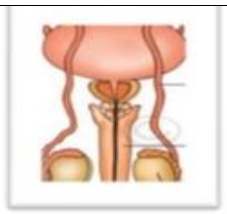
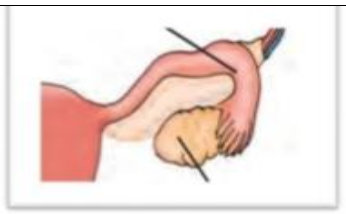
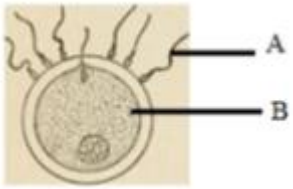
	BCM SCHOOL BASANT AVENUE DUGRI LUDHIANA **Class -8. Subject – Science** **Ch- Reproduction in animals** **Ch- Reaching the age of adolescence** **Assignment**	
	General Instructions: **All questions are compulsory.** **Read each question carefully before answering.** **The assignment includes MCQs, Assertion/Reasoning, Competency-Based Subjective Questions, and a Case Study-Based Question.** **Answer precisely and neatly.**	
1.	Which gland is called the “master gland”? a) Pituitary b) Thyroid c) Adrenal d) Pancreas	
2	The human body undergoes several changes at — a) Infancy b) Childhood c) Puberty d) Old age	
3	In which of the following organisms does metamorphosis take place? a). Silkworm b). Frogs c)Butterfly d)All of the given	
	Assertion/ Reason	
4.	**Assertion :** Humans show internal fertilization. **Reason :** Fertilization takes place outside the body.	
5.	**Assertion:** Regular exercise is important during adolescence. **Reason:** It helps in proper growth and keeps the body fit.	
6	**Subjective**	

	  The given diagrams are of male and female reproductive systems a- Label the indicated parts. b- b- What is the role of uterus?	
7.	Observe the given figure and answer the questions that follow. 1) Label A and B.  2) Identify the process. 3) What happens during the process and what is formed?	
8.	. 1)Why are not all animals oviparous? Does viviparus offer any advantage to organisms? 2) Why is it that dogs always produce several puppies whereas human beings usually produce only one child at a time? 3) under what circumstances can twins be born in humans? 4) List the functions of the jelly cover around frog's egg.	
9.	Name the hormone which would be released during the following situations. Also write function of each. (a) A frightened person (b) Growth of a child to adult (c) Development of caterpillar to moth	

	(d)Development of tadpole to frog	
10.	**Case study** Cloning is the production of an exact or a true copy of a cell, any other living part, or a complete Organism by asexual reproduction. Cloning of an animal was successfully performed for the first Time by Ian Wilmut and his colleagues at the Roslin Institute in Edinburgh, Scotland. They Cloned the sheep named Dolly on July 5, 1996.In the process of cloning Dolly, a cell was collected from the mammary gland of a female Finn Dorsett sheep .Meanwhile, an egg was obtained from a Scottish blackface ewe. The nucleus was Removed from the egg. Then, the nucleus of the mammary gland cell from the Finn Dorsett sheep Was inserted into the egg of the Scottish blackface ewe whose nucleus had been removed. This Egg was implanted into the Scottish blackface ewe. The egg developed normally and finally Dolly was born. Cloning of Dolly was a successful attempt. 1) If a scientist clones a healthy plant that resists disease, what will be the benefit  (a) Finn Dorsett sheep (b) Scottish blackface ewe (c) Dolly for farmers? 2) What could be a possible danger if only clones of one animal or plant are used in farming? 3) If Dolly was identical to her “mother,” why did she not live as long as expected?	