

2022

M.Sc.

2nd Semester Examination

HUMAN PHYSIOLOGY

PAPER—PHY-204

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

UNIT-204.1 LIFE STYLE AND HEALTH

Group-A

Answer any two questions.

2×2

1. What are the modifiable and non-modifiable risk factors of cardiovascular diseases? 1+1

2. Mention the benefit of healthy community design. 2
3. Mention two major routes of transmission of communicable diseases with examples. 1+1
4. Define isolation and quarantine. 1+1

Group-B

Answer any *two* questions. 2×4

5. What is cancer cell? Classify the types and nature of cancer cells. 1+3
6. State the altered metabolism of carbohydrate, protein and fat in type II diabetes mellitus.
7. What are fomites? Explain their role in disease transmission. 2+2
8. Define the term 'case fatality rate'. What is incubation period of a disease? 2+2

Group-C

Answer any *one* question. 1×8

9. Write down the role of several factors responsible for cancer development. Mention the traits of cancer cells. Describe the cellular mechanism of insulin-dependent type-II diabetes. 2+2+4

10. Give a brief account of epidemiological triad along with description. Cite an example of diseases spread by droplet infection. What is convalescent carrier?

4+2+2

UNIT-204.2 LIFESTYLE MANAGEMENT AND HEALTH PROMOTION

Group-A

Answer any *two* questions. 2×2

1. State the principle of injury prevention. 2
2. What is meant by market-driven fortification? 2
3. Mention the factors in affected population that promote communicable diseases. 2
4. What is baroreceptor and mention its function? 1+1

Group-B

Answer any *two* questions. 2×4

5. Mention the normal amount of blood volume. "Anti-diuretic hormone (ADH) plays an important role to control the blood volume" – Explain in brief.

1+3

6. What is targetted group fortification? Give example. 2+1+1
7. What is surveillance? Mention the determinants of prevention of communicable diseases. 1+3
8. Define accident. State the principles of accident prevention. 1+3

Group-C

Answer any *one* question. 1×8

9. Mention the common factors that affect blood pressure. Draw and identify the histological organization of blood vessels. How could you calculate mean arterial blood pressure (MABP)? Describe the role of medulla oblongata on blood pressure regulation. 1+2+1+4
10. Write down the difference between food allergy and food intolerance with suitable examples. State the types and causes of repetitive motion injuries. 4+(2+2)

[*Internal Assessment - 10 Marks*]
