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Roll No.

Date:

NORTHWEST ACCREDITATION COMMISSION, USA

GRADE 10TH (Secondary)

Subject- Science (Practical)

Subject Code – PS203

Question Paper No. :

Question Paper code:

Important 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.

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

P.T.O.

Total number of questions: 5

Marks allocated to each question: 6

Total marks: 30

- Question 1. (a) What is a magnetic field? How is the direction of magnetic field at a place 5 determined
- (b) State the rule for the direction of magnetic field produced around a current carrying straight conductor. Draw the pattern of this field.

OR

- (a) Draw a neat diagram of human excretory system and label the parts that:
- (i) produces urine
(ii) releases urine to outside
- (b) What are the end products of digestion of fat and protein in human beings?

- Question 2. What are magnetic field lines? List three characteristics of these lines. Describe in brief an activity to study the magnetic field lines due to a current flowing in a circular coil.

OR

With the help of an activity, explain that hydrogen and oxygen are released when electric current is passed through water.

- Question 3. (a) Distinguish between renewable and non-renewable sources of energy giving one example of each.
- (b) Why is the use of wood as a fuel not advised although forests can be replenished?

OR

- (a) Draw neat and labelled diagram of digestive system. Write the functions of the following glands.
- (i) Salivary gland
(ii) Liver
(iii) Pancreas

- Question 4. Answer the following questions:

- (i) What is the direction of magnetic field lines outside a bar-magnet?
(ii) Why two magnetic field lines cannot intersect each other?
(iii) What is indicated by crowding of magnetic field lines in a given region?
(iv) What is the frequency of A.C. in India?
(v) State one advantage of A.C. over D.C.

OR

- (a) What is electromagnetic induction?
- (b) Describe the various methods of producing induced current.
- (c) State the rule which gives the direction of induced current.

Question 5. Describe one method for the preparation of ethanoic acid. Give two physical properties and three uses.

OR

Give salient features of Darwin's theory of natural selection.

END OF THE QUESTION PAPER

Sample Paper