MCC/21/M.Sc./Sem.-III/FSN/1

PG (CBCS)
M.Sc. Semester-III Examination, 2022
FOOD SCIENCE & NUTRITION
PAPER: FSN 302
(STATISTICS, COMPTER APPLICATION & RESEARCH METHODOLOGY)
Full Marks: 40   **Time: 2 Hours**

GROUP- A

Answer any <u>FOUR</u> of the following questions: 2×4=8

1. Write any two criteria of an ideal researcher.
2. Differentiate between internet and intranet.
3. How do you interpret Median ± 1SD and Median ± 2SD?
4. Differentiate between questionnaire and interview in survey method?
5. Define Hypothesis with its types.
6. Differentiate between predictor and criterion with example.
7. RDA is what type of statistical measure – answer with justification.
8. Write two disadvantages of LAN.

GROUP- B

Answer any <u>FOUR</u> of the following questions: 4×4=16

9. Compute the mean and variance of the following body weights [kg] score:

Class intervals	51-53	54-56	57-59	60-62	63-65	66-68	69-71
Frequencies	3	8	14	28	15	8	3

10. Differentiate between system and application software with examples.
11. What do you mean by catch memory and its different types?
12. What are the steps in an ideal research proposal?
13. Write the different types of research with examples.
14. Define research approach. Differentiate between research methods and methodology.
15. Calculate computed z-value, when sample mean =50kg, Population mean = 55kg and SE= 2.553 and justify the nutritional status of that adult on your result.
16. What are the assumption in ANOVA? Write with examples of different types of ANOVA.

(1)

(P.T.O.)

GROUP - C

Answer any TWO of the following questions: **8×2=16**

17. Distinguish between unpaired and paired t-test. How do you compute 't' value from the following pair scores of hemoglobin percentage (gm %) of 9 adolescent girls before and after iron tablet supplementation.

    Hb% before Fe^+ Supple: 10   07   09   10   09   08   11   10   10

    Hb% after Fe^+ Supple: 10   10   12   13   12   10   13   11   16

18. Write the assumptions of product moment correlation of coefficient. Compute Spearman Correlation of coefficient of the following body weight (Kg) & body length (cm) of the 07 babies.   3+5

Sl no of Babies	1	2	3	4	5	6	7
Body length (cm) (X)	55	80	95	85	75	95	94
Body weight (kg) (Y)	5.5	9.5	9.5	6.5	4.5	6.5	4.5

19. Write any two types of probability sampling. Why is non probability sampling not accepted in experimental research? What are the human values researchers should be followed?   3+2+3

20. Write the full names of PROM, HDD, ISP, LED, CRT. Distinguish between input and output devices of a computer with examples.   5+3

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