## PROVISIONAL ANSWER KEY

		Question Paper Code:	95/2022/OL
		Category Code:	644/2021
		Exam:	Assistant Professor in Physiology
		Date of Test	02-12-2022
		Department	Medical Education
		Alphacode	A
Ques	stion1:-Pulse rate in at	rial fibrillation is	
	A:-120-180/min		
	B:-180-240/min		
	C:-240-320/min		
	D:-320-400/min		
	Correct Answer:- Opti	on-D	
Ques	stion2:-The percentage	of blood that is present in	capillaries is
	A:-5%		
	B:-10%		
	C:-15%		
	D:-20%		
	Correct Answer:- Opti	on-A	
Ques	stion3:-Angiotensinoge	en is produced by	
	A:-Liver		
	B:-Kidney		
	C:-Hypothalamus		
	D:-Atrium		
	Correct Answer:- Opti	on-A	
Ques	stion4:-The most sensi	tive index of myocardial inf	arcition is a rise in the plasma level of this enzyme
Ques	stion4:-The most sensi		arcition is a rise in the plasma level of this enzyme
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Ques	A:-Tissue creatine kinase BB:-Creatine kinase MB C:-Creatine kinase MB D:-Creatine kinase BB Correct Answer:- Option stion5:-y descend in JV A:-Atrial diastole B:-Closure of the triculor C:-Opening of tricuspion D:-Isovolumetric relax Correct Answer:- Option stion6:-All of the follow A:-Increase in haemat B:-HbO <sub>2</sub> dissociation cu C:-decreased protein	on-C P is due to spid valve d valve sation of right ventricle on-C ing occur when the blood fl cocrit urve shifts to the left	
Ques	A:-Tissue creatine kinase BB:-Creatine kinase MN C:-Creatine kinase MB D:-Creatine kinase BB Correct Answer:- Optistion5:-y descend in JV A:-Atrial diastole B:-Closure of the tricus C:-Opening of tricuspi D:-Isovolumetric relax Correct Answer:- Optistion6:-All of the follow A:-Increase in haemat B:-Hb0 <sub>2</sub> dissociation cu C:-decreased protein D:-Decrease in PH Correct Answer:- Opti	on-C P is due to spid valve d valve sation of right ventricle on-C ing occur when the blood fl cocrit urve shifts to the left	ows through the capillaries except
Ques	A:-Tissue creatine kinase BB:-Creatine kinase MN C:-Creatine kinase MB D:-Creatine kinase BB Correct Answer:- Optistion5:-y descend in JV A:-Atrial diastole B:-Closure of the tricus C:-Opening of tricuspi D:-Isovolumetric relax Correct Answer:- Optistion6:-All of the follow A:-Increase in haemat B:-Hb0 <sub>2</sub> dissociation cu C:-decreased protein D:-Decrease in PH Correct Answer:- Opti	ase  If  Bon-C  P is due to  spid valve d valve sation of right ventricle on-C ring occur when the blood fl cocrit urve shifts to the left content	ows through the capillaries except
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Ques	A:-Tissue creatine kinase B:-Creatine kinase MN C:-Creatine kinase ME D:-Creatine kinase BE Correct Answer:- Option stion5:-y descend in JV A:-Atrial diastole B:-Closure of the triculous of the	ase  If  Bon-C  P is due to  spid valve d valve sation of right ventricle on-C ring occur when the blood fl cocrit urve shifts to the left content	ows through the capillaries except
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B:-Decrease in the activity of renin angiotensin mechanism
C:-Arteiolar dilation
D:-Initiation of cerebral ischaemic response
Correct Answer:- Option-A
Question9:-Myocardial oxygen demand is
A:-Inversely proportional to heart rate
B:-Directly proportional to heart rate
C:-Increased by digitalis
D:-Not related to heartrate
Correct Answer:- Option-B
Question10:-The reflex that helps in maintain celebral blood flow constant despite the increase in ICP.
A:-Cushings reflex
B:-Bainbridge reflex
C:-Bezold jarish reflex
D:-Axon reflex
Correct Answer:- Option-A
Question11:-Serum differs from plasma
A:-by being formed as a result of antigen antibody reactions
B:-in lacking fibrinogen
C:-by lacking serotonin, growth factor etc
D:-in maintaining colloid osmotic pressure of blood
Correct Answer:- Option-B
Question12:-The last and final stage of formation of erythrocytes
A:-Reticulocyte
B:-Late normoblast
C:-Erythroblast
D:-Pronormoblast
D:-Pronormoblast  Correct Answer:- Option-A
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Correct Answer:- Option-A  Question13:-Philadelphia chromosome is seen in the following disease  A:-Acute myeloid leukemia  B:-Polycythemia rubravera  C:-Chronic myeloid leukemia  D:-Reticulocytosis  Correct Answer:- Option-C  Question14:-The type of antibodies formed first after exposure to antigen
Correct Answer:- Option-A  Question13:-Philadelphia chromosome is seen in the following disease  A:-Acute myeloid leukemia  B:-Polycythemia rubravera  C:-Chronic myeloid leukemia  D:-Reticulocytosis  Correct Answer:- Option-C  Question14:-The type of antibodies formed first after exposure to antigen  A:-IgD
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Correct Answer:- Option-A  Question13:-Philadelphia chromosome is seen in the following disease  A:-Acute myeloid leukemia  B:-Polycythemia rubravera  C:-Chronic myeloid leukemia  D:-Reticulocytosis  Correct Answer:- Option-C  Question14:-The type of antibodies formed first after exposure to antigen  A:-IgD  B:-IgM  C:-IgG  D:-IgA  Correct Answer:- Option-B  Question15:-Treatment of toxic levels of methemoglobin  A:-methylene blue
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 ${\it Question 8:-} Compensatory\ cardiovascular\ adjustment\ during\ prolonged\ standing\ is\ due\ to$ 

B:-Indirect Coomb's test
C:-Major cross matching
D:-Eliza
Correct Answer:- Option-A
Question17:-The cause of increased affinity of HB for oxygen as preservation injury in blood collected in ACD or CPD is
A:-Decrease in 2, 3 biphospho D-Glyceric acid
B:-Increase in ATP level of donar cells
C:-A rapid decrease in donor RBC sodium concentration
D:-A slow increase in donor RBC potassium ion concentration
Correct Answer:- Option-A
Question18:-The plasma level of following substances falls more rapidly during storage
A:-Albumin
B:-Fibrinogen
C:-Potassium
D:-Gamma globulin
Correct Answer:- Option-B
Question19:-Exchange transfusion is useful in the treatment of
A:-Hemolytic disease of Newborn
B:-Infant respiratory distress syndrome
C:-Hypovolumic shock
D:-Haemophilia
Correct Answer:- Option-A
Question20:-Which statement is true about von. Willbrand's disease?
A:-It is an autosomal recessive disorder affecting formation of hemostatic plugs
B:-The patient has a mild bleeding disorder with prolonged bleeding time, and concordant reduction in plasma levels of von Willebrand's factor antigen
C:-In von-Willebrand's disease factor VIII is also deficient
D:-The platelet aggregation is affected in von-Willebrand's disease which is responsible for the increased bleeding time
Correct Answer:- Option-B
Question 21:- All the heterotrimetric G protein-coupled receptors that have been characterized to date are proteins that span the cell membrane 7 times and are called
A:-Nuclear receptors
B:-Serpentine receptors
C:-Orphan receptors
D:-Thermoreceptors
Correct Answer:- Option-B
Question22:-Nernst potential of sodium is
A:89mv
B:96 mv
C:-+61 mv
D:45mv
Correct Answer:- Option-C
Question23:-Gap junctions are present in
A:-Choroid plexus
B:-Skin
C:-Renal tubular epithelium
D:-Smooth muscle
Correct Answer:- Option-D
Question24:-Smallest filamentous structure that form cytoskeleton of cell
A:-Desmosomes
· · · - · · · · · · · · · · · · · · · ·
B:-Kinines

D:-Keratines Correct Answer:- Option-C Question25:-The mechanism of action of Colchicine is by A:-Genomic action by which P53 protein is produced B:-Producing FaS which is present in NK cells and T Lymphocytes C:-By destroying mitotic spindle and arresting mitosis D:-By producing capases which are activated by cytochrome C Correct Answer:- Option-C Question26:-Accessory muscle of inspiration A:-Diaphragm B:-Sternocleidomastoid C:-External intercostal muscle D:-Internal intercostal muscle Correct Answer:- Option-B Question27:-Functional residual capacity is the sum of A:-Residual volume and Expiratory reserve volume B:-Tidal volume and Expiratory reserve volume C:-Tidal volume inspiratory reserve volume D:-Expiratory reserve volume and Inspiratory reserve volume Correct Answer:- Option-A Question28:-Contraction of External intercostal muscles causes ribs to move A:-Forwards and downwards B:-Backwards and downwards C:-Forwards and upwards D:-Backwards and upwards Correct Answer:- Option-C Question29:-Shift to right of  $O_2$  dissociation curve is caused by A:-Decrease in temperature B:-Increase in pH C:-Increase in  $pCO_2$ D:-Decrease in 2,3 BPG Correct Answer:- Option-C Question30:-Which of the following statement is/are correct about Surfactant? Secreted by type 1 alveolar cells Maintains alveolar stability Deficiency in infants causes infant respiratory distress syndrome A:-Only I and II B:-Only II and III C:-Only I and III D:-All of the above Correct Answer:- Option-B Question31:-Respiratory acidosis is compensated by the kidneys by A:-Increased  $H^{+}$ ion secretion B:-Decreased reabsorption of HCO 3 C:-Increased reabsorption of  $H^+$ D:-All of the above Correct Answer:- Option-A Question32:-Anion gap refers to the difference between A:-Cations and anions B:-Cations other than  $\mathit{Na}^+$  and anions

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D:-Cations other than Na^+and anions other than \mathcal{C}l^- and \mathcal{HCO}_3^-
     Correct Answer:- Option-D
Question33:-Which of the following statement is true about 'Histotoxic Hypoxia'?
     A:- \mathcal{O}_2 carrying capacity of blood is reduced
     B:- PO2 of arterial blood is decreased
     C:-A - V pO_2 difference is low
     D:-Percentage saturation of Hb is decreased
     Correct Answer:- Option-C
Question34:-Inspiratory "Ramp" Signal is produced by
     A:-Dorsal respiratory group of neurons
     B:-Ventral respiratory group of neurons
     C:-Apneustic centre
     D:-Pneumotaxic centre
     Correct Answer:- Option-A
Question35:-Symptoms of Caisson Disease are due to
     A:-Blockage of blood vessels by CO2
     B:-Blockage of blood vessels by \boldsymbol{\mathit{O}}_{2}
     C:-Blockage of blood vessels by CO
     D:-Blockage of blood vessels by N_2
     Correct Answer:- Option-D
Question36:-Oxyntic cells in the stomach secrete
     A:-Pepsinogen
     B:-Mucous
     C:-Histamine
     D:-Hydrochloric acid
     Correct Answer:- Option-D
Question37:-Secretin acts on the pancreatic ducts to cause the secretion of pancreatic juice
     A:-Rich in HCO_3^- concentration
     B:-Rich in Cl concentration
     C:-Poor in HCO3 concentration
     D:-Rich in enzymes
     Correct Answer:- Option-A
Question38:-The two primary bile acids formed in the liver are
     A:-Deoxycholic acid and lithocholic acid
     B:-Cholic acid and chenodeoxycholic acid
     C:-Cholic acid and lithocholic acid
     D:-Deoxycholic acid and chenodeoxycholic acid
     Correct Answer:- Option-B
Question39:- \mathcal{C}\mathit{l}^- enters enterocytes from the interstitial fluid via
     A:- Na^+ \_K^+ \_2Cl^- cotransporters
     B:-Na^+ \_ Cl^-cotransporters
     C:-Na^+\_Cl^- exchanger
     D:-Cl transporters
     Correct Answer:- Option-A
Question40:-All are actions of Cholecystokinin except
     A:-Contraction of the gall bladder
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C:-Cations and anions other than  $\mathcal{C}l^-$  and  $\mathcal{H}\mathcal{C}O_3^-$ 

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B:-Relaxation of sphincter of Oddi
     C:-Relaxation of pyloric sphincter
     D:-Stimulation of pancreatic secretion rich in enzymes
     Correct Answer:- Option-C
Question41:-Steatorrhea is caused by all except
     A:-Deficiency of pancreatic lipase
     B:-Lack of alkaline secretion from the pancreas
     C:-Defective reabsorption of bile salts in the distal ileum
    D:-Hyposecretion of gastric acid
     Correct Answer:- Option-D
Question42:-All are true about short chain fatty acids except
    A:-Make a significant contribution to the total caloric intake
     B:-They exert a trophic effect on the colonic epithelial cells
     C:-They are formed by the action of colonic bacteria on lipids
     D:-They combat inflammation
     Correct Answer:- Option-C
Question43:-All are true about migrating motor complex except
    A:-Starts with a quiescent period
     B:-Ends with a burst of regular electrical and motor activity
     C:-Initiated by motilin
     D:-Gastric secretion, bile flow, and pancreatic secretion decrease during MMC
     Correct Answer:- Option-D
Question44:-Hartnup disease is caused due to congenital defect in the mechanism of transport of
     A:-Neutral amino acids in the intestine and renal tubules
     B:-Na^+ in the intestine and renal tubules
     C:-Glucose in the intestine and renal tubules
     D:-Fatty acids in the intestine
     Correct Answer:- Option-A
Question45:-All are true regarding iron absorption except
     A:-Transport of \ensuremath{\mathit{Fe}}^{2+} into the enterocytes occurs via divalent metal transporter 1
     B:-Absorption occurs in the jejunum
     C:-Transported out of the enterocytes by a basolateral transporter named ferroportin \boldsymbol{1}
     D:-Hephaestin (Hp) facilitates basolateral transport of Fe^{2+}
     Correct Answer:- Option-B
Question46:-GFR is increased when
     A:-Hydrostatic pressure in the glomerular capillaries increases
     B:-Hydrostatic pressure in glomerular capillaries decreases
    C:-Oncotic pressure of the plasma in the glomerular capillaries increases
    D:-Oncotic pressure of the plasma in the Bowman's space decreases
     Correct Answer:- Option-A
Question47:-Loss of function mutation of paracellin 1 gene leads to
    A:-Na+ loss in the urine
    B:-K+ loss in the urine
     C:-Cl^- loss in the urine
     \mathrm{D:-}\mathit{Mg}^{2+} and \mathit{Ca}^{2+} loss in the urine
     Correct Answer:- Option-D
Question48:-Na+ is reabsorbed in proximal tubule via
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A:-Na-K-2Cl cotransporter

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B:-Na-H exchanger
     C:-Na-Cl cotransporter
     D:-Via the ENaC channels
     Correct Answer:- Option-B
Question49:-Bartter's syndrome is characterized by
     A:-Hypervolemia
     B:-Hypokalemia
     C:-Alkalosis
     D:-Hypertension
     Correct Answer:- Option-C
Question50:-Which of the following statement(s) is/are correct about the operation of loop of Henle as a countercurrent multiplier?
   High permeability of the thin descending limb to solutes
   Active transport of \mathit{Na}^{\scriptscriptstyle +} and \mathit{Cl}^{\scriptscriptstyle -} out of the thick ascending limb
III. Inflow of tubular fluid from the proximal tubule with outflow into the distal tubule
    A:-I and II
     B:-I and III
     C:-II and III
     D:-All of the above
     Correct Answer:- Option-C
Question51:-Which of the following statement(s) is/are correct about the factors affecting Na^+
   Circulating levels of aldosterone
Circulating level of ADH
III. Rate of tubular secretion of H^+and K^+
     A:-I and II
     B:-I and III
     C:-II and III
     D:-All of the above
     Correct Answer:- Option-B
Question52:-Diuretic Furosemide acts by
     A:-Inhibiting the Na-K-2Cl cotransporter in the thick ascending limb of the loop of Henle
     B:-Inhibiting Na^+ = K^+ exchange in the collecting duct
     C:-Inhibiting the ENaCs in the collecting duct
     D:-Inhibiting Na-Cl cotransporter in the early portion of the distal tubule
     Correct Answer:- Option-A
Question53:-Volume of urine in the bladder that normally initiates reflex contraction is
     A:-50-100 ml
     B:-100-200 ml
     C:-200-300 ml
     D:-300-400 ml
     Correct Answer:- Option-D
Question54:-Main source of heat loss from the body is by
     A:-Vaporization of sweat
     B:-Radiation and conduction
     C:-Urination and defecation
     D:-Respiration
     Correct Answer:- Option-B
Question55:-Substance used to measure GFR should be
     A:-Easily filtered by the tubules
     B:-Easily reabsorbed by the tubules
     C:-Easily secreted by the tubules
     D:-Metabolized by the body
     Correct Answer:- Option-A
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(i) (ii)	estion56:-Which of the following statement is/are correct regarding regenerative changes in an axon? Schwann cell on either side of injured site multiply by mitosis to form a growth cone Neurofibrils starts growing from tip of the proximal stem called sprouting Out of many Neurofibrils only one will find the way through the regeneration tube and reaches the target structure.
	A:-Only (i and iii)
	B:-Only (i and ii)
	C:-Only (ii and iii)
	D:-All the above (i, ii and iii)
	Correct Answer:- Option-C
(i) (ii) (iii)	estion57:-Following are true about Gap Junctions except Provide low resistant bridge for rapid spread of excitation Present in cardiac muscle Responsible for plasticity of smooth muscle They are electrical synapses
	A:-Only (ii)
	B:-Only (iii)
	C:-Only (i and iii)
	D:-Only (iv)
	Correct Answer:- Option-B
	estion58:-A business man after a cocktail party falls into a deep sleep with his right arm under his head. Very next morning when he was awaken, he is unable to move his right arm it it tingles and pain sensation is intact on the right arm. What is the reason for the loss of motor function of his right arm?
	A:-Sensory nerve fibers are located deep inside and are least affected by pressure
	B:-B-fibers are more sensitive to pressure than A-fibers
	C:-A-fibers are more sensitive to pressure than C-fibers
	D:-A- fibers are more susceptible to hypoxia than B-fibers
	Correct Answer:- Option-C
(i) (ii)	estion59:-A statement which is false regarding action potential is In mammalian heart depolarization last about 2ms The slow return of $K^+$ channel to the closed state contribute to the after hyperpolarization Voltage gated $K^+$ channels bring the action potential to an end cause closure of their gate through a positive feed back
	A:-Only (iii)
	B:-Only (ii)
	C:-Only(i)
	D:-None of the above
	Correct Answer:- Option-A
(i) (ii)	estion60:-Which of the following statement is/are correct about Channel Myopathies?  Hyperkalemic periodic paralysis is associated with mutation in $Na^*$ channel  Malignant hyperthermia can respond to general anaesthetic like Halothane  Paramyotonia congenita is associated with mutation in $Na^*$ channel
	A:-Only (ii and iii)
	B:-Only (iii)
	C:-Only (ii)
	D:-All the above (i, ii and iii)
	Correct Answer:- Option-D
(i) (ii) (iii)	estion61:-Decerebrate animal shows all the features except Absence of Righting reflex Opisthotonus Increased muscle tone in Flexor group of muscle Can stand unsupported
	A:-Only (i)
	B:-Only (ii)
	C:-Only (ii and iv)
	D:-Only (iii)
	Correct Answer:- Option-D
Out	estion62:-Which of the following is/are correct statement about Paciniam corpuscle?
(i) (ii) (iii)	estionoz:which of the following Is/are correct statement about Paciniam corpuscie? Slowly adapting receptors Respond maximum to sustained touch Found in less number in Mesentery Found in large number in the Skin and Subcutaneous tissue
	A:-Only (i and iv)

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B:-Only (ii, iii and iv)
      C:-Only (ii and iv)
      D:-All the above (i, ii, iii and iv)
      Correct Answer:- Option-C
Question63:-Lesions of Posteroventral nucleus of Thalamus result in
      Thalamic phantom limb 
Intention tremor
(iii) Choreoathetosis
(iv) Thalamic hand
      A:-Only (i, iii and iv)
      B:-Only (i)
      C:-Only (i, ii and iv)
      D:-All the above (i, ii, iii and iv)
      Correct Answer:- Option-B
Question64:-Statement which is/are true about EEG are
     EEG of Grandmal epilepsy is a high frequency low voltage pattern
Psychomotor epilepsy is characterized by lower than normal frequency waves
(iii) Petitmal epilepsy is characterized by a spike and dome pattern (iv) Sleep spindle appear during stage III of NREM sleep
      A:-Only (i and iii)
      B:-Only (ii and iii)
      C:-Only (ii and iv)
      D:-All the above (i, ii, iii and iv)
      Correct Answer:- Option-B
Question65:-Following are seen in Huntington's disease except
     Hypokinetic movements
Slurred speech
(iii) Dermentia
(iv) Death usually within 10 to 15 yrs after the onset of symptom
      A:-Only (i)
      B:-Only (ii)
      C:-Only (ii and iv)
      D:-Only (iii)
      Correct Answer:- Option-A
Question66:-Which of the following statement is/are true regarding Aphasias?
     They are abnormalities of language functions that are not due to defects of vision or hearing or to motor paralysis. They are caused by lesions in the Categorical hemisphere
(iii) In nonfluent aphasia, the lesion is in Wernicke's area
      A:-Only (i and iii)
      B:-Only (ii and iii)
      C:-Only (i and ii)
      D:-All the above (i, ii, iii and iv)
      Correct Answer:- Option-C
Question67:-Circumventricular organ include the following structures except
      A:-Area Postrema
      B:-Posterior pituitary
      C:-Hypothalamus
      D:-Pineal gland
      Correct Answer:- Option-C
Question68:-Statement which is/are false regarding Neuropathic pain (i) Causalgia is an example for neuropathic pain
(ii) Reflex sympathetic dystrophy is often present
(iii) Often accompanied by hyperalgesia and allodynia
(iv) Skin in the affected area is thick and there is decreased hair growth
      A:-Only (i and ii)
      B:-Only (iv)
      C:-Only (iii)
      D:-None of the above
      Correct Answer:- Option-B
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(i) (ii)	stion69:-Following statement is/are true about Demyelinating diseases Multiple sclerosis is the most common demyelinating disease of the Central Nervous System The viral antigen theory regarding multiple sclerosis indicate that it's incidence is greater in tropical region than in temperature region In Landry-Guillian-Barre's syndrome complete recovery is possible in most of the cases
	A:-Only (i and iii)
	B:-Only (ii and iii)
	C:-Only (i and ii)
	D:-All the above (i, ii and iii)
	Correct Answer:- Option-A
Oue	stion70:-Two of the most unusual nonclassic neurotransmitters in the Autonomic Nervous System are
•	A:-Monoamines and GABA
	B:-Dopamine and 5-Hydroxytryptamine
	C:-Oxytocin and Neurotensin
	D:-ATP and Nitric Oxide
•	Correct Answer:- Option-D
(i) (ii)	stion 71:-Which of the following statement is/are false about Purkinje cells of Cerebellum? They are the principal cells of Cerebellum Each purkinje cell receives powerful synaptic contact from just a single climbing fiber, which comes from a cell in the Superior Olivary Nucleus Each purkinje cell receives a synapse from 150000 parallel fibers, which originate from the tiny granule cells of the Cerebellum
	A:-Only (i)
	B:-Only (ii)
	C:-Only (iii)
	D:-None of the above
	Correct Answer:- Option-B
Que	stion72:-Which of the following is not a risk factor of Alzheimer disease?
	A:-Age
	B:-Presenelin 1 mutation
	C:-Loss of GABA ergic pathway to the Globus pallidus
	D:-Trisomy 21
	D:-Trisomy 21 Correct Answer:- Option-C
(i) (ii) (iii)	
(i) (ii) (iii)	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft
(i) (ii) (iii)	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given
(i) (ii) (iii)	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given A:-Only (i and iii)
(i) (ii) (iii)	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilaterial Ptosis, miltosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given A:-Only (i and iii) B:-Only (ii, iii and iv)
(i) (ii) (iii)	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given A:-Only (i and iii) B:-Only (ii, iii and iv) C:-Only (i, iii and iv)
(i) (ii) (iii) (iv) Que (i) (ii) (iii)	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given  A:-Only (i and iii)  B:-Only (ii, iii and iv)  C:-Only (i, iii and iv)  D:-All the above (i, ii, iii and iv)
(i) (ii) (iii) (iv) Que (i) (ii) (iii)	Correct Answer:- Option-C  stion 73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given A:-Only (i and iii)  B:-Only (ii, iii and iv)  C:-Only (i, iii and iv)  D:-All the above (i, ii, iii and iv)  Correct Answer:- Option-B  stion 74:-Which of the following statement is/are false about cerebellum? The two main inputs to the cerebellar cortex are Climbing fibers and Mossy fibers Spinocerebellum is the largest part of the human cerebellum Cerebrocerbellum is the largest part of the human cerebellum
(i) (ii) (iii) (iv) Que (i) (ii) (iii)	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given  A:-Only (i and iii)  B:-Only (ii, iii and iv)  C:-Only (i, iii and iv)  D:-All the above (i, ii, iii and iv)  Correct Answer:- Option-B stion74:-Which of the following statement is/are false about cerebellum? The two main inputs to the cerebellar cortex are Climbing fibers and Mossy fibers Spinocerebellum is the largest part of the human cerebellum Palaeocerebellum is the largest part of the human cerebellum Palaeocerebellum helps in the regulation of muscle tone
(i) (ii) (iii) (iv) Que (i) (ii) (iii)	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given A:-Only (i and iii) B:-Only (ii, iii and iv) C:-Only (i, iii and iv) D:-All the above (i, ii, iii and iv) Correct Answer:- Option-B stion74:-Which of the following statement is/are false about cerebellum? The two main inputs to the cerebellar cortex are Climbing fibers and Mossy fibers Spinocerebellum is the phylogenetically the newest part of Cerebellum Cerebrocerbellum is the largest part of the human cerebellum Palaeocerebellum helps in the regulation of muscle tone A:-Only (ii)
(i) (ii) (iii) (iv) Que (i) (ii) (iii)	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given A:-Only (i and iii)  B:-Only (ii, iii and iv)  C:-Only (i, iii and iv)  D:-All the above (i, ii, iii and iv)  Correct Answer:- Option-B stion74:-Which of the following statement is/are false about cerebellum? The two main inputs to the cerebellar cortex are Climbing fibers and Mossy fibers Spinocerebellum is the phylogenetically the newest part of Cerebrocerbellum Cerebrocerbellum is the largest part of the human cerebellum Palaeocerebellum helps in the regulation of muscle tone  A:-Only (ii)  B:-Only (ii and iii)
(i) (ii) (iii) (iv) Que (i) (ii) (iii)	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given  A:-Only (i and iii)  B:-Only (ii, iii and iv)  C:-Only (i, iii and iv)  D:-All the above (i, ii, iii and iv)  Correct Answer:- Option-B stion74:-Which of the following statement is/are false about cerebellum? The two main inputs to the cerebellar cortex are Climbing fibers and Mossy fibers Spinocerebellum is the phylogenetically the newest part of Cerebrocerbellum is the largest part of the human cerebellum Palaeocerebellum helps in the regulation of muscle tone  A:-Only (ii)  B:-Only (ii)  B:-Only (ii) and iii)  C:-Only (iv)
(i) (ii) (iv) Que (i) (ii) (iv) Que (i) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iiii) (iiii) (iiii) (iiii) (iiiii) (iiiiiiii	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given  A:-Only (i and iii)  B:-Only (ii, iii and iv)  C:-Only (i, iii and iv)  D:-All the above (i, ii, iii and iv)  Correct Answer:- Option-B stion74:-Which of the following statement is/are false about cerebellum? The two main inputs to the cerebellar cortex are Climbing fibers and Mossy fibers Spinocerebellum is the phylogenetically the newest part of Cerebellum Cerebrocerebellum is the phylogenetically the newest part of Cerebellum Palaeocerebellum helps in the regulation of muscle tone  A:-Only (ii)  B:-Only (ii)  B:-Only (iii)  D:-None of the above
(i) (ii) (iv) Que (i) (ii) (iv) Que (i) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iiii) (iiii) (iiii) (iiii) (iiiii) (iiiiiiii	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given A:-Only (i and iii) B:-Only (ii, iii and iv) C:-Only (i, iii and iv) D:-All the above (i, ii, iii and iv) Correct Answer:- Option-B stion74:-Which of the following statement is/are false about cerebellum? The two main inputs to the cerebellar cortex are Climbing fibers and Mossy fibers Spinocerabellum is the phylogenetically the newest part of Cerebellum Cerebrocerebellum is the gragest part of the human cerebellum Palaeocerebellum helps in the regulation of muscle tone A:-Only (ii) B:-Only (ii and iii) C:-Only (iv) D:-None of the above Correct Answer:- Option-A stion75:-Examples in which visaeceral afferents overwhelm corticol functions are Nausea, hunger and Visceral pain Bladder and bowel distention Hyperthermia and hypothermia
(i) (ii) (iv) Que (i) (ii) (iv) Que (i) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iiii) (iiii) (iiii) (iiii) (iiiii) (iiiiiiii	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given A:-Only (i and iii) B:-Only (ii, iii and iv) C:-Only (i, iii and iv) D:-All the above (i, ii, iii and iv) Correct Answer:- Option-B stion74:-Which of the following statement is/are false about cerebellum? The two main inputs to the cerebellar cortex are Climbing fibers and Mossy fibers Spinocerebellum is the phylogenetically the newest part of Cerebellum Cerebrocerbellum is the largest part of the human cerebellum Palaeocerebellum helps in the regulation of muscle tone A:-Only (ii) B:-Only (ii and iii) C:-Only (iv) D:-None of the above Correct Answer:- Option-A stion75:-Examples in which visaeceral afferents overwhelm corticol functions are Nausea, hunger and Visceral pain Bladder and bowel distention Hyperthermia and hypothermia Dyspnea
(i) (ii) (iv) Que (i) (ii) (iv) Que (i) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iiii) (iiii) (iiii) (iiii) (iiiii) (iiiiiiii	Correct Answer:- Option-C stion73:-Following statement is/are true about Horner syndrome Bilateral Ptosis, mitosis and anhidrosis are the key features Cocaine treatment have less effect Less norepinephrine in the synaptic cleft In case of post ganglionic Horner syndrome, solution containing hydroxyamphetamine can be given A:-Only (ii and iii) B:-Only (ii, iii and iv) C:-Only (ii, iii and iv) D:-All the above (i, ii, iii and iv) Correct Answer:- Option-B stion74:-Which of the following statement is/are false about cerebellum? The two main inputs to the cerebellar cortex are Climbing fibers and Mossy fibers Spinocerebellum is the prylogenetically the newest part of Cerebellum Cerebrocerbellum helps in the regulation of muscle tone A:-Only (ii) B:-Only (ii and iii) C:-Only (iv) D:-None of the above Correct Answer:- Option-A stion75:-Examples in which visaeceral afferents overwhelm corticol functions are Nausea, hunger and Visceral pain Bladder and bowel distention Hyperthermia and hypothermia Dyspnea A:-Only (ii and iii)

Correct Answer:- Option-D Question76:-Which of the following is/are not involved in color vision? (i) Activation of a pathway that signals the difference between S cone responses and the sum of Land M cone responses (ii) Geniculate layers 3-6 (iii) P-Pathwah (iv) Area V3A of visula cortex A:-Only (i) B:-Only (ii and iii) C:-Only(iii) D:-Only (iv) Correct Answer:- Option-D Question77:-Which of the following is/are correct statement about Olfactory receptors? Human olfactory epthelium contains 1-2 million of bipolar olfactory sensory neurons Dendrites of each neuron terminates in a knob containing 10 to 20 cilia (iii) The cilia are unmyelinated process of about 20  $\mu$ min length (iv) The cilia contains specific receptors for odorants A:-Only (i and iii) B:-Only (ii and iii) C:-Only (ii and iv) D:-All the above (i, ii, iii and iv) Correct Answer:- Option-B Question 78: An 8 year old boy School met with at road traffic accident and his MRI revealed damage to the brain including the periamygdaloid, piriform and entorhinal cortices. Which of the following sensory deficit is he most likely to experience? A:-Visual disturbance **B:-Auditory Problems** C:-Hyperosmia D:-Taste and odour abnormalities Correct Answer:- Option-D Question79:-Which of the following statement is/are wrong about Taste Sensation?

(i) Many G-protein linked receptors in the human genome are taste receptors for bitter taste (ii) Sweet taste is triggered by H+ ions (iii) A 10° degree change in concentration of the substance being tasted is necessary before an intensity difference a be detected (iv) Substances that taste sweet are acting via G-protein gustducin A:-Only (i) B:-Only (ii and iii) C:-Only (iv) D:-None of the above Correct Answer:- Option-B Question80:-Which of the following condition result in sensoneuronal deafness? A:-Acute otitis media B:-Impaction of wax in the external auditory canal C:-Miniere's disease D:-Otosclerosis Correct Answer:- Option-C Question81:-Presence of non diffusible ion on one side of membrane leads to the distribution of diffusible ions in a predictable way. This is explained by A:-Nernst equation B:-Gibbs Donnan equation C:-Hasselbalch equation D:-Goldman-hodgkin-katz equation Correct Answer:- Option-B Question82:-Which of the following is true about spliceosomes A:-Composed of RNAs, DNAs and proteins B:-Eliminates introns of some genes C:-Segments of DNA which determines the formation of proteins D:-Segments of RNA that are not translated

Correct Answer:- Option-B

## Question83:-Hormone sensitive lipase A:-Catalyses the breakdown of triglycerides in adipose tissue B:-Hydrolyses TG, VLDL and Cholesterol in Capillaries C:-Increases during feeding D:-Requires cofactor heparin for its action Correct Answer:- Option-A Question84:-Effects of microgravity includes A:-Red out B:-Balck out C:-Decrease in cardiac output D:-None of the above Correct Answer:- Option-C Question85:-Translation is A:-Conversion of information encoded in mRNA to a protein B:-Attachment of tRNA to polypeptide chain C:-Hydroxylation, carboxylation and glycosylation of amino acid and residues D:-Formation of RNA from DNA Correct Answer:- Option-A Question86:-In true hermaphroditism A:-Genetic females are exposed to androgens B:-Has gonads of one sex and genitalia of the other C:-Individual have both ovaries and testes D:-Can turn out as Turner syndrome or Klinefelter syndrome Correct Answer:- Option-C Question87:-Constitutional precocious puberty is due to A:-Disorders involving posterior hypothalamus B:-Congenital virilising adrenal hyperplasia C:-Leydig cell tumour D:-None of the above Correct Answer:- Option-D Question88:-Sprematids mature to spermatozoa in A:-Epididymis B:-Sertoli cells C:-Leydig cell D:-Rete testis Correct Answer:- Option-B Question89:-Hormone responsible for the final progression to ovulation stage and follicular growth is A:-FSH B:-LH C:-Progesterone D:-Oestrogen Correct Answer:- Option-B Question90:-Milk ejection is the function of A:-Oxytocin B:-Vasopressin C:-Prolactin D:-Oestrogen Correct Answer:- Option-A Question91:-All are examples of negative feed back control except A:-Maintenance of osmolarity

B:-Regulation of blood glucose
C:-Stress response
D:-LH surge
Correct Answer:- Option-D
Question92:-Hypothalamo-hypophyseal tract connect hypothalamus with
A:-Anterior lobe of pituitary
B:-Posterior lobe of pituitary
C:-Intermediate lobe of pituitary
D:-All of the above
Correct Answer:- Option-B
Question93:-ANP causes 1. Afferent arteriolar constriction 2. Relaxation of mesangial cells 3. Increases capillary permeability 4. Inhibits renin secretion
A:-1 is correct
B:-2, 3 and 4 are correct
C:-1, 2 and 3 are correct
D:-only 4 is correct
Correct Answer:- Option-B
Question94:-False statement about GH is
A:-Causes an increase in plasma cholesterol
B:- $Na^+$ and $K^+$ excretion is reduced
C:-lt is ketogenic
D:-It stimulates the production of somatomedins by the liver
Correct Answer:- Option-A
Question95:-Hyperthyroidism is characterised by all except
questions. Hyperthyrolaism is characterised by an except
A:-increased food intake
A:-increased food intake
A:-increased food intake B:-increased BMI
A:-increased food intake B:-increased BMI C:-increased sweating
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D Question96:-Example for amino acid derived hormone is
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D Question96:-Example for amino acid derived hormone is A:-Serotonin
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D Question96:-Example for amino acid derived hormone is A:-Serotonin B:-Aldosterone
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D Question96:-Example for amino acid derived hormone is A:-Serotonin B:-Aldosterone C:-Insulin
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D Question96:-Example for amino acid derived hormone is A:-Serotonin B:-Aldosterone C:-Insulin D:-Calcitonin
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A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D  Question96:-Example for amino acid derived hormone is A:-Serotonin B:-Aldosterone C:-Insulin D:-Calcitonin Correct Answer:- Option-A  Question97:-Insulin stimulated glucose uptake in adipose tissue take place through A:-GLUT 2
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A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D Question96:-Example for amino acid derived hormone is A:-Serotonin B:-Aldosterone C:-Insulin D:-Calcitonin Correct Answer:- Option-A Question97:-Insulin stimulated glucose uptake in adipose tissue take place through A:-GLUT 2 B:-GLUT 4 C:-GLUT 6
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D Question96:-Example for amino acid derived hormone is A:-Serotonin B:-Aldosterone C:-Insulin D:-Calcitonin Correct Answer:- Option-A Question97:-Insulin stimulated glucose uptake in adipose tissue take place through A:-GLUT 2 B:-GLUT 4 C:-GLUT 6 D:-GLUT 7
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D  Question96:-Example for amino acid derived hormone is A:-Serotonin B:-Aldosterone C:-Insulin D:-Calcitonin Correct Answer:- Option-A  Question97:-Insulin stimulated glucose uptake in adipose tissue take place through A:-GLUT 2 B:-GLUT 4 C:-GLUT 6 D:-GLUT 7 Correct Answer:- Option-B
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D  Question96:-Example for amino acid derived hormone is A:-Serotonin B:-Aldosterone C:-Insulin D:-Calcitonin Correct Answer:- Option-A  Question97:-Insulin stimulated glucose uptake in adipose tissue take place through A:-GLUT 2 B:-GLUT 4 C:-GLUT 6 D:-GLUT 7 Correct Answer:- Option-B  Question98:-The most common cause of adreno-genital syndrome is due to deficiency of
A:-increased food intake B:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D Question96:-Example for amino acid derived hormone is A:-Serotonin B:-Aldosterone C:-Insulin D:-Calcitonin Correct Answer:- Option-A Question97:-Insulin stimulated glucose uptake in adipose tissue take place through A:-GLUT 2 B:-GLUT 4 C:-GLUT 6 D:-GLUT 7 Correct Answer:- Option-B Question98:-The most common cause of adreno-genital syndrome is due to deficiency of A:-Cholesterol desmolase
A:-increased BMI C:-increased sweating D:-increased weight gain Correct Answer:- Option-D Question96:-Example for amino acid derived hormone is A:-Serotonin B:-Aldosterone C:-Insulin D:-Calcitonin Correct Answer:- Option-A Question97:-Insulin stimulated glucose uptake in adipose tissue take place through A:-GLUT 2 B:-GLUT 4 C:-GLUT 6 D:-GLUT 7 Correct Answer:- Option-B Question98:-The most common cause of adreno-genital syndrome is due to deficiency of A:-Cholesterol desmolase B:-11 β hydroxylase

Question99:-Action of parathormone includes

A:-Calcium and phosphate reabosorption

B:-Claciuria and phosphate reabosorption

C:-Calcium reabsorption and phosphaturia

D:-Calciuria and phosphaturia

Correct Answer:- Option-C

Question100:-Regarding melatonin all are true except

A:-It is synthesised from tyrosine

B:-Synthesis and secretion increases during dark

C:-Diurnal secretion depends upon norepinephrine secretion

D:-It is released from pineal gland which is situated on the roof of 3rd ventricle

Correct Answer:- Option-A