T(5th Sm.)-Physiology-H/DSE-A-1/CBCS

2020

PHYSIOLOGY — HONOURS

Paper : DSE-A-1

(Biostatistics)

Full Marks : 50

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Group - A

1. Answer any five questions :

(a) When is median used instead of mean of a set of data?

- (b) What is statistical parameter?
- (c) What is random sampling?
- (d) When would you draw horizontal bar diagram?
- (e) Standard deviation is :

- (i) square root of the sum of squares.
- (ii) square root of the mean of squared deviations of the scores from the mean.
- (iii) square root of the mean squares.
- (f) What does P_{50} indicate in statistics?
- (g) Name the variable which cannot be expressed in numerical scores.
- (h) Write the formula used to graphically represent a pie diagram.

Group - B

2. Answer any two questions :				
(a)	Write a short note on utility and misuse of statistics.	5		
(b)	Describe the basic properties of Normal distribution.	5		
(c)	How do you calculate product moment correlation from two data sets?	5		
(d)	Mention the significance of degrees of freedom. What is critical 't' score?	3+2		

Please Turn Over

 2×5

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(2)

Group - C

Answer any three questions.

3.	(a)	"Student's t distribution is mesokurtic"– Justify with reasons whether the statement is t false.	rue or
	(b)	State the differences between paired t test and unpaired t test.	
	(c)	When would you compute z score and why?	3+5+2
4.	(a)	What is distribution-free statistics?	
	(b)	Briefly describe the procedure of chi-square test.	2+8
5.	Writ	e short notes :	5+5
	(a)	Errors of inference	
	(b)	One tail and Two tail 't' test.	
6.	Desc	cribe a method of representing frequency distribution of a continuous variable.	10
7.	(a)	What is meant by variance?	
	(b)	Discuss the principle of its analysis in one-way method.	2+8