Day: Monday   **Time:** 2:00 P.M. TO 5:00P.M.
Date: 14-09-2020   **Max. Marks: 100**
                        S-2020-17984

N.B.:

1) Figures to the right indicate **FULL** marks.
3) Use of statistical table and **CALCULATOR** is allowed **WHEREVER** necessary.
4) Answers to both the sections should be written in the **SEPARATE** answer books.

SECTION-I

Write **ANY TWO** long answer questions out of three.

Q.1   Write in details about observational research and clinical trials.   **(15)**

Q.2   Write in details about ethical aspects in research involving human   **(15)**
           participants.

Q.3   Write in details about methods and importance of literature search.   **(15)**

Q.4   Write **ANY SIX** short notes out of seven: **(30)**

    a) Literary research in Ayurveda
    b) Ethics in animal experiments
    c) Application of anumana praman in research
    d) Patents
    e) Ayurvedic pharmacopoeia of India
    f) Peer reviewed journals
    g) IMR and EMR schemes

SECTION-II

Q.5   Explain sampling and census method of sampling. Write down advantages   **(15)**
           of sampling over census.

Q.6   The following are the hemoglobin values (g/100ml) of 12 children   **(10)**
           receiving treatment for hemolytic anemia.

7.3	9.1	8.3	10	9.9	11.4	9.4	6.9	12.4	7.5	9.8	6.7

           Compute the mean and variance.

Q.7   Write **ANY THREE** short notes out of four: **(15)**

    a) Histogram
    b) Pie diagram
    c) Tests of significance
    d) Probability

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