

2025

M.Sc. 1st Semester Examination

ECONOMICS

Paper : ECOE405A0

(Health Economics and Health Informatics)

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

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

Group - A

Answer any *two* questions : $2 \times 2 = 4$

1. Define Health Economics. [CO1]
2. Distinguish between health care and healthcare. [CO1]
3. Mention a few problems associated with health care
financing. [CO2]
4. Name some determinants of health. [CO2]

Answer any *two* questions : $4 \times 2 = 8$

5. Discuss a few practical barriers to health quality. [CO3]

P.T.O.

(2)

6. Why is preventive care preferable to curative care?
Explain. [CO3]
7. What is the difference between horizontal and vertical equity? [CO1]
8. Mention some solutions to achieving equity in health care. [CO3]

Answer any *one* question : 8×1=8

9. Does publicly or privately funded healthcare lead to greater quality and efficiencies in personal health care?
Explain. [CO1]
10. Discuss the status of Maternal Health in different districts of West Bengal during 2015-16 and 2019-21. Briefly discuss how maternal health can be improved. 5+3 [CO4]

Group - B

Answer any *two* questions : 2×2=4

11. Define the concept of "health". [CO1]
12. What do you mean by disability? [CO1]
13. Distinguish between "Point prevalence" and "Period prevalence". [CO1]
14. Interpret the meaning of Risk Ratio = 1 and Risk Ratio > 1. [CO1]

(3)

Answer any *two* questions : $4 \times 2 = 8$

15. Write the basic difference between mortality and morbidity. Briefly discuss why the concept of morbidity is fundamentally important in public health. 2+2 [CO1]
16. Consider the following hypothetical study on Disease X :

On January 1, 2025, the total population in a country was 1000, and 50 people already had Disease X at the start of the year. During the year 2025, 20 of the healthy people develop Disease X. The outcome of Disease X is as follows :

- 10 people who had the disease died during the year.
- 5 people who had the disease were cured during the year.

Calculate the burden and risk of Disease X. [CO2]

17. A woman who had moderate depression since she was 20 commits suicide at age 50. Calculate the "Disability Adjusted Life Years" for her, considering disability weight for a moderate depressive episode is 0.350. [CO2]
18. Briefly discuss the concept of "Health Informatics". [CO5]

P.T.O.

(4)

Answer any *one* question : $8 \times 1 = 8$

19. Consider a hypothetical foodborne illness outbreak situation. Discuss how the concept of disease distribution and determinants is applied for disease investigation.

[CO3]

20. Write a short note on the "Public Health Information Network".

[CO5]

Internal Assessment - 10 marks
