

C 81828

(Pages : 2)

Name.....

Reg. No.....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL/MAY 2015

(U.G.-CCSS)

Core Course—Food Technology

FT 4B 07—FOOD CHEMISTRY AND NUTRITION

Time : Three Hours

Maximum : 30 Weightage

I. Objective type. *All questions are compulsory.*

Multiple choices :

- 1 Which of the following is milk sugar ?
(a) Sucrose. (b) Lactose.
(c) Glucose.
- 2 Which of the following is a disaccharide ?
(a) Glucose. (b) Fructose.
(c) Sucrose.
- 3 Which of the following is a storage component ?
(a) Starch. (b) Cellulose.
(c) Pectin.
- 4 Pigment responsible for yellow color of milk _____.
(a) Carotenoids. (b) Riboflavin.
(c) Xanthophyll.

Fill in the blanks :

- 5 Vitamin A deficiency causes _____.
- 6 One gram of protein gives _____ calories.
- 7 Invert sugar is a combination of _____ and _____.
- 8 The major protein present in milk is called _____.

Match the following :

- | | |
|-----------|--------------|
| 9 Spinach | Anthocyanin. |
| 10 Grapes | Carotenoids. |
| 11 Tomato | Chlorophyll. |
| 12 Carrot | Lycopene. |

(12 × ¼ = 3 weightage)

Turn over

II. Short Answer type questions. Answer all *nine* questions.

Say true or false :

- 13 Pectic substances are derivatives of carbohydrates.
- 14 Bitterness in citrus fruits is due to colour compounds.
- 15 Enzymatic browning can be prevented by cutting off oxygen.
- 16 Addition of sugar to cut fruit prevents browning.

Name the following :

- 17 Write the name of enzyme responsible for browning.
- 18 Name the pigment present in apple.
- 19 What is the other name of vitamin K ?
- 20 Name the essential component to sustain life.
- 21 Name few sources of glucose and fructose.

(9 × 1 = 9 weightage)

III. Short Essay or Paragraph questions. Answer any *five* questions from seven :

- 22 What is caramelization ?
- 23 What is enzymatic browning ?
- 24 Describe Maillard reaction.
- 25 What is retrogradation.
- 26 Name a few gums used in the food industry.
- 27 Classify types of lipids.
- 28 Give a few dietary sources of fats and oils.

(5 × 2 = 10 weightage)

IV. Essay questions. Answer any *two* questions from three :

- 29 What are emulsifying agents ?
- 30 What is malnutrition ?
- 31 What are the functions of different vitamins ?

(2 × 4 = 8 weightage)