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3 (Sem-6/CBCS) GGY HE 1/2

2023

GEOGRAPHY

(Honours Elective)

Answer the Questions from any one Option.

OPTION-A

(Geography of Health)

Paper : GGY-HE-6016

OPTION-B

(Hydrology)

Paper : GGY-HE-6026

Full Marks : 60

Time : Three hours

**The figures in the margin indicate
full marks for the questions.**

Contd.

OPTION-A

(Geography of Health)

Paper : GGY-HE-6016

1. Choose the correct answer from the following : $1 \times 7 = 7$

- (i) Congenial disease is—
- (a) disease present at birth
 - (b) deficiency disease
 - (c) spread from one individual to another
 - (d) occurred during life time
- (ii) Which of the following is a disease caused by a virus ?
- (a) Cholera
 - (b) Tuberculosis
 - (c) Leprosy
 - (d) Chickenpox
- (iii) World Malaria day is observed on—
- (a) 25th April
 - (b) 5th June
 - (c) 17th September
 - (d) 17th January

- (iv) The 'Corona' in coronavirus means—
- (a) sun
 - (b) strong
 - (c) bat
 - (d) crown
- (v) In India, when did the second phase of COVID-19 vaccination start ?
- (a) December, 2020
 - (b) January, 2021
 - (c) February, 2021
 - (d) March, 2021
- (vi) What is meant by 'generic drugs' ?
- (a) Imitation products of medicines that have the same active ingredients
 - (b) Medicines that are not effective
 - (c) Counterfeit medicines
 - (d) All of the above
- (vii) Which among the following is not a non-communicable disease ?
- (a) Ischaemic heart disease
 - (b) Alzheimer disease
 - (c) Diarrhoeal disease
 - (d) Kidney disease

2. Answer the following questions in very short :

2×4=8

- (i) What is meant by Germ theory ?
- (ii) What does herd immunity mean ?
- (iii) What is primary immunization ?
- (iv) Differentiate between HIV and AIDS.

3. Write short notes on **any three** of the following :

5×3=15

- (i) Hippocratic oath
- (ii) Zoonotic disease
- (iii) Disease-causing organisms
- (iv) Japanese encephalitis
- (v) National Health Mission

4. Answer **any three** of the following questions :

10×3=30

- (i) Define disease and its types. Elucidate one of its types with a suitable example.

3+7=10

(ii) What is meant by the healthcare system ? What are the major components of healthcare system ?

2+8=10

(iii) How do local physical and socio-economic elements influence disease transmission in a region ?

(iv) What is WHO and its functions ? What are the *three* main goals of WHO ?

6+4=10

(v) What is disease diffusion in geography ? Explain each type with a suitable diagram.

3+7=10

(vi) Under the purview of the spatial approach to the study of health, what are the important factors that need to be mentioned ?

OPTION-B

(Hydrology)

Paper : GGY-HE-6026

1. Answer the following questions : $1 \times 7 = 7$
- (a) What is a drainage basin ?
 - (b) What is the unit of water discharge ?
 - (c) Define hydrograph.
 - (d) What is drainage density ?
 - (e) What is isovel ?
 - (f) Define hydraulic radius.
 - (g) What is aquifer ?
2. Answer the following questions very briefly : $2 \times 4 = 8$
- (a) Define river regimes.
 - (b) How do you measure water discharge in a river ?
 - (c) What is lag time in a hydrograph ?
 - (d) Distinguish between suspended load and bed load in a river.

3. Answer **any three** of the following questions in brief : $5 \times 3 = 15$

- (a) Explain in brief the importance of system concept in fluvial geomorphology.
- (b) Discuss briefly the controls in the drainage basin on the storm hydrograph.
- (c) How do you relate drainage density and discharge, stream order and the number of stream segments under extremes of rainfall? Explain with suitable diagrams.
- (d) Discuss briefly the types of flow in a river.
- (e) Explain briefly the movement of water in an aquifer.

4. Discuss in detail the meaning and scope of hydrology. 10

Or

Explain the major elements of the drainage basin system.

5. Discuss in detail the concept of surface runoff and its relationship with soil, vegetation and ground slope. 10

Or

What do you mean by groundwater recharge? Explain its importance on channel morphology. 2+8=10

6. Discuss in detail the hydrological cycle with suitable diagrams. 10

Or

Define flood. What are the different types of flood? Discuss with special reference to Brahmaputra flood. 2+3+5=10