

05/06/23 A/W

(6 pages)

Reg. No. :

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B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2023

Third Semester

Zoology

Skill Based Core — NUTRITION AND DIETETICS

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which one of the following is used as long term energy storage by animals?
 - (a) fat
 - (b) carbohydrate
 - (c) protein
 - (d) vitamins

2. The dried pulses are the good sources of many _____ and minerals but deficient in vitamins A, D, B₁₂ and C.
- (a) fat
 - (b) carbohydrate
 - (c) vitamin-B complex
 - (d) aminoacids
3. Bran of _____ rice has more oil.
- (a) roasted (b) raw
 - (c) parboiled (d) sieved
4. Glycolysis is the breakdown (lysis) of glucose to _____ under aerobic conditions and to lactic acid under anaerobic conditions.
- (a) ketoglutaric acid
 - (b) succinic acid
 - (c) acetic acid
 - (d) pyruvic acid
5. The bomb calorimeter is used to determine the _____ of solid and liquid fuels.
- (a) concentration (b) calorific value
 - (c) nutritive value (d) density

6. Prolonged _____ lowers the metabolic rate.
- (a) under nutrition
 - (b) over nutrition
 - (c) normal nutrition
 - (d) sleep
7. Find out which one is an increased nutrient required during lactation
- (a) Iodine
 - (b) vitamin A rich foods
 - (c) fats
 - (d) cholesterol
8. Kwashiorkor is a type of nutrition deficiency disorder, which results from a severe _____ deficiency.
- (a) fat
 - (b) carbohydrate
 - (c) protein
 - (d) nucleic acids
9. Which one is called good cholesterol transporter to prevent arteriosclerosis?
- (a) LDL
 - (b) HDL
 - (c) VLDL
 - (d) MDL
10. _____ (presence of glucose in urine) may be the first indicator of diabetes mellitus.
- (a) proteinuria
 - (b) glycosuria
 - (c) albuminuria
 - (d) hematuria

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Highlight the important role of carbohydrates.

Or

- (b) Specify the nutritive values of cereals and pulses.

12. (a) List out the main principles of parboiling of rice.

Or

- (b) Non-vegetarian Vs Vegetarian diet : which one is better and why?

13. (a) How bomb calorimeter is constructed and add notes on its uses?

Or

- (b) List out factors that affecting basal metabolic rate.

14. (a) How to design nutritional requirements for pregnant women?

Or

(b) Summarize causes, and preventive measures for obesity.

15. (a) Write an account on therapeutic diet.

Or

(b) Bring out causes and preventive measures of atherosclerosis.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Summarize the different functions of fat soluble vitamins.

Or

(b) Tabulate biochemical importance of water soluble vitamins.

17. (a) Discuss about advantages of parboiling of rice.

Or

(b) Write an account on metabolism of lipids.

18. (a) How to determine the BMR by using Benedict's method?

Or

(b) Define BMR and State significance of BMR.

19. (a) Differentiate between Kwashiorkor and Marasmus.

Or

(b) How do design nutritional requirements for lactating women?

20. (a) Bring out causes and preventive measures of diabetes mellitus.

Or

(b) Bring out causes and preventive measures of constipation.
