

**2018**

**M.Sc.**

**2nd Semester Examination**

**HUMAN PHYSIOLOGY**

**PAPER—PHY-204**

**Subject Code—30**

*Full Marks : 40*

*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.*

**(CBCS)**

**( Unit—01 )**

Answer *all* questions from the following :

1. (a) Define psychosocial health.  
(b) What do you understand by prodromal and convalescent periods of diseases ?

*(Turn Over)*

- (c) What is the difference between vector-borne and vehicle-borne diseases ? 1+2+2

*Or*

- (a) What is the difference between isolation and quarantine ?

- (b) Discuss the different lifestyle factors affecting health.

$2\frac{1}{2}+2\frac{1}{2}$

2. (a) Define malnutrition according to WHO.

- (b) How are lifestyle factors directly related to the development of diseases ?

- (c) Write the significance of stunting. 1+2+2

*Or*

- (a) State critically the nature of physical activity pyramid as a part of physical education.

- (b) Write a note on perceptual motor programmes.

3+2

3. (a) What are the characteristics of non-communicable diseases (NCDS) ?
- (b) Mention metabolic risk factors of NCDS.
- (c) Describe the global burden and risk factors of cardiovascular diseases.  $1\frac{1}{2}+1+(1+1\frac{1}{2})$

Or

- (a) Briefly mention how cancer can be characterized.
- (b) What are 'Angiogenesis' and 'Metastasis' ?
- (c) Discuss the risk factors for cancer.  $2+(1+1)+1$
4. (a) What is meant by communicable disease ? Name some agents responsible for it.
- (b) What are meant by vertical and catrogenic transmission ?
- (c) What is fomite ?  $(1+1)+(1+1)+1$

Or

- (a) What is outbreak ?
- (b) Give a brief description of agent and environment in epidemiological triad.  $1+(2+2)$

**( Unit—02 )**

Answer all questions :

1. (a) Discuss the importance of first aid and emergency care in health promotion.
- (b) Define the types of accidents that can occur at workplace. 2½+2½

*Or*

- (a) Discuss the various physiological effects of warm-up.
- (b) Describe any two warm up techniques.
- (c) What is kinesiology tape ? 2+2+1
2. (a) Define body mass index.
- (b) Write the significance of skinfold measurement during assessment of physical fitness.
- (c) What do you understand by muscular strength ? 1+3+1

*Or*

- (a) Describe the histological structures of an artery with a suitable diagram.

(b) How does yoga influence the hand grip strength ?

2+3

3. (a) What do you understand by minimum Fortification Level (mFL) ?

(b) Discuss the advantages and limitations of food fortification.

(c) What do you understand by market-driven fortification ?

1+2+2

Or

(a) Discuss the factors affecting meal planning.

(b) Mention the principles of meal planning for a pregnant woman.

(c) What do you understand by food intolerance ?

2+2+1

4. (a) Name the factors associated with the risk of communicable diseases.

(b) Mention the determinants of 'Prevention'.

(c) What is surveillance ?

2+2+1

Or

- (a) What are the major steps to be taken in the management of an outbreak of communicable diseases.
- (b) Write briefly on 'Detection of outbreak'.
- (c) Write down on prevention and control of 'Malaria'.

3+2

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