

**2016**

**M.Sc.**

**2nd Semester Examination**

**CLINICAL NUTRITION & DIETETICS**

**PAPER—CND-201**

*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 of the following.**

**1. Answer any ten of the following : 1×10**

- (a) Write any one condition for the application of Yates' correction.
- (b) What do you mean by independent variable ?
- (c) What do you mean by 'Non Parametric Variable' ?

*(Turn Over)*

- (d) What is  $H_a$  ?
  - (e) What is 'Single Group Experiment' ?
  - (f) Write the formula for the computation of lowest 'fe'.
  - (g) What is positive correlation ?
  - (h) Write the formula of SE computation from SD in small size of sample.
  - (i) What is terabyte ?
  - (j) What is meant by binary system ?
  - (k) Write the full form of ALU.
  - (l) Write the name of a software required for image editing.
  - (m) Write the name of different types of printer.
  - (n) What is RAM ?
  - (o) What is dongle ?
2. Blood Glucose levels of 10 diabetic patient before and after treatment of therapeutic diet for 2 months given below. Does the therapeutic diet make a significant correction on blood glucose level ?

Individuals: 1 2 3 4 5 6 7 8 9 10

Blood Glucose  
level (mg/dl)

Before

treatment: 190 180 210 170 220 165 195 210 190 205

After

treatment: 170 172 190 155 190 160 185 180 170 180

$$t_{0.05(9)} = 1.833, t_{0.01(9)} = 2.821$$

10

3. Out of 15 hyperlipidaemic patient, 4 shows normo reaction to prawn allergy, 9 shows hyperreaction to prawn allergy and rest shows hyporeaction to that allergy.

Out of 25 nonhyperlipidaemic patients, 13 shows normo reaction, 6 shows hyperreaction and rest shows hyporeaction to prawn allergy. Is there any significant association between the allergy reaction and hyperlipidaemic state? [Other information would be provided if required].

10

4. Find whether or not there is a significant correlation between Nitrogen-retention in body ( $\mu\text{g}$ ) and first class protein consumption (gm) using 'Product Moment Correlation'.

Individuals	1	2	3	4	5	6	7	8	9
Nitrogen retention( $\mu\text{g}$ )	: 20	25	18	30	35	19	22	24	20

Protein Consumption(gm)	: 60	75	62	85	90	65	63	70	62
-------------------------	------	----	----	----	----	----	----	----	----

$$t_{0.05(7)} = 2.365, t_{0.02(7)} = 2.998$$

$$t_{0.01(7)} = 3.499, t_{0.001(7)} = 5.405$$

10

5. (a) What are the basic differences between hardware and software ?
- (b) Discuss about different generations of computers.
6. (a) Draw a diagram of basic computer architecture.
- (b) How do you calculate average and standard deviation using Ex-cel ?
- (c) What is your idea about programming language ?

3+7

3+3+4