

B.Sc.-II/SHNUT/201-C₃P₃/18

B.Sc. Semester II (Honours) Examination 2018
NUTRITION PRACTICAL

Subject Code: 22311

Course Code: SH/NUT/201/C₃P₃

Course Title: Human Physiology II Lab

Time: 2 Hours

Full Marks: 15

The figures in the right hand side margin indicate marks

Answers *all* questions

1. Identify two histological slides focussed under low power objective of compound microscope marked as A and B. Give at least one unique identifying character for each section : 2×2=4
* For one unique identifying character–01
* For correct identification –01
 2. Estimate the percentage of haemoglobin using cyanmethemoglobin method. Mention the principle of this method. Calculate and interpret your result. 6
Principle -2
Result and Calculation–3
Interpretation-1
 3. Laboratory Note Book. 2
 4. Viva-Voce. 3
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INSTRUCTIONS TO THE EXAMINERS

1. One slide from the following group should be given
Gr.A–Lung, Liver, kidney, Stomach, Small intestine
Gr. B-Thyroid, Adrenal, Pancreas, Testis, Ovary.
* Identification time = 1 min/slide. No bonus time should be given.
* If identification is incorrect no credit will be given for identifying character and *vice-versa*.
* No marks for wrong identification.
* Mark should be deducted for wrong spelling.
2. Examiner should check the overall performance of the students.
(Proper measurement of blood and Reagents)
3. Credit should be given on the basis of–
* Laboratory note book having regular signature by class teacher. 1
* Net presentation of the note book. 1
4. Question to be asked 3
From practical performed, instrument used and theoretical knowledge.

General Instructions

The following items are to be sent to HE.

- a. Key book containing the full names, specimen signature, address, and contact number of examiners.
- b. Evaluated answer scripts should be by all examiners.
- c. Award list should be signed by the all examiners.
- d. Marks key (photo copy), top sheet and attendance sheet properly signed by Centre-in-charge.

BNK20104

B.Sc.-II/SHNUT/202/C₄P₄/18

B.Sc. Semester II (Honours) Examination 2018
NUTRITION PRACTICAL

Subject Code: 22312

Course Code: SH/NUT/202/C₄P₄

Course Title: Food Science and Basic Nutrition II Lab

Time: 2 Hours

Full Marks: 15

The figures in the right hand side margin indicate marks

1. Estimate Calcium of supplied milk (A) using EDTA solution by titration method. 10
(Principle-2, Procedure-3, Observation and result-3, Comments-2)
2. Viva-voce 3
3. Laboratory note book 2

BNK22312

B.Sc. Semester II (Honours) Examination 2018

NUTRITION PRACTICAL

Subject Code: 22312

Course Code: SH/NUT/202/C₄P₄

INSTRUCTIONS TO THE EXAMINERS

1. Key to the materials should be submitted along with the answer scripts.
 2. Examiners are requested to provide milk sample (A), reagents, burettes, Conical flasks, pipettes and other materials to the Candidates for Question No.-1
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BNK20104

*BSc.-II/SHNUT-C₃T₃/18***B.Sc. Semester II (Honours) Examination 2018****NUTRITION****Subject Code: 22301****Course Code: SH/NUT/201/C₃T₃****Course Title: Human Physiology II****Time: 1 Hour 15 Minutes****Full Marks: 25***The figures in the right hand side margin indicate marks*

1. Answer *any five* : 1×5=5
 - (a) Mention the name of hormones which are known as catecholamines.
 - (b) Write the site of secretion of STH.
 - (c) What is isometric muscle contraction?
 - (d) Mention two characteristics of slow twitch muscle.
 - (e) Write one important function of “Cells of Sertoli”.
 - (f) What is “morning sickness”?
 - (g) What is neuromuscular junction?
 - (h) Mention the function of axon.

2. Answer *any two* : 5×2=10
 - a. Write the role of insulin on carbohydrate metabolism. 3+2
What is Cushing’s syndrome?
 - b. Mention the structural difference between skeletal muscle and visceral muscle. 3+2
What is “rigor mortis”?
 - c. Describe spermatogenesis. 4+1
Name the cell from which testosterone is secreted.
 - d. Name the different lobes of cerebrum. 1+4
Write the functions of hypothalamus.

3. Answer *any one*. 10×1=10
 - a. Name the hormones secreted from thyroid gland. 2+6+2
Mention the function of thyroxine.
What is Grave’s disease?
 - b. Describe the phases of menstrual cycle. 5+3+2
Write the role of hormone in controlling menstrual cycle.
What is menopause?

BNK22301

B.Sc.-II/SHNUT/202/C₄T₄/18

B.Sc. Semester II (Honours) Examination 2018
NUTRITION

Subject Code: 22302

Course Code: SH/NUT/202/C₄T₄

Course Title: Food Science and Basic Nutrition II

Time: 1 Hour 15 Minutes

Full Marks: 25

The figures in the right hand side margin indicate marks.

1. Answer *any five* questions: 1×5=5
 - (a) Write two important functions of Vitamin-D.
 - (b) Write the names of two important sources of Vitamin C.
 - (c) What is P-P factor?
 - (d) What do you mean by goitrogenic foods?
 - (e) What is angular stomatitis?
 - (f) Why is Zinc important in human body?
 - (g) What is retinol equivalent?
 - (h) What is the physiologically active form of Vitamin D?

2. Answer *any two* questions: 5×2=10
 - (a) Write about Beriberi. 5
 - (b) What is Rickets and Osteomalacia? 2½+2½
 - (c) Define provitamin and antivitamin with example. 2½+2½
 - (d) What are antinutritional factors? What are the factors which effect the iron absorption? 2+3

3. Answer *any one* question: 10×1=10
 - (a) Give the ICMR recommended RDA for an adult woman of the following: (i) Iodine; (ii) Zinc; (iii) Fluoride and (iv) Calcium. 4+6
Describe the hazards of excessive intake of fluoride on human body.
 - (b) Write two important food sources of cyanocobalamine. 2+2+6
What are the causes of cyanocobalamine deficiency?
Write about the deficiency of this nutrient in human body.

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