## **Model Question Paper**

## Structure and Functions of Human Body Organ Systems (B) - Part I

	10th Standard						
	Science	Reg.No. :					
I.A	answer all the questions.	L					
II.U	Use Blue pen only.						
III.	Question No 17 is compulsory.						
Γime	: 01:15:00 Hrs			To	otal N	1arks	;: 35
	Section-A				1	0 x 1	= 10
	Inipolar neurons are found in the						
(á	a) Brain (b) Spinal Cord (c) Embryonic nervous tissue (d) Adult nervous tissue						
	he sensory organs contain						
(a	a) Unipolar neuron (b) Bipolar neuron (c) Multipolar neuron (d) Medullated neuron						
3) T	he part of brain which controls emotional reactions in our body is						
(á	a) Cerebellum (b) Cerebrum (c) Thalamus (d) Hypothalamus						
1) O	one of the following is a part of the brain stem. Pick it out.						
(á	a) Forebrain and midbrain (b) Midbrain and hindbrain (c) Forebrain and hindbrain (d) Forebrain and spinal cord						
5) S	pinal nerves are						
(a	a) sensory nerves (b) motor nerves (c) mixed nerves (d) innervating the brain						
5) A	n endocrine gland found in the neck is						
(a	a) adrenal gland (b) pituitary gland (c) thyroid gland (d) pancreas						
7) A	n endocrine gland which is both exocrine and endocrine is the						
(a	a) pancreas (b) pituitary (c) thyroid (d) adrenal						
3) N	lormal blood glucose level in 1dl of blood is						
(a	a) 80-100 mg/dl (b) 80-120 mg/dl (c) 80-150 mg/dl (d) 70 <mark>-120 mg/dl</mark>						
9) T	he "T" lymphocytes are differentiated to resist infection in the						
(a	a) parathyroid gland (b) lymph gland (c) thymus gland (d) adrenal gland						
LO) Ir	n Meiosis-I, the pairing of homologous ch <mark>romoso</mark> mes take place <mark>during stage.</mark>						
(a	a) leptotene (b) zygotene (c) pac <mark>hytene</mark> (d) diplotene						
	Section-B					5 x 2	= 10
l1) C	opy the diagram and label any two part <mark>s in the g</mark> roup given: (cyt <mark>on, axon, de</mark> ndron, termin <mark>al b</mark> ranches)						
	al C						
	M. Committee of the com						

12) The diagram is of the human brain. Shade the areas marked A and B in the parts of the brain, corresponding with the function. A. Seat of smell B. Seat of vision



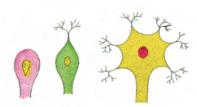
13) Copy the diagram and label the parts with the help of the clues given:





i) It is otherwise called supra renal gland. ii) It secretes two hormones, namely aldosterone and cortisone.

14) Copy and identify the types of neurons given below:



15) Here are some statements about meiosis. State whether each of them is true or false: i) It takes place in somatic cells. ii) Meiosis is also called reduction division. iii) Pairing of homologous chromosomes is called crossing over. iv) Meiosis leads to variations which form the raw material for evolution.

**Section-C** 3 x 5 = 15

16)	Jse words from the given list to complete the following paragraph. (The words may be used once/ more than once / not at all). (Skull, Vertebral column, Piamater,					
	Arachnoid membrane, Brain, Spinal cord, Meninges, Duramater) The central nervous system is covered by three protective coverings collectively called The					
	outermost cover lying below the and is double thick and is called The middle covering is thin and vascularised and is called The					
	innermost cover is a very thin delicate membrane and is closely stretched over the outer surface ofand and is called					
17)	7) a) Match these parts with their functions:- medulla oblongata, cerebellum, forebrain, thalamus, cerebral cortex, hind brain, pons, hypothalamus a) Sleep centre and					
	respiratory centre b) Several reflexes involved in the regulation of heart beat, blood vessel contraction, breathing etc. c) Consists of cerebrum, thalamus and					
	hypothalamus d) Motor and sensory areas e) A major conducting centre for sensory and motor signalling f) Regulation of sexual behaviour g) Consists of pons,					
	cerebellum and medulla oblongata h) Co-ordinates the group movements of voluntary muscles, as in walking or running					
	(OR)					

b) Observe the diagram of the human brain and identify the areas mentioned: i) The area responsible for consciousness, intelligence, memory, imagination and reasoning. ii) The area responsible for regulation and co-ordination of group movements of voluntary muscles. iii) The area responsible for sleeping and respiration. iv) The area responsible for reflexes involved in the regulation of heart beat, blood vessel contraction, breathing etc



