

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2017
(Second Semester)

Branch - NUTRITION, FOOD SERVICE MANAGEMENT & DIETETICS

PRINCIPLES OF NUTRITION

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 Define energy.
- 2 Define SDA.
- 3 Write a note on digestion of carbohydrates.
- 4 Give an account on acid base balance.
- 5 Classify lipids.
- 6 What is antagonism?
- 7 What is conjunctivitis?
- 8 Write a short note on pellagra.
- 9 Brief the functions of fluorine.
- 10 Define osteoporosis.

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Explain the determination of energy using bomb calorimeter.
OR
b Brief the factors affecting energy requirement.
- 12 a Explain the functions of carbohydrate.
OR
b Explain the importance of water in the body.
- 13 a Brief the functions and food sources of EFA.
OR
b Write the factors affecting protein utilization.
- 14 a Describe the functions, sources and deficiency of vitamin K.
OR
b Brief the functions, sources and deficiency of Vitamin B12.
- 15 a Give an account of distribution and function of phosphorus.
OR
b Explain the functions and deficiency of Iodine and magnesium.

SECTION - C (30 Marks!)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Elaborate BMR and factors affecting BMR.
- 17 Explain the types, role of dietary fibre in health.
- 18 Elaborate the quality of dietary protein.
- 19 Explain the properties, functions, sources, RDA, deficiency and toxicity of vitamin A&C.
- 20 Describe the functions, sources and deficiency of calcium and iron.

Z-Z-Z

END