

# SUMMER- 14 EXAMINATION

Subject Code:17436

Model Answer

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# Important Instructions to examiners:

1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.

2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.

3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills.

4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.

5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.

6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.

7) For programming language papers, credit may be given to any other program based on equivalent concept.



# Subject Code:17436

# **Model Answer**

Q.1.	Attempt any ten of the following	20
a)	Define joints	02
a)		02
	Ans: The union of two or more bones of the skeleton is described as joint or articulation.	
	Or	
	A joint is the side at which any two or more bones come together.	
b)	Properties of cardiac muscles	02
	1)Excitability: Ability of cell to respond by generation of action potential when adequately stimulated	
	2) Atomicity/Autorthymicity: It refers to ability of cardiac muscle to initiate its own impulse at constant rthymical interval known as Autorthymicity.	Any 2
	3)Conductivity: Transmision of impulse from one part to another part with help of specialized conducting tissue.	
	4)Contractivity: Ability of cardiac muscles to actively generate force to shorten and thicken to do work when adequate stimulus is applied.	
	5)Long refractory period: It is the interval of time during which a normal cardiac impulse can't excite the already excited area of muscle.	
	Define Blood pressure	
c)	Ans: The blood pressure is defined as the pressure, the blood exerts against the wall of the vessels in which it is contained.	02
	or	
	Blood pressure is the pressure of blood applied against the arterial walls resulted due to the force generated by contraction of left ventricle and conducted through arteries of the entire body.	
d)	Classification of nervous system	02
	Ans: The nervous system is classified as follows:	
	1)Central Nervous System(CNS)-consists of brain and spinal cord.	
	2)Peripheral Nervous System(PNS)-32 pairs of spinal nerves, 12 pairs of cranial nerves and the autonomic part of nervous system.	
e)	Define cell	02
	The cell can be defined as a block of protoplasm surrounded by membrane.	
	Or	



	The smallest living unit composed of a minute mass of proplasm.	
f)	Enlist four blood group systems	02
	1.ABO System 2.Rh System 3.MNS System 4.Kell System 5. Duffy system 6.Lutheran system	Any 4
g)	Instruments used in Urinary disorder	02
	1.Cystoscopy 2.Ureteroscopy 3.Uroflowmetery 4.Haemodialysis	
h)	Define	02
	<b>i)Repolarization:</b> The normal state of cell which is regained after depolarization in which the inside of the membrane is again negative with respect to outside. This process is called Repolarization.	
	<b>ii)Depolarization:</b> When the cell is excited or stimulated, outer side of the cell membrane becomes momentarily negative with respect to the interior. This process is called depolarization .	
i)	Location of Pharynx and Trachea.	02
	Situated posterior to the nasal and oral cavities and posterior to larynx.	
	Trachea lies partly in neck and partly in thorax.	
j)	Enlist organs of Digestive System	02
	The following are the organs of digestive system	
	<b>1)Alimentary canal</b> -Consists of a)Mouth cavity b)Pharynx c) Esophagus d)Stomach e) Small Intestine f)Large Intestine g)Rectum and anal canal.	
	2)Accessory organs – a)Three pairs of salivary glands b)Pancreas c)Liver and the billiary tract.	
k)	Define Hormones	02
	The secretions of the endocrine glands are named as hormones. Hormones are the chemical substances which are formed in endocrine gland and carried by blood to other distant organ or tissue, thereby controlling their activity. Chemically, hormones are peptides, steroids, amines, or derivatives of amino acids.	
1)	Function of Thyroid gland	02
	Thyroid glands have three functions	
	1)Regulation of metabolism	
	2)Regulation of growth and development	
	3)Regulation of activity of the nervous system	
m)	Composition of gastric juice	02
	The gastric juice consists of:	Any 4
	1. water	
	2. Mineral salts secreted by gastric glands	
	3. Mucus is secreted by cells in the gland and on the stomach surface	



	4.Hydrochloric acid	
	5.Intrinsic factor are secreted by parietal cells in gastric glands.	
	6.Enzymes pepsinogen secreted by chief cell in the glands.	
n)	Enlist Endocrine glands	02
	1. Pituitary gland	Any 4
	2. Thyroid gland	
	3. Parathyroid gland	
	4. Adrenal glands	
	5. Pancreas	
	6. Ovaries	
	7. Testes	
	8. Pineal	
2.	Attempt any four of the following	16
a)	Describe structure of cell	04
	Ans:	
	Endoplasmic reticulum	
	mitochondria microtubules golgi apparatus centriole lysosome introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduction introduct	02
	It is fundamental unit of all body tissue. The living cell is made up of protoplasmic substance which is slightly opaque, colourless, soft jelly like substance. Protoplasm consists of largeamount of water and other substances in solution. The cell consists of centrally located mass called nucleus which is surrounded by nuclear membrane. The protoplasm inside the nucleus is known as nucleoplasm whereas protoplasm outside the nucleus is known as cytoplasm which is surrounded by outermost layer of cell known as plasma membrane. The cytoplasm performs different functions directed by nucleus. The various orgenells in the cytoplasm are plasma membrane, endoplasmic reticulum, golgi apparatus mitochondria, lysosomes, etc Besides these organelles , the cell also contains organic and inorganic salts, carbohydrates, proteins and fats. Nucleus is the control of the cell, that consists of large amount of deoxyiribonucleic acid and ribonucleic acid, nucleoli, chromatin etc.	02
b)	<b>Define heart rate and write it's significance</b> Ans	04
	The number of heart beats per unit of time usually per minute.	02
	The heart rate is based on number of contractions of ventricles. The heart rate may be too fast	02







blood in capillaries.Oxygen passes across this membrane and is taken up by the hemoglobin of red blood cells and called pure blood this is pumped in arteries to all parts of body The exchange of gases between alveoli and blood capillaries surrounding ,is termed as external respiration.         Internal respiration: At completion of the external respiration ,pure blood reaches heart and pumped out from left ventricle to the aorta and finally to tissue cells through the systemic arteries. The exchanges of gases between tissue blood capillaries and tissue cell is termed as internal respiration. Because of difference in partial pressures, oxygen diffuses from blood to cells whereas carbondioxide from tissue to blood till equilibrium is reached. Thus this deoxygenated blood from tissue capillaries enters t o heart, from heart it is pumped to lungs for purification by external respiration.         Name instruments used in Urinary system         1.Cystoscopy         2.Ureteroscopy         3.Uroflowmetery         4.Haemodialysis         Describe male reproductive system	04 Any 04
from left ventricle to the aorta and finally to tissue cells through the systemic arteries. The exchanges of gases between tissue blood capillaries and tissue cell is termed as internal respiration. Because of difference in partial pressures, oxygen diffuses from blood to cells whereas carbondioxide from tissue to blood till equilibrium is reached. Thus this deoxygenated blood from tissue capillaries enters t o heart, from heart it is pumped to lungs for purification by external respiration. <b>Name instruments used in Urinary system</b> 1.Cystoscopy 2.Ureteroscopy 3.Uroflowmetery 4.Haemodialysis	Any
Name instruments used in Urinary system         1.Cystoscopy         2.Ureteroscopy         3.Uroflowmetery         4.Haemodialysis	Any
2.Ureteroscopy 3.Uroflowmetery 4.Haemodialysis	
3.Uroflowmetery 4.Haemodialysis	
4.Haemodialysis	
Describe male reproductive system	
Ans:	04
The male reproductive organs include testis within the scrotum, pair of seminal vescicles and ducts,	
ejaculatory duct, epididymis and bulbourethral glands .Prostate gland, penis and urethra are single structure only. The testis are the male organs of the generation Spermatozoa,male sex hormones	
	Corpus cavernosa Urethra Corpus spongiglosum Penis Gians penis Prepuce Scortum



	or 72 hours at normal body temperature.	
f)	Describe peripheral Nervous system. Ans:-	04
	posterior root ganglion sensory nerve motor nerve	02
	<ul> <li>The peripheral Nervous system consists of 31 pairs of spinal nerves arising from spinal cord and twelve pairs of cranial arising from brain.</li> <li>31 pairs of spinal nerves are distributed as 8pairs of cervical nerves in cervical region.12 pairs of thoracic nerves in the thorax. 5 pairs of lumbar nerves in lumbar region. 1 pair of coccygeal nerve Spinal nerve is formed by union of sensory and motor nerves. Branches of nerves unite to form a structure called plexuses. Nerves are made up of single neuron which carries nerve impulses or they are made up of chain of neurons.</li> </ul>	02
	<ul> <li>Types of nerves</li> <li>a)Motor nerve-impulses from brain and spinal cord to other parts of body.</li> <li>b)Sensory nerve-impulses from periphery of body to spinal cord and then to brain.</li> <li>c)Mixed nerves: Afferent and Efferent nerves are enclosed within the same tube of connective tissue.</li> <li>They are called mixed nerves.</li> </ul>	

Q3)	Attempt any four of the following.	12
a)	Write (any four) functions of the blood.	(04)
	Ans:- 1) Respiratory function:-	
	Blood carries O2 from lungs to parts of the body and CO2 from body to lungs	
	2) Digestion:- In digestion the product are formed, these products are carried to the liver Through blood.	
	3) Excretory:- Waste products are transported by blood.	
	4) Acts as internal environment to cells of body.	
	5) It regulates the temperature of the body.	
	6) Formation of antibodies.	
	7) Acts as a transport media for the hormones, vitamins etc.	
b)	Describe electrical activity of the Heart.	(04)
	Ans:- When muscles contract, there is a change in electrical potential across the membrane of muscle	
	fiber. This is true in case of cardiac muscles also. As the body fluids and tissue are good conductors of	
	the electricity, the electrical changes occurring in the contracting myocardium can be detected by	
	attaching electrodes to the surface of the body. The pattern of the electrical activity may be displayed	
	on the oscilloscope screen or printed out on paper. This tracing is called as Electrocardiogram (ECG).	



		Point	Significance	
		Р	Contraction of Atria	
		QRS	Spread of contaction pulse	
	R		over ventricles & relaxation	
	Λ		of Atria	
	P a s	т	Relaxation of Ventricles and starting of the contraction of Atrium	
c)	Name instruments used in respiratory disorders. V	Vrite any fo	ur diseases.	(04)
	Ans:- instruments			
				02
	1) Ventilator			(Any 2)
	2) Spiro meter			2)
	3) Nebulizer			
	Respiratory disorders:			
	1) Bronchitis			02
	2) Asthma			(Any
	3) Respiratory tract infection			4)
	4) Lung cancer			
	5) Bacterial pneumonia			
	6) Pulmonary embolism			
d)	Describe Anatomy of kidney.			04
	Ans:-			
			- December	
	for a second sec	3		
	Calva All	Miller		
		58°44		
	Renal pelvis	100	Cortex	
	the second second	1000	St. J	
	1 and	- mil	a meduna	
	· · · ·	-	Urinary	
	Ureter -	1	e tubules	
		Sec. 1	F .]	
		2 III		
		9	1	
	O F MIL		1	
		- 50		
	Contraction of the second			







	4. Ovaries are the homologous to testes in male. They form the ova by the process of	
	ovulation. They also forms the estrogen and progesterone	
f)	Describe spinal cord.Ans :- it is an elongated and almost cylindrical part of central nervous system. It is situated in the neural canal of vertebral column and extends from atlas above to the first lumbar vertebra below. It continues with the medulla oblongata above. It is about 45cms long and is about the thickness of the small finger. It is surrounded by the dura, arachnoid and piameter. Cerebrospinal Fluid (CSF) is present in the central canal of the spinal cord.The spinal cord is the link of nervous tissue between the brain and the other organs of the body. The nerve conveying impulses from and to the organ enters and leaves the spinal cord at the appropriate level. Thirty one pair of nerves arises from the spinal cord.The transverse section of the spinal cord at the appropriate level. Thirty one pair of nerves arises from the spinal cord.The transverse section of the spinal cord shows that it is composed of grey matter in the center, surrounded by white matter. The grey matter is arranged in the form of letter "H" showing anterior horns of grey matter.	04
	anterior median fissure transeverse section or spinal cord	
Q 4.	Attempt any Four of the following	16
a)	Explain classification of bones.	04
	Ans:-	
	bones	
	On basis of On the basis of On the basis of On the basis of shape development structure position	
	Long bone Membrane Cortical or Axial bone bone compact bone	
	Short bone Cartilage bone Cancellous or Appendicular spongy bone bone	
	Flat bone Membrano- cartilage bone	
	Irregular bone	
	Sisemoid bone	
	Pneumatic bone	
	Accessory bone	
b)	Define cardiac output and how it is measured?	04
		10



	Ans:-	
	Cardiac output is the amount of blood ejected each minute from the heart. It is also known as the minute volume. It also takes consideration the rate and force of cardiac contraction.	
	Cardiac output = Stroke volume X Heart rate.	
	For normal human being the values are: Stroke volume = 70 ml Heart rate = 72 per minute So cardiac output = 5040 ml	02
	For the measurement of cardiac output first we have to find the stroke volume. One of the techniques to find out the stroke volume is the dye dilution technique. In this technique some liquid is injected to the blood. This liquid can be traced by connecting some sensing circuitry and body being subjected to that arrangement. Once we get the stroke volume the cardiac output can be calculated by taking product of stroke volume and heart rate.	02
c)	What is respirator? Explain its function.	04
	Ans:- Respirator is a mask like device that filters fine particles from the inhaled air. It usually takes the form of partial or full face mask that is secured in a place with a strap. It is fitted near the nose and the mouth area.	02
	Functions of the respirator:- respirator does not perform any actual breathing function for its wearer. Instead its purpose is to purify inhaled air before it enters lungs by trapping harmful particles and fumes. It consists of the filters that separate these harmful particles from the inhaled air.	02
d)	Describe the formation of urine.	04
	Ans:-	
	Kidneys filter out the waste material from the blood & secrete in the form of urine. The urine formation occurs in three stages.	
	1. Glomerular Filtration:-The afferent arteriole carry blood to glomerulus & efferent arterioles carry blood away from glomerulus. The wall of glomerular capsule acts as a filter & hence filtration is under pressure.	
	2. Selective Re-absorption:-It is the process by which the composition & volume of glomerular filter is altered during it passage through tubule.	
	3. Active secretion:-Non-threshold substances which are not filtered by capsule are carried in the capillaries of efferent arteriole & are cleared by secretion into the tubule.	
e)	Write the function of female Hormone.	04
	Ans:-	



	<ol> <li>It promotes the growth and development of ovaries, uterus, vagina and fallopian tubes.</li> <li>It promotes the motility of fallopian tube which plays an important role in transport of sperms.</li> <li>Estrogen is responsible for the development of female secondary sexual characters.</li> <li>It is responsible for the proliferative stage of menstruation.</li> <li>Eestrogen causes increased fat deposition in subcutaneous tissues and also in other particular regions to make a typical feminine body.</li> <li>It causes growth of uterus during pregnancy.</li> </ol>	<b>04</b> (any4)
f)	Draw a well labeled diagram of eye. Ans:-	04
Q 5)	Attempt any four of the following.	16
a)	Define tissue & write their function.	04
	Ans:- Definition:-Tissues means group of cells specially developed for carrying out certain specific function.	02
	Epithelium tissues:-These tissues protect underlying tissues against friction or injury. Muscular tissues:-These tissues are contractile so helps to produce movements of muscles. Nervous tissues:-They carry out special function of carrying message of stimuli within the body. Connective tissue:- they helps in maintaining body structure and transport of hormones and body essentials.	02



b)	Describe the anatomy of Heart.	04
	Ans: -	
	<ul> <li>The blood circulation in human body is carried out &amp; maintained by a hollow muscular organ with the help of various vessels linked with it. The hollow muscular organ is called heart &amp; it is linked to blood vessels. It lies in center of thorax &amp; between the two lungs; but is more to</li> <li>the left of the middle. It is cone-shaped &amp; presents a base above &amp;apex below. It is of the size of a closed fist of the individual. It composed of three layers of tissues.</li> <li>1. The Pericardium 2. The myocardium 3. The endocardium It consists of four chambers, two atrium and two ventricles. It has non-returning valves in between atrium and ventricles. Atrium and ventricles are divided by the septum.</li> </ul>	04
c)	Describe anatomy of Lungs & their functions.	04







)	Distinguish between skeletal muscle & smooth muscle.	04
	senses organs to brain.	
	It supplies nerves to skeletal muscles (motor nerves)&Sensory nerves carry impulses from senses organs to brain	
	The function of CNS occurs according to the will power of the person.	
	It enables a person to adjust with external environment.	
	Central nerves system (CNS) is related with sensory & motor activity.	
	the neural canal of the vertebra	
	Spinal cord:- it is an elongated and almost cylindrical part of the central nervous system. It is situated in	
	cerebellum.	
	The brain is formed of cerebrum, the mid brain, the pons varolii, the medulla oblongata, the	
	1) The duramater 2) piameter 3) arachnoidmater.	
	membranes which lie between the skull and the brain. They are named as	
	Brain:- the peripheral part of the brain is made of grey matter and the medulla of the brain is made of white matter. The brain and the spinal cord are completely surrounded by three meanings or	
	Ans:- the central nervous system consists of brain present in the cranial cavity and spinal cord present in the vertebral column.	
)	<ul> <li>Bile has a laxative action and stimulates peristalsis.</li> <li>Describe central nervous system.</li> </ul>	04
	<ul><li>lecithin.</li><li>4) Bile has a laxative action and stimulates peristalsis.</li></ul>	
	3) Excretion of drugs, toxins, bile pigments, hormones, inorganic substance, cholesterol and	
	2) Neutralization of acid entering intestine from the stomach.	
	1) Bile salts are help in digestion and absorption of fat and fat soluble vitamins (A, D, E, K).	
	the intestine. Bile Juice-	
	3) Pancreatic juice contains bicarbonates enzymes which neutralize the acidity of chyme entering	
	2) It plays an important role in the digestion of carbohydrates, proteins and lipids.	
	1) Pancreatic juice has important digestive and neutralizing functions.	
	Pancreatic Juice-	
	<ul><li>chemical injury as well as from the digestive action of pepsin and hydrochloric acid.</li><li>4) Hydrochloric acid kills the bacteria entering the stomach.</li></ul>	
	3) The mucus present in the gastric juice protects the stomach wall from mechanical and	
	2) The intrinsic factor plays an important role in erythropoiesis.	
	1) The gastric juice contains proteolytic enzyme which helps in the digestion of protein.	



n	ir Sl 10.	keletal musc	le		Smo	ooth muscle		
1		hey are unde nuscles	er control of the w	of tl	They are not under the control of the will ie. They are involuntary muscles			
2	2 Se	everal nucle	us can be seen	Only	y one central nucleu	JS		
3	S SI	urrounded b	y fine sheath knov	but	There is no distinct sarcolemma but very fine membrane surrounds each fiber.			
4	L TI	hey are long	er around 35 cm t	y are short around ! 00 μm	50 μm			
5	5 TI	They are found in limb muscles and large organs       They forms the walls of viscera         example stomach, intestine,       urinary bladder, uterus, blood         capillaries etc       Capillaries etc						
6	5							
. 6) Att	tempt a	ny four of th	e following.				16	
	-		e following. blood group syst	em.			16 04	
De	-	n detail ABO		1	Can donate person wit blood grou	h the blood	04	
De	escribe ir	n detail ABO	blood group syst	Agglutinin in	person wit	h the blood ip from person with blood	04	
De B	escribe ir	oup Agg	blood group syst	Agglutinin in Plasma / antibody	person wit blood grou	h the blood ip from person with blood group	04	
De B 'A 'B	escribe ir Blood Gro	n detail ABO	blood group syst	Agglutinin in Plasma / antibody 'b'	person wit blood grou 'A'	h the blood ip from person with blood group 'A' , 'O'	04	
De B 'A 'A	escribe ir Blood Gro A' B'	n detail ABO pup Agg / an 'A' 'B' 'A'	blood group syste glutinogen in RBC ntigen	Agglutinin in Plasma / antibody 'b' 'a'	person wit blood grou 'A' 'B'	h the blood ip from person with blood group 'A' , 'O' 'B' , 'O' 'A','B' , 'O'	04	
De B 'A 'A	escribe ir Blood Gro A' B' AB'	n detail ABO pup Agg / an 'A' 'B' 'A'	blood group syste	Agglutinin in Plasma / antibody 'b' 'a' -	person wit blood grou 'A' 'B' 'A' , 'B'	h the blood ip from person with blood group 'A' , 'O' 'B' , 'O' 'A','B' , 'O'	04	



	Ans:-	
	Utricle Temporal Malleus Semicircular caus Auditory Inerve Helix Tympanic Stapes Cochlea Acoustic Lobule meatus Paryngeal tympanic auditory tube	
	<ul> <li>Ear is divided into three parts</li> <li>1) External ear:- It helps to collect sound waves. The pinna of ear is irregularly shaped &amp; is composed of cartilage &amp; fibrous tissues. The external auditory meatus conveys the sound waves to the tympanic membrane.</li> <li>2) Middle ear:- It is small chamber internal to the tympanic membrane &amp;contains air. The Eustachian tube runs forward from the cavity of the middle ear into the naso-pharynx where it opens. Thus the air pressure may be equalized on each side of the drum. The auditory auscicle viz malleus, incus and stepus are three small bones arranged across the middle air like a chain reaching from tympanic membrane to the inner ear.</li> <li>3) Internal ear:-It consists of several cavities which channel the temporal bone. It consists of the auditory nerve which finally conveys the information to the cerebral cortex.</li> </ul>	
	Function: -Ear is organ of Hearing.  Describe the cavities in the brain.	04
c)	Ans:- Within the brain there are four irregular shaped cavities or ventricles containing Cerebrospinal fluid.	04
	<ul> <li>1)Right &amp;Left lateral ventricles:- They lie within the cerebral hemisphere. One on either side of the medium plane just below the corpus callosum.</li> <li>They show presence of blood capillaries.</li> <li>2)The Third Ventricle:- It is cavity containing the cerebrospinal fluid(CSF) situated below &amp; behind the lateral ventricle &amp; between the two parts of thalamus. It communicates with lateral ventricles by openings known as interventricular foramina.</li> <li>3) the fourth ventricle:- it is present below and behind the third ventricle and between</li> </ul>	



	cerebellum and pons varolli. It produces cerebro spinal fluid.	
d)	How gases exchange between a capillary and alveolus.	04
	Ans:-	
	The process of respiration is divided into two phases, external respiration and internal respiration. In external inspiration, air which contains oxygen is taken in. It flows along the trachea and bronchial tubes to the alveoli, where it intimate comes into contact with the blood in the pulmonary capillaries. Through the alveolar-capillary membrane, oxygen passes across and is taken up by the hemoglobin of red blood cells. It is then carried to the heart and is pumped in arteries for circulation to all parts of the body. Simultaneously carbon dioxide, which is a waste product of metabolism, passes across the membrane from the blood capillaries to the alveoli. From alveoli, it passes through the bronchial tubes and trachea and is breathed out throw nose and mouth.	
e)	Name and give functions of hormones secreted by pituitary gland.	04
	Ans:-	
	<ul> <li>a) Growth hormone:- it stimulates protein synthesis in growth and repairs all tissues.</li> <li>b) TSH -thyroid stimulating hormone:- when the blood level of thyroid hormone is more then secretion of TSH is reduced and vice versa.</li> <li>c) Adrenocorticotropic:- it controls secretion of adrenal cortex hormones.</li> </ul>	
	<ul> <li>c) Adrenocorticotropic:- it controls secretion of adrenal cortex hormones.</li> <li>d) Prolactin:- this hormone affects directly on breast, immediately after parturition.</li> </ul>	Any 4
	e) Gonadotropic hormone:- It helps to promote the growth and development of ovaries, uterus, vagina and fallopian tubes by the secretion of follicle stimulating hormone and leutinising hormone.	
	f) Oxytocin:- it promotes contraction of uterine muscles	
	g) Antidiuretic hormone:- it increases permeability to water of distal and collecting tubules of nephrone thereby increasing reabsorption of water.	
f)	Describe in detail structure of skin.	04





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