2015

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 : 110

(a) Write the condition for the application of one tail 't' test.

(b) What do you mean by dependent variable ?

(c) What do you mean by zero correlation ?

(d) When will you apply chi square test for goodness of fit ?

(e) Write an examle for the application of chi square test .

(f) Write the difference between Ho and Ha.

(g) Define mean.

(h) Write the full form of RAM.

(i) What is database?

(j) What is volatile memory?

(k) Distinguish bit and byte.

(l) What is programming language ?

(m) Write the full form of www.

(n) What is 'the use of MS-Exel ?

(o) Give the command to delete a file permanently from computer.

2. (a) Write the assumption for 't' test.

(b) Head cicumferance (cm) of 8 male and 8 female children of same age group given below. Find out

whether or not the head circumference of male children is significantly higher than that of female.

	1	2	3	4	5	6	7	8
Male Children :	36	38	32	40	35	37	34	39
Female Children :	31	30	36	32	36	33	28	37

Critical 't' value

One tail – $t_{0.05(14)} = 1.761$, $t_{0.01(14)} = 2.624$

Two tail – $t_{0.05(14)} = 2.145$, $t_{0.01(14)} = 2.977$

3+7

3. (a) Write the assumption for chi square test of independence.

(b) Out of 12 diabetic subjects, 7 were found to be infertile while rest 5 were fertile. Out of 16 normal subjects 6 were found to be nonfertile and rest 10 were fertile. Find out whether there is any significant association between daibetes and infetility.

$\chi^2_{0.05(1)} = 3.84$, $\chi^2_{0.01(1)} = 6.64$

3+7

4. (a) Classify correlation.

(b) Compute the 'Spearman's Rank Correlation' between body weight (kg) and haemoglobin level (gm%) of 12 University students using the following data. Interpret your results. 10

Students	1	2	3	4	5	6	7	8	9	10	11	12
Weight	60	70	64	58	56	60	64	64	60	66	63	68
Hb level	12.0	13.5	10.5	9.0	10.0	12.5	9.5	11.0	11.5	13.5	13.0	14.0

5. (a) How does a complier and interpreter works ?

(b) Distinguish between system software and application software. 5+5

6. (a) Name the input and output devices of a computer.

(b) What are the five basic operations performed by the computer ? 3+7