	В
	c). synaptic transmission d). Lipid synthesis	
03	Feedback gain in homeostasis is	
	a). Ratio of the correction applied to the error remaining	
	b). Difference between set point and deviation	Α
	c). Rate of change in the system output	
	d). Ratio of stimulus to response.	
04	Which of the following blood component is primarily	
	indicated for correcting coagulation factor deficiency	В
	a). packed RBC b) Fresh frozen plasma	D
	c). Platelets d). cryoprecipitates	
05	Which enzyme is not considered as an enzymatic	
	antioxidant	D
	a). Superoxide dismutase b). Catalase	U
	c). Glutathione Peroxidase d) Glucose Oxidase	
06	Which taste sensation is associated with perception of	
	savoury or meaty flavours	D
	a) Sweet b) Sour c). Salty d) Umami	
07	An athlete finishes a 200 m race in 1 minute. His arterial	
	pressure rises to 140/90 mmHg. What will happen to his	
	cerebral blood flow:	C
	a). Increases b). Decreases	
	c). Remains same d). can't say	
80	Activation of sympathetic nervous system leads to the	
	fight or flight reaction; which of the following is not part	
	of the response	
	a). Vasodilation in skeletal muscle.	D
	b). Sweating	
	c). Bladder relaxation	
	d). increased gut motility	
09	Not a glycoprotein	D
	a) FSH b) LH c) TSH d) GnRH	ט
10	Action of Atrial Natriuretic Factor (ANF) is mediated by	
	a). Inositol PO ₄ b). DAG	C
	c). Cyclic GMP d). cyclic AMP	
11	Anti-inflammatory action of steroids is due to	
	a). Inhibition of phospholipase A ₂	
	b). Inhibition of cyclo oxygenase	Δ
	c). increased activity of Lipo-lipase	
		i

12	Sertoli cells have receptors for	
	a). FSH b). LH	Δ
	c). Inhibin d) GnRH	
13	Physiological mechanism behind transcutaneous	
	electrical stimulation (.TENS) to provide pain relief is by	
	a). Inhibitory neurotransmitter at cerebral cortex	
	b). Adrenergic receptor stimulation	C
	c) Gating of pain at spinal cord.	
	d). Descending pain inhibition tracts	
14	Normal insensible water loss per day	
	a) 550 ml b) 100 ml c) 700 ml d) 1200 ml	C
15	Hormone synthesized by smooth Endoplasmic Reticulum	
	a). Protein hormone b) steroid hormone	В
	c). Catecholamine d). Peptide hormone	
16	Minimum urine osmolality that can be achieved by	
	human kidney	
	a) 100 m Osm/L b) 80m Osm/L	
	c). 50 m Osm/L d) 20m Osm/L	
17	What are the EEG waves recorded for parieto occipital	
	region with subject awake & eyes closed	Α
	a). Alpha waves b) Beta waves	A
	c) Delta waves d) Theta waves	
18	Salivation of a dog when food is given after bell rings	_
	a). Conditioned reflex b) Reinforcement	Α
	c). Habituation d) Unconditioned reflex	
19	Rods and cones differ in all except	
	a). light sensitivity b) signal transduction	В
20	c). wavelength d). Acuity	
20	Odorant receptors are	
	a). Thermoreceptors b). Mechanoreceptors	
21	c). Chemoreceptors d). Photoreceptors	
Z1	Protanopes have difficulty in identifying which colour a). Red b) Blue c). Green d) Black	Α
22	True about Sham rage is	
~~	a). is goal directed	
	b). occurs in decorticate animals	В
	c). due to removal of Hypothalamus	D
	d). appears slowly & goes slowly	
23	Kluver-Bucy syndrome is due to the lesion in	
	a). cerebellum b) thalamus	D
	b). Hypothalamus d) Temporal lobe	
24	First physiological response to high environmental	
_ •	temperature is	
	a). Sweating b). Vasodilation	В
	c).Decreased heat production	
	d). Non shivering thermogenesis	

25	Cerebellar nucleus responsible for slow pursuit &	
	saccades	
	a) Dentate b) Emboliformis	
	c) Fastigial d) Globose	
26	Primary stimulus for peripheral chemoreceptors is	_
	a). \ PO ₂ b) \ PCO ₂	Α
	c). † PCO ₂ d)	
27	True about ondine curse is	
	a). voluntary control of respiration is disrupted	_
	b). automated control of respiration intact	D
	c). seen in spinal poliomyelitis	
	d). patients stay alive by breathing voluntarily	
28	Pacemaker regulating rate of respiration	
	a). Pneumotaxic centre b) Apneustic centre	D
	c). Dorsal group of neurons d) Pre-Botzinger complex	
29	Inhibitory neurotransmitter is	
	a). Glycine b) Glutamate	C
	c). Gamma Amino Butyric acid d) Taurine	
30	All are actions of substance P except	
	a). vasoconstriction b). Pain transmission	Α
	c). Axon Reflex d). Peristalsis	
31	Maximum number of mitochondria are present in cells of	_
	which part of nephron	Α
22	a). PCT b). LOH c). DCT d). collecting duct	
32	Erythropoietin is secreted by all except	D
	a). Hemangioblastoma b). Hepatoma c). Repair cell carringma d). Adreno certical tumours	D
33	c). Renal cell carcinoma d). Adrenocortical tumours	
33	All the following combinations are correct except	D
	a). Renin-kidney b) Renin substrate -liver	D
	c). ACE-lung endothelium d). Angiotensinogen-kidney	
34	STOKE ADAMS SYNDROME is the episodes of fainting	
	due to a)head injury b)ventricular tachycardia	D
	a friedu ilijui y b freiliticulai taciiycalula	U
	c). hyponatremia d).complete heart block	
35	True about G-protein except	
33	a). G-channels b). phosphorylase formation	
	c). Made up of 4 units d) related to Ras oncogene	C
36	Apparent mineralocorticoid excess is due to	
30	a). SGK gene b). CYP 118	_
	c). CYP 11A ₂ d) deficiency of 11 beta	D
	hydroxysteroid dehydrogenase	
37	Which of the following organ in males secretes zinc in	
	large amount	
	a). seminal vesicles b) prostate	В
	c). Epididymis d) Vas	
	c). Epididyiiiis u) vas	

38	Which is the best contraceptive for a lady before first	
	child birth	A
	a) O C P b) I U D	A
	c). Tubectomy d). diaphragm	
39	Which of the following is not a glial cell	_
	a). Astrocyte b). Oligodendrocyte	C
	b). Golgi cells d) Microglial cells	
40	Dissociated Anaesthesia is seen in	
	a) Dorsal root lesion b) Nerve lesion	C
	c). Syringomyelia d) Thalamic lesion	
41	Optical righting reflex is integrated in	В
	a). Medulla b) Cortex c) Pons d) Mid brain	
42	Consolidation of memory occurs in	_
	a). prefrontal cortex b). Hippocampus	В
	c). Neo cortex d). Amygdala	
43	Which of the following retinal cell secrete Acetylcholine	_
	a). Amacrine cell b) Bipolar cell	Α
	c). Ganglion cell d) Horizontal cell	
44	Exercise that strengthens the muscle & increase muscle	
	endurance	C
	a) Isotonic b). Aerobic	
	c). Isometric d) None	
45	Which of the following produce high anion gap acidosis	
	a). Diarrhoea b). Renal tubule acidosis	C
4.6	c). Renal failure d). ureterosigmoidostomy	
46	Equilibrium potential is calculated by	_
	a). katz equation b). Gibb's Donnan equilibrium	D
47	c). Goldman Equation d). Nernst Equation	
47	Interstitial fluid volume can be determined by	
	a). Radioactive iodine & radioactive water	D
	b). Radioactive water & radiolabeled albumin	D
	c). Radioactive sodium & radioactive water d). Radioactive sodium & radiolabeled albumin	
48	Glutathiones within the RBC	
40	a). act as an enzyme of glycolytic system	
	b). prevent damage to Haemoglobin	D
	, , ,	В
	c). required for formation of NADPH	
49	d). maintain shape & flexibility of RBC	
47	Not an acute phase reactant a). Hemopexin b) Haptoglobin	A
	c). Orosomucoid protein d) Serum amyloid protein	A
ΕΛ	Clathrin is used in	
50		
	a). Receptor mediated endocytosis	A
	b). Exocytosis	A
	c). cell to cell adhesion	
	d). Facilitated diffusion	

51	Thromboasthenin is a	
	a). Coagulation factor	
	b). Platelet derived growth factor	D
	c). Thrombosis inhibiting factor	
	d). Thrombosis promoting protein	
52	Neurapraxia is a type of	
	a). Axonal disruption	
	b). Endoneurium disruption	C
	c). Physiological conduction block	
	d).Nerve trunk discontinuation	
53	Increase in cytoplasmic calcium during smooth muscle	
	contraction is due to	D
	a). c-AMP b). c-GMP	D
	c). Serine Kinase d). IP ₃ -DAG	
54	Which of the following is not part of parasympathetic	
	nervous system	
	a). Edinger Westphal Nucleus	C
	b). Nucleus Tractus Solitarius	
	c). Nucleus Gigantocellularis	
	d). Nucleus Ambiguus	
55	Which among the following time domain indices of HRV	
	is a good parasympathetic marker	В
	a). Mean RR b). RMSSD	D
	c). NN50 d). LF-HF ratio	
56	Tall and peaked T-wave seen in	_
	a). Hyperkalemia b). Hypernatremia	Α
	c). Hypokalemia d). Hypercalcemia	
57	Ventilation perfusion ratio is maximum at	_
	a). Apex of lung b). base of lung	Α
	c). Posterior lobe of lung d). Middle of lung	
58	Depth of inspiration is controlled by	
	a). Pneumotaxic centre b) Posterior medulla	C
	c). Apneustic centre d) Pons	
59	Which of the following is not a gastric function test	
	a). Histamine test b) secretin test	В
	c). Insulin stress test d). Pentagastrin test	
60	Migratory motor complex in gut reappears after interval	
	of b) 00 main that b) 130 main that	Λ
	a) 90 minutes b). 120 minutes	A
	c). 60 minutes d). 150 minutes	