

2018**M.Sc.****2nd Semester Examination****CLINICAL NUTRITION & DIETETICS****PAPER—CND-201****Subject Code—25***Full Marks : 40**Time : 2 Hours*

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Question No 1 and any three from the rest.

1. Answer any ten questions : 10×1
- (a) Define median.
 - (b) Write any one assumption of normal distribution.
 - (c) Write any one condition for application of Yate's correction.

(Turn Over)

- (d) Why is correlation more powerful than Chi-square test ?
- (e) Write the statement of H_0 .
- (f) What do you mean by kurtosis ?
- (g) Which statistical test will you adopt to find out the association between attitude and practice level to avoid fast food in a community ?
- (h) Compute mean value if 12 students of your class obtained 80% marks in CND 201 and students obtained 65% mark in the same paper.
- (i) Suppose the computed 't' value of your experimental data is 6.38 but Critical 't' value of one tail 't' test at df 8 is 4.05. What could be the interpretation regarding the effect of drug on diminution of blood sugar level ?
- (j) Define 'Regression'.
- (k) Write any one application of MS Power point.
- (l) What is the full form of SPSS ?
- (m) What is factorial design ?
- (n) Write an example of zero correlation.
- (o) Write any one application of MS EXCEL in Nutrition.

2. (a) Compute r_p between blood glucose (mg%) and applied dose of isulin ng/patient) using the following data.

Blood glucose — 140, 122, 133, 140, 125, 148,
(mg%) 133, 125, 120, 128, 135, 138.

Applied dose — 2.4, 3.8, 2.4, 2.6, 1.8, 1.6,
Insulin (ng) 1.5, 1.5, 1.9, 2.1, 2.6, 2.5.

$t_{0.01(10)} = 3.169$, $t_{0.05(10)} = 2.228$.

- (b) What do you mean by multivariate correlation?

8+2

3. (a) Compute the median of the following frequency distribution of haemoglobin value (g%) of 10 students.

Class interval 8-10 11-13 14-16 17-19

Frequencies 5 12 18 5

- (b) What do you mean by negative skewness and positive skewness.

7+3

4. (a) What do you mean by dependent and independent variables?

- (b) Out of a total of 270 patients in a hospital, 120 are suffering from diabetes, 80 are suffering from hypertension and 70 are suffering from CVD. Test whether the results diverge significantly from the expectation that an equal proportion of disease prevalence in the patients of that hospital.

$$\text{Critical } X_{0.05(2)}^2 = 5.99 .$$

3+7

5. (a) What are the characteristics of Computer ?
- (b) Write the limitations of Computer ?
- (c) State the different components of CPU. 4+3+3
6. (a) What do you mean by Application Software ?
- (b) What is Cache Memory ?
- (c) State the characteristics of Non-impact Printer.
- (d) Write the programme for drawing bar diagram in MS EXCEL. 2+2+2+4
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