

GURUDAS COLLEGE

B. Sc. SEMESTER V (Honours) Examination, 2021

Online Internal Assessment

Subject: BOTA

Subject Category: Honours

Course: BOT-A-CC-5-12

Course Name: BIOCHEMISTRY

Date of Examination: 3rd January, 2022

Full Marks – 10

Time – 30 minutes

All questions carry equal marks

Answer the following multiple-choice questions (any 5):

5X2=10

Q1). In what case, the transporters are known as antiporters?

- a) When 2 substances move in same direction
- b) When 2 move in same direction and 1 in opposite
- c) When 3 move in same direction
- d) When 2 substances move in opposite direction

Q2). Which type of movement occurs when Na/K pump is used?

- a) Na ions moves out of the cell and K⁺ move in
- b) K⁺ ion moves out of cell and Na ion move in
- c) both Na and K⁺ ions move inside the cell
- d) both Na and K⁺ move out of the cell

Q3). Non-cyclic photophosphorylation results in the production of

- a) NADH

- b) NADPH
- c) ATP
- d) ATP and NADPH

Q4). What are the favourable conditions for cyclic photophosphorylation?

- a) Aerobic and optimum light
- b) Aerobic condition only
- c) Aerobic and low light intensity
- d) Anaerobic and low light intensity

Q5). Holoenzyme is made of

- a) Apoenzyme and Zymogen
- b) Apoenzyme and Co-enzyme
- c) Co-enzyme and Prosthetic group
- d) Prosthetic group and Co-factor

Q6). Which is a characteristic of all the fatty acid components in this lipid?

- a) They all contain an unbranched carbon chain.
- b) They all contain unconjugated cis double bonds.
- c) They all are joined to glycerol through an ester bond.
- d) They all are hydrophilic because they contain oxygen.

Q7). Which of the following is a reducing sugar?

- a) Dihydroxyacetone
- b) Erythrulose
- c) Glucose
- d) All of the above

Q8). Which of the following statements is true about the (primary) 1° structure of proteins?

- a) The helical structure of the protein
- b) Subunit structure of the protein
- c) Three-dimensional structure of the protein
- d) The sequence of amino acids joined by a peptide bond

Instructions for submission of answer scripts

1. Write the front page/top sheet as per instruction.
2. Scan the pages in sequence and make a single PDF file.
3. Rename file as per instruction.
4. Email the PDF file within the stipulated time to the following Email IDs:

1. gdexamhons@gmail.com
2. botahons2020@gmail.com
3. botasem2gdc@gmail.com