

Biology - 12th Class Biology Chapter 17 Short Questions Preparation

	Q1.	What is	action of	of nicotine	on coordination?
--	-----	---------	-----------	-------------	------------------

- **Ans 1:** Nicotine affects post synaptic membrane in CNS and PNS.lt minimizes the action of acytylcholine on the nicotine receptors. So it is sitmulant of nerve impluse. It increases the heart beat rate, blood pressure and digestive tract mobility. Nicotine may cause vomiting, diarrhoea and even cause water retention relation by the kidneys.
- Q2. Write down the role of hypothalamus in chemical coordination.
 - **Ans 1:** It is a part of fore brain. It is here that many of the sensory stimuli of nervous system are converted into hormonal responses. It is believed that oxytocin and ADH are produced in hypothalamus.
- Q3. Give the role of insulin and glucagon.
 - Ans 1: Insulin controls the blood sugar level by different ways. It may be as
 - Ans 2: By converting glucose in to glycogen
 - Ans 3: By converting glucose in to proteins or fats
 - Ans 4: By increasing its utilization in the cell
 - **Ans 5:** By inhibiting the conversion of glycogen in to glucose Glucagon increases the blood sugar level. This is done by converting stored glycogen in to glucose.
- Q4. What is the role of anti diuretic hormone(ADH)?
 - **Ans 1:** ADH secretion cause decrease in blood pressure, blood volume and osmotic pressure of the blood detected by osmoreceptors in the hypothalamus. It is mainly control the concentration of urine.
- Q5. Define receptors. Give their types.
 - **Ans 1:** Receptors are the sensory organs which receive stimulus and transfer it to associative neurons via sensory neurons for further action e.g,eye,ear,nose,skin and tongue.
- Q6. Compare photoreceptors with chemoreceports.
 - Ans 1: Chemoreceptors These are sensitive for chemical changes. These are for smell, taste and for blood carbon dioxide and oxygen, glucose, amino acids and fatty acids (receptors in hypothalamus)

Ans 2: cones	Photoreceptors Electromagnetic receptors or photoreceptors respond to stimuli of light for example in eyes,rods and
Q7. Wha	t is cushing's disease? Give its symptoms.
	In cushing's disease too much cortical hormones are produced. Symptoms include an excessive protein breakdown muscular and bone weakness.
Q8. Write	e down four functions of auxin.
Ans 1:	Function of auxin are
Ans 2:	Auxin promote cell elongation
Ans 3:	It promotes cell division in cambium
Ans 4:	It can induce parthenocarpy
Ans 5:	It promotes apical dominance
Q9. Nam	e the synthetic auxin used as selective weed killer.
Ans 1:	2-4D (2,4 Dichlorophenoxy acetic acid)is selective weed killer.
Q10. Hov	w ca++concentration in human blood is regulated?
	Calcium level in human is controlled by the paratharmone. Low level of calcium ions in the blood stimulate parathyroid to increase the parathormone production whereas high level of calcium ions in the blood suppresses its release.