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Date:

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NORTHWEST ACCREDITATION COMMISSION, USA
SR. SECONDARY/12TH
2017-2018

Subject- **BIOLOGY (PRACTICAL)**Question Paper No. :

B	P	3	3
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Subject Code : **PBI1206**Question Paper Code:

P	B	7	1
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Total Time: 01.30 Hours.**Total Marks: 30**

GENERAL INSTRUCTIONS

1. OPENING AND CHECKING OF THE QUESTION-BOOKLET

Break open the seal of the Question-Booklet only when the announcement is made by the Invigilator. After breaking the seal and before attempting the questions, student should immediately check for:

- a) The number of the printed page in the Question-Booklet is the same as mentioned on the cover page of the Booklet and
- b) Any printing error in the Booklet pages, if any.
Any discrepancy or error should be brought to the notice of the Invigilator who will then replace the Booklet. No additional time will be given for this.

2. No student, without the permission of the Superintendent, or the Invigilator concerned, is to leave his/ her seat or the Examination Room.

3. FILLING UP THE REQUIRED INFORMATION ON QUESTION-BOOKLET AND ANSWER SHEET

After breaking open the seal and checking the Booklet, student should:

- a) Fill up the **Question Paper No. and Question Paper Code** (mentioned on the cover of Question-Booklet) in the space provided on the First Answer Sheet.
- b) Fill up his/her Roll Number on the First Answer Sheet and on each Supplementary Answer Sheet, if taken.
- c) Student should mention the total number of **Supplementary Answer Sheet**, if taken, in the space provided on the First Answer Sheet and also fill up the Serial Number mentioned on each **Supplementary Answer Sheet** along with his/her Roll Number in the register maintained by the Invigilator. Student must tie all the Answer Sheets with the thread provided by the Invigilator.

4. INSTRUCTIONS ABOUT QUESTION PAPER

- a) This Question Paper includes five questions. All questions are compulsory.
- b) All questions are carrying six marks each in approximately 80-120 words.

5. Student found in possession of Cellular Phone / Mobile Phone / Pager or any other Communication Device and/or any Book/Note whether using or not, will be liable to be debarred for taking examination(s) either permanently or for specified period or/and dealt with as per law or/and ordinance of the School/SERI according to the nature of offence, or/and he/she may be proceeded against and shall be liable for prosecution under the relevant provision of the Statutory Law.

THE ANSWER SHEET IS TO BE RETURNED ON COMPLETION OF THE TEST

This Question Paper **MUST** be attached with Answer Sheet

Question 1. Briefly explain the principle, procedure and the role of ELISA.

OR

What is somatic hybridisation ? Explain the various steps involved in the process. Mention any two uses of somatic hybridisation.

Question 2. Why do C_4 plants have dimorphic chloroplasts? Explain the different steps involved in C_4 photosynthetic carbon cycle in such plants.

OR

Explain the electron transport system. Where does it occur in a mitochondrion and what is the role of oxygen in it ?

Question 3. Draw a diagram of the longitudinal section of a mature anatropous ovule and label any ten parts in it.

OR

Explain the process of biosynthetic phase of photosynthesis occurring in the chloroplast.

Question 4. Describe the process of development of root nodules in a leguminous plant. Name the oxygen scavenger molecule present in the root nodules.

OR

Explain the mechanism of muscle contraction by sliding filament theory.

Question 5. Show diagrammatically the stages of embryonic development from zygote upto implantation in humans.

OR

Domestic and sewage effluents can cause algal bloom, biomagnification, eutrophication. How? What effect does it have on BOD? What is cultural eutrophication?

END OF THE QUESTION PAPER