BACHELOR OF ARTS EXAMINATION, 2023

(3rd Year, 1st Semester, Supplementary)

ECONOMICS

ECONOMICS OF HEALTH AND EDUCATION

Time : Two Hours   Full Marks : 30

Answer any three from the following

1. Define cohort life expectancy. Show how cohort life expectancy is derived from age- and time-specific annual probability of death. Why is cohort life expectancy greater than 'period life expectancy'? Distinguish between prevalence and incidence of disease.

$$2+3+3+2=10$$

2. (a) Discuss the relation between health and development.

   (b) Describe the construction of Education Lorenz Curve based on education attainment data. Why is the curve truncated along the horizontal axis?

$$4+(4+2)=10$$

3. (a) Explain the steps in the computation of Human Development Index (HDI).

   (b) Calculate the Inequality-adjusted Human Development Index (IHDI) for a hypothetical country on the basis of the following table:

Indicator	Value	Dimension Index	Inequality Measure
Life expectancy (years)	69.8	0.783	0.168
Mean years of schooling	5.8	0.493	-
Expected years of schooling	12.9	0.714	
Education Index	-	0.577	0.204
Log of GNI	8.33	0.550	
GNI (PPP dollar)	4154	0.046	0.177

$$6+4=10$$

4. Examine the role of education as a screening device.

$$10$$

5. Differentiate between private benefit and social benefit of education. Do you think education is a pure public good? Justify your answer.

$$4+6=10$$