KALYAN COLLEGE OF NURSING
RAJURA, CHANDRAPUR

BASIC B.SC 2st SEMESTER **DURATION: -3HR**

SUBJECT: - BIOCHEMESTRY AND NUTRITION MAXIMUM MARK:-75

PRE-FINAL EXAMINAION

Instructions: *1) Use blue/black ball point pen only.*

2) Do not write anything on the blank portion of the question paper. Rough Work should be not be done on the Answer Sheets or anywhere on the question paper except the specific space provided for the rough work. If written anything, such type of act will be considered as an attempt to resort to unfair means.

3) All questions are compulsory.

4) The number to the right indicates full marks.

5) Draw diagrams wherever necessary.

6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.

7) Use a common answer book for all sections.

SECTION – A (BIOCHEISTRY)

Q.1] MULTIPLE CHOICE QUESTION. [6X1=06MARK]

1. Which of the following is a non-reducing sugar?
   a) Sucrose b) Maltose
   c) Glucose d) Lactose
2. Which is the most essential fatty acid?
   a) Linolenic acid b) Linoleic acid
   c) Arachidonic acid d) Oleic acid
3. Non-essential amino acid are:
   a) Not needed in the diet b) Not essential for growth
   c) Not required for protein synthesis
   d) Not synthesized in the body
4. Hexokinase is a:
   a) Ligase b) Transferase
   c) Oxidoreductase d) Lyase
5. The following is a correct representation of PH
   a) $\log_{10}[H^+]$ b) $\log_e[H^+]$
   c) $\log_{10}[1/H^+]$ d) $\log_e[1/H^+]$
6. Conjugated bilirubin in urine is the absence of urobilinogen suggested
   a) Hemolytic Jaundice b) Obstructive jaundice
   c) Hepatocellular Jaundice d) None of the above

Q.2] BREIF ANSWER QUESTION (ANY 2) [2X2=4 MARK]

1) Oral Glucose Tolerance Test
2) Serum protein electrophoresis
3) Respiratory acidosis
4) Van den Bergh Test

Q.3] SHORT ANSWER QUESTION (ANY 1) [1X5=5 MARK]

1) Thyroid function test
2) Hinge region of Immunoglobulin

Q.4] LONG ANSWER QUESTION (ANY 1) [1X10=10 MARK]

1) Define buffer. What are the important buffers present in the body? Explain the role of various buffers in the regulation of blood Ph.

2) Classify immunoglobulin? Described the structure of immunoglobulin.

SECTION – B (NUTRITION)

Q.1] MULTIPLE CHOICE QUESTION. (ANY 2) [1X7=7 MARK]

1. Head circumference measurements are useful in which age of children?
   a) Below 5 years b) Below 3 years
   c) Below 2 years d) Below 10 years
2. Food to be included in fever are:
   a) High fiber food b) Fried fatty food
   c) Plenty of fluids d) Raw vegetables
3. Pregnant women need how much iron?
   a) 30 mg/day b) 36 mg/day
   c) 35 mg/day d) 33 mg/day
4. The agency that deals with help measures of food source and technology is:
   a) CFTR b) CARE
   c) FAO d) NIN
5. AWW provides direct link to:
   a) People and Government b) Care provide and people
   c) Children and mother d) Government and children
6. At birth average of height of newborn is:
   a) 29cm b) 50cm
   c) 40cm d) 75cm
7. Sterility may be caused due to deficiency:
   a) Vitamin E b) Vitamin C
   c) Vitamin D d) Vitamin A

Q.2] BRIEF ANSWER QUESTION (ANY 4) [2X4=8 MARK]

1. Define food safety.
2. What are the methods of nutritional assessment?
3. Define pasteurization.
4. Define nutritive value of foods.
5. What are amino acids?

Q.3] SHORT ANSWER QUESTION (ANY 4) [5X5=25 MARK]

1. Body mass index.
2. Special feeding technique.
3. Principle method of cooking.
4. Five keys to safer food.
5. National mid-day meal scheme.
6. Assessment of nutritional status.
7. Therapeutic diet.

Q.4] LONG ANSWER QUESTION (ANY 1) [1X10=10 MARK]

1. Define food storage. Explain the preservation. Described the various methods of food preservation and food storage.
2. Define meal planning. Described diet plan children. Explain the principles and steps in meal planning.