BOWEN UNIVERSITY, IWO COLLEGE OF HEALTH SCIENCES NUTRITION AND DIETETICS PROGRAMME 2023/2024 FIRST SEMESTER EXAMINATION

COURSE CODE: NTD 319

COURSE TITLE: FOOD CONSUMPTION SURVEY

CREDIT UNIT: 3

TIME: 3 HRS

INSTRUCTION: ANSWER FIVE QUESTIONS (At

least TWO from each section)

Section A

1. a. Define food composition data	2marks
b. Mention 2 uses of food composition data	2marks
c. Highlight 3major components of food composition table and give two examples e	ach
	10marks
2. a. Enumerate three major ways to obtain data on the nutrient content of foods with a each	an example 6marks
b. Discuss quality consideration in food composition	5marks
c. List six methods of ensuring quality considerations in food composition	3marks
3. a. Discuss any two method of ensuring quality considerations in food composition	10marks
b. Mention two strengths of food composition database	2marks
c. Mention two weaknesses of food composition databases	2marks

Section B

- 4. Dietary survey is done to assess the quantities of food items and nutrients consumed by the household or an individual. Write briefly on two methods of dietary assessment stating two advantages and disadvantages each.

 14marks
- 5. A given amount of food will give a number of calorie when metabolized. Calculate the food energy value of the food consumed by Kola during breakfast assuming the egg contains 30% protein, 9% fat, 1.5% carbohydrate; cornflakes 70% carbohydrate, 3% fat, 15% protein and the milk 40% protein, 20% fat, and 15% carbohydrate. His food intake was 50g of eggs, 0.9kg of cornflakes with milk and 6 slices of bread. A slice of bread weighs about 25,000mg and the bread is made of 80% carbohydrate, 3% fat, 0.05% and 10% protein.
- 6. Adeola, a 21 year old female student, had three wraps of pounded yam at the BBSF cafeteria with 2 serving spoons of efo riro, 2 pieces of ponmo and 1 medium sized fried mackerel fish for lunch. She ate a slice of water melon and drank 75cl of chilled zobo drink afterwards. She consumed 5 pieces each of fried yam and akara and 1 small piece of roasted chicken for dinner along with a glass of orange juice, 35cl. A wrap of pounded yam weighed 98g, and all the efo riro consumed weighed 220g. A piece of ponmo weighed 36g while the fish she consumed was 90g. The water melon was 60g, a piece of fried yam weighed 25g while akara weighed 23g. The roasted chicken weighed 184g. Using the extract from the Nigerian Food Composition Data below, calculate her nutrient intake and the percentage RDA for the day.

Food item (100g)	Energy (kcal)	Protein (g)	Fat (g)	Carbohydrate (g)	Fiber (g)	Calcium (mg)	Iron (mg)	Sodium (mg)	Vitamin A (mcg)	Riboflavin (mg)
Yam, white, peeled, boiled, pounded	108.95	1.03	1.42	22.21	1.60	42.55	1.17	450		
Amaranthus leaves cooked	54.70	4.00	06.0	7.00	1.30	909	1.70		228	0.23
Cow skin, thick, boiled, no salt	224.65	46.90	1.09	08.9	0.02	61	4.3	3	•	
Mackerel, fried, with bones	137.50	15.70	8.30	1		21	0.90	110		0.28
Water melon, raw (edible portion)	30.96	0.56	0.24	6.50	0.29	7	0.24	-	28	0.021
Roselle calyx extract - zobo	43.70	8.0	0.70	8.55		50.5	0.11	15		0.07
Yam, white, fried	277.30	3.00	5.30	53.8	1.20	61	4.60	510		
Beans, soaked in water, dehulled, ground, mixed with salt and pepper, fried with vegetable	219.63	12.09	8.47	23.75	1	8.02	1.23	7.97	1	
oil Roasted chicken	123.34		13.16		2.45				31	0110
Orange juice	64.04		•	15.47	1.09	5.81	8.1	988	ol ,	0.06
*RDA	2000	46	20	130	28	1000	18	2300	700	-