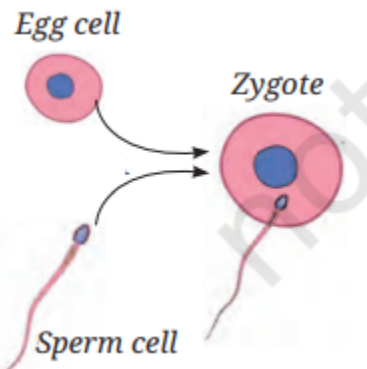


CLASS 8
BIOLOGY
MID TERM EXAMINATION (2025-26)
SET A2

MM:20

S.No.	Questions	MARKS
1	Which of the following is true regarding sexual reproduction in plants. (i) Pollen grains found inside the anther of a flower are the male gametes (ii) Ovules, found deep inside the flower, are the female gametes. (iii) Pollen is carried to another flower by wind, insects, or animals (iv) The fleshy part of the flower around the ovule develops into a fruit (a) (i) and (ii) (b) (ii), (iii), and (iv) (c) (i), (ii), (iii) and (iv) (d) (i), (ii) and (iii)	1
2	What is the percentage probability of having a male or female child during fertilisation in humans? (a) 25% male, 75% female (b) 75% male, 25% female (c) 50% male, 50% female (d) 100% male	1
3	Menstruation in females is regulated by which hormones? (a) Insulin and thyroxine (b) Estrogen and progesterone (c) Adrenaline and insulin (d) Testosterone and insulin	1
4	Why is adolescence often called the “period of storm and stress”? (a) It is due to academic pressure only. (b) It is due to hormonal changes causing emotional and physical changes. (c) It is due to weather changes. (d) It is due to a heavy diet during this period.	1
	Following questions 5 and 6 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below: (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true.	

5	Assertion (A): The father's chromosome determines the sex of the baby. Reason (R): The mother can provide either an X or Y chromosome to the child.	1
6	Assertion (A): The 'eyes' of a sprouted potato can be used to produce new potato plants. Reason (R): Vegetative propagation is the process used to produce new plants with the help of seeds.	1
7	(A) (i) Which hormone helps in metamorphosis in Frogs? Which mineral is required for the production of the hormone? (ii) What happens if the water in which the tadpoles are growing does not contain a sufficient quantity of the particular nutrient. OR (B) Does the reproductive phase of life in females continue throughout life? Give reason to justify your answer.	2
8	(i) Mention any one point of difference between asexual and sexual reproduction. (ii) Identify the process shown in the diagram below and define it.  The diagram illustrates the process of fertilization. On the left, there is a large pink circle labeled 'Egg cell' with a blue nucleus. Below it is a smaller pink circle labeled 'Sperm cell' with a blue nucleus and a long, wavy tail. Arrows from both the egg cell and the sperm cell point towards a larger pink circle on the right labeled 'Zygote', which also has a blue nucleus. This represents the fusion of the two gametes to form a new cell. (iii) Name an organism in which the above process takes place outside the body of the organism.	3
9	Read the passage given below and answer the questions related to the passage and other studied concepts. The human body undergoes several changes during adolescence. These changes mark the onset of puberty. The most important change which marks puberty is that boys and girls become capable of reproduction. Puberty ends when an adolescent reaches reproductive maturity. Along with that, various other changes also take place in the body of the adolescents. Some of these include change in voice, increase in height, change in body shape, etc. (a) Why do boys' voices become hoarse during puberty? (b) Why do young people get acne and pimples on their face? Attempt either (c) or (d) (c) Mention any two changes that take place in the body shape of adolescents. OR	4

	(d) List any two secondary sexual characters that are shown by males and females during adolescence.	
10	Attempt either option (A) or (B) (A) The changes which occur at adolescence are controlled by hormones. Hormones are chemical secretions from endocrine glands. (i) The thyroid gland is located in the neck. Which hormone is secreted by this gland? What will happen if a person's thyroid gland is not producing this hormone properly? (ii) Patients suffering from diabetes take injections of a particular hormone. Name the hormone and the gland which secretes this hormone. (iii) Which hormone is released by the adrenal gland? State its function. (iv) A person has become taller than usual. We can infer that X gland is affected and it is overproducing Y hormone. Identify X and Y. OR (B) (i) List three methods by which HIV can spread from an infected person to a healthy person. (ii) List two myths or taboos related to changes in adolescents that are prevalent in the society	5