

BANKURA UNIVERSITY
B. Sc. Semester I (Hons) Examination 2017
NUTRITION

Subject Code : 12312 **Course Code : SHNUT/102/C2 P2**

Course Title : Food science and basic nutrition I (Practical)

Full Marks : 15

Time : 2 Hours

The figures in the right hand side margin indicate marks.

Answers all questions :

1. Qualitatively detect the presence of sugar in the sample supplied marked as – ‘A’. Write down the chemical reactions involved in the detection. 6+4
2. Viva -Voce. 3
3. Laboratory note book. 2

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B. Sc. Semester I (Hons) Examination 2017
NUTRITION

Subject Code : 12311

Course Code : SHNUT/101/C1 P1

Course Title : Human physiology I (Practical)

Full Marks : 15

Time : 2 Hours

The figures in the right hand side margin indicate marks.

Answers all questions :

1. Determine your bleeding time and clotting time by pricking your finger with a sterile needle. 5
2. Measure blood pressure of your classmate. Interpret your result. 4+1
3. Viva -Voce. 3
3. Practical note book. 2

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Subject Code : 12301 Course Code : SHNUT/101/C1 T1
Course Title : Human Physiology I

Full Marks : 25

Time : 1 hour 15 minutes

The figures in the right hand side margin indicate marks.

- 1. Answer any five out of the following questions : 1 × 5 = 5**
- a) What is active transport?
 - b) What do you mean by cristae?
 - c) Write the name of bile salts.
 - d) What is circle of Willis?
 - e) State the function of Kuffer cell.
 - f) Why SA node acts as a pacemaker of the heart?
 - g) Name the organelle responsible for protein synthesis?
 - h) Write the role of calcium ion in blood coagulation.
- 2. Answer any two of the following questions : 5 × 2 = 10**
- a) 'Mitochondria is a power house of cell'- Justify the statement.
Write the function of cell membrane. 2+3=5
 - b) How is sodium reabsorbed in renal tubules? Mention the
function of JG cells. 3+2=5
 - c) Describe in brief how O₂ is transported from blood to the tissue.
What is acclimatization? 4+1=5
 - d) Describe the intrinsic mechanism of blood coagulation. What is
bleeding time? 4+1=5
- 3. Answer any one of the following questions : 10 × 1 = 10**
- a) Briefly describe the ventricular events of cardiac cycle with a
suitable diagram. Mention the peculiarities of cerebral circulation.
What is cardiac output? (4+2)+3+1=10
 - b) State the digestion of protein in pancreatic juice. How is fat
emulsified in G.I. tract? Write the difference between liver bile
and gall bladder bile. (5+3+2)=10