

# KANYASHREE UNIVERSITY

M. Sc. 1<sup>st</sup> SEMESTER EXAMINATION 2022

Subject- Food and Nutrition

Course- CC -3

## Applied Physiology

Full Marks- 40

Time- 2.00 Hours

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### **Group A**

[Answer **any four** questions]

(5×4=20)

1. What do you mean by active transport? How Na<sup>+</sup> is transported across the cell membrane? (2+3)
2. Write down the electron micrographic structure of mitochondria along with its diagram. (5)
3. What is GIP? Write its function. (1+4)
4. What do you mean by Immunodeficiency? Write down some immunodeficiency disorder. (3+2)
5. How do steroid hormones act after release from their site of origin? (5)
6. Which cell secrete gastrin? Mention its function in human body. (1+4)
7. Classify antibody along with diagram. Write function of any one isotype.(3+2)

### **Group-B**

[Answer **any two** questions]

(10×2=20)

8. What are second messengers? Write any one cell signaling pathway which has prominent second messenger action in it. How phosphorylation controls cell signaling pathway, write with suitable example. (2+5+3)
  9. Write any two type of antigen-antibody reaction. Mention some implications of antigen-antibody interaction. (3+3+4)
  10. What is G<sub>0</sub> phase? What are Cdks ? List the factors controlling cell cycle. (2+2+6)
  11. How fat is absorbed in human body? Write down the mechanism of bile formation. Mention the role of different endopeptidases in protein digestion. (3+4+3)
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