PD-395

(573) M.Sc. MICROBIOLOGY (THIRD-SEMESTER)

Examination DEC.- 2020

Compulsory/Optional

Group-

Paper-III

Name/Title of Paper- BIOSTATSTICS & BIONFORMATICS

Time:-Three House.] **[Maximum Marks:080**

[Minimum Marks 29

नोट : दोनो खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित है।

Note: Answer from Both the Section as Directed. The Figures in the right-hand margin indicate arks.

Section-A

1. Fill in the blanks of the following. (1x10=10)
   - (a) The symbol of the standard devotion is ---------
   - (b) Another name for a random sample is a --------- sample.
   - (c) ---------- Are numerical characteristics of sample.
   - (d) Another term of statistical significance test is ----------
   - (e) ---------- are used with numeric data rather than with categorical data.
   - (f) As sample size increases, the standard error of the mean will----------
   - (g) When the probability of obtaining the study sample result is sufficiently low the researcher should ------ the null
   - (h) Random sample equal to ----------
   - (i) SRS stands for ----------
   - (j) Write website address of NCBJ
2. Answer the following questions. 2x5 = 10
   - (a) What do you understand by mean?
   - (b) What is standard deviation? (c) Write about conditional probability.
   - (d) Write about ANOVA. (e) Write a note on protein folding.

SECTION - B

Answer all questions; 15x4 = 60

Unit -I

3. Find the mean of the following data.

Class	16-20	21-25	26-30	31-35	36-40	41-45
Frequency	2	7	14	8	8	1

OR

Write short notes on the following.

- (a) Graphical representation of statistical data.
- (b) Merits and demerits of mode.

Unit - II

4. Find the standard deviation for the following data.
   7, 3, 5, 10, 4, 2

OR

Write short notes on the following.

- (a) Mean deviation. (b) Chi-square test.

Unit-III

5. Write in detail about the correction efficient with an example.

OR

Write short notes on the following.

- (a) Regression lines (b) Concept of probability

Unit-IV

6. Write an essay on introduction and scope of bioinformatics.

OR

Write short notes on the following.

- (a) Biological database (b) Entrez

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