

BIOLOGY

(One hour and a half)

Answers to this Paper must be written on the paper provided separately.

*You will **not** be allowed to write during the first 15 minutes.*

This time is to be spent in reading the Question Paper.

The time given at the head of this Paper is the time allowed for writing the answers.

*Attempt **all** questions from **Section I** and **any four** questions from **Section II**.*

The intended marks for questions or parts of questions are given in brackets [].

SECTION-I (40 Marks)

*(Attempt **all** questions from this Section.)*

Question 1.

(a) Name the following :

- (i) The part of the brain associated with memory.
- (ii) The ear ossicle which is attached to the tympanum.
- (iii) The type of gene, which in the presence of a contrasting allele is not expressed.
- (iv) The hormone secreted by islets of langerhans.
- (v) The process of conversion of ADP into ATP during photosynthesis. [5]

(b) State the main function of the following :

- (i) Cerebrospinal fluid.
- (ii) Eustachian tube.
- (iii) Suspensory ligament of the eye.
- (iv) Sperm duct.
- (v) Lenticels. [5]

(c) Copy and complete the following by filling in the blanks 1 to 5 with appropriate words :

The human female gonads are ovaries. A maturing egg in the ovary is present in a sac of cells called (1). As the egg grows larger, the follicle enlarges and gets filled with a fluid and is now called the (2) follicle. The process of releasing the egg from the ovary is called (3). The ovum is picked up by the oviducal funnel and fertilization takes place in the (4). In about a week the blastocyst gets fixed in the endometrium of the uterus and this process is called (5).

(d) Given below are six sets with four terms each. In each set one term is odd and cannot be grouped in the same category to which the other three belong. Identify the odd one in each set and name the category to which the remaining three belong. The first one has been done as an example.

Example : Calyx, Corolla, Stamens, Midrib

Odd term : midrib

Category : parts of a flower.

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Albert A Gayle



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