P.G. Diploma in Dietetics and Therapeutic Nutrition
Annual Examinations – 2006

Paper PTND – 101
Applied Health Science Nut

Time allowed: Three hours | Maximum Marks: 70

Attempt all questions. Attempt all parts of question at one place

SECTION – I | Marks

Q1. Attempt all the objective type questions given below | 1X20=20

A. Choose the best answer and write in the answer sheet | 1X10=10

1. According to the shape and size flat bone is:

   a) Humerus b) Tarsals

   c) Tibia d) Skull bones

2. Total number of bones in human body are:

   a) 200 b) 212

   c) 206 d) 218

3. Dendrites and axons are cell body of:

   a) Neuron b) Nephron

   c) Tubules d) Collecting Ducts

4. Each cerebral hemisphere is subdivided into lobes

   a) Frontal b) Parietal

   c) Occipital d) All of them

5. Function of occipital lobe is

   a) Voluntary movements of muscle b) Motor Speech area

   c) Sense of smell d) Sensation of light

6. Red blood cells count for female is:

a) About 5-5.5 million / mm^3 b) 4.5-5 million /mm^3

c) 6-6.5 million /mm^3 d) 7-7.2 million / mm^3

7. Granulocytes and Agranulocytes are the type of

a) Eosinophills b) RBC

c) Basophils d) Leucocytes

8. Essential Vitamin for normal blood clotting is:

a) Vitamin A b) Vitamin B

c) Vitamin C d) Vitamin K

9. The bacterial cell shows a typical structure :

a) Prokaryotic b) Eukaryotic

c) Round d) Coiled

10. In which method of preservation water is added back and food returns to its original shape?

a) Drying b) Freezing

c) Irradiation d) Canning

B. State whether following statements are True or False 1X10=10

1. Smooth muscles are made up of mononucleate fusiform, myocytes, varying in length from 15mm in small arterioles to 500mm.
2. Humerus, radius, ulna, femur, tibia, fibula are long bones.
3. The amount of blood flowing from the heart over a given period of time is known as cardiac output.
4. Blood does not carry oxygen from the lungs to the tissues and CO_2 from the tissue to the lungs.
5. Cocci, Spirochaetes are the causitive organism of bacterial diseases.
6. Diptheria is a disease caused by clostridium botulinum.
7. Food poisoning is the toxicity introduced in to food by micro – organisms and their products.
8. Staphylococus aureus causes a disease staphylococcal food intoxification.
9. Non- bacterial and bacterial are the types of food preservation.

10. FIFO is "food in freezer or below 0^0 F"

SECTION – II

Q2. Write short notes on any six of the following 5X6=30

i) Functions of Thalamus
ii) General characteristics of "Protozoa"
iii) Food Poisoning
iv) Food Irradiation
v) Shape of Bacteria
vi) Menstrual Cycle
vii) Functions of Blood
viii) What are the cleaning agents? List out the functions of any one.

SECTION – III

Attempt any two questions of the following

Q3 a) Draw a labeled diagram of Heart. 5+5=10
b) Describe cardiac cycle

Q4 a) Write down the method of food preservation. 5+5=10
b) What are various practices of Food hygiene?

Q5 a) Draw a labeled diagram of renal system. 5+5=10
b) Discuss the process of Urine formation.