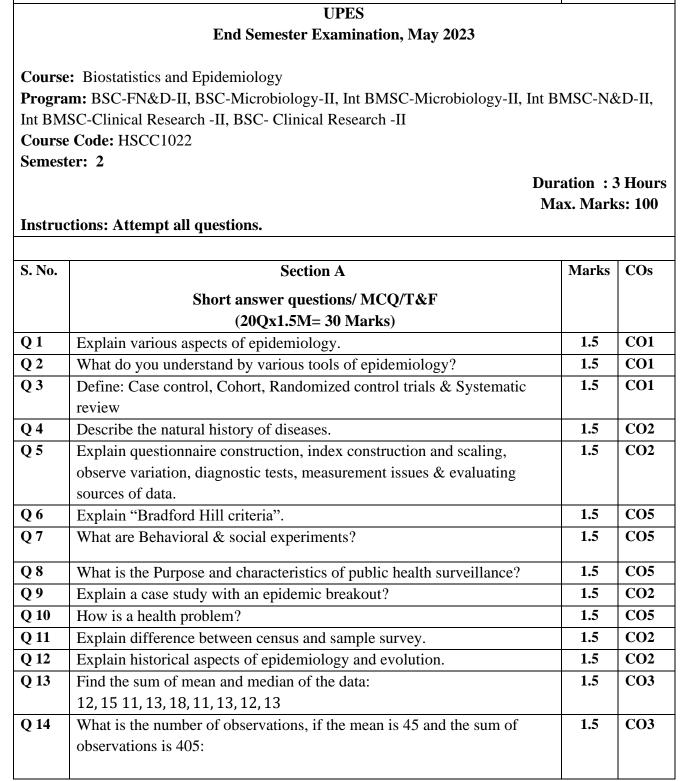
Name:

**Enrolment No:** 





	a. 6		
	b. 11		
	c. 9		
	d. 15		
Q 15	Cumulative frequency curve is also known as:	1.5	CO3
Q 16	Find the range and coefficient of range if largest item is 48 and smallest	1.5	CO3
	item is 24.		
Q 17	Calculate the coefficient of variation if the standard deviation and mean	1.5	CO3
	are 21.2 and 36.6 respectively.		
Q 18	Discuss the various types of correlation.	1.5	CO3
Q 19	Define the following:	1.5	CO4
	a. Probability		
	b. Discrete Distribution		
	c. Continuous Distribution		
	d. Sampling		
Q 20	Assign the ranks to the following:	1.5	CO4
	x         35         40         25         55         85         90         65         55         45         50		
	y 100 100 110 140 150 130 100 120 140 110		
	Section B (4Qx5M=20 Marks)		
Q 1	Explain in detail the Epidemiologic Triangle.		
02		5	CO2
Q 2	Explain the various aspects of "web of causation".	5	CO2 CO5
Q 2 Q 3			
	Explain the various aspects of "web of causation".	5	CO5
	Explain the various aspects of "web of causation".Apply method of least squares to find out regression line $y$ on $x$ andregression coefficient $b_{yx}$ by using the values below:	5	CO5
	Explain the various aspects of "web of causation".Apply method of least squares to find out regression line y on x and regression coefficient $b_{yx}$ by using the values below: $n = 7, \sum x = 113, \sum y$	5	CO5
	Explain the various aspects of "web of causation".Apply method of least squares to find out regression line y on x and regression coefficient $b_{yx}$ by using the values below: $n = 7, \sum x = 113, \sum y$	5	CO5
Q 3	Explain the various aspects of "web of causation".Apply method of least squares to find out regression line y on x and regression coefficient $b_{yx}$ by using the values below: $n = 7, \sum x = 113, \sum y$ $= 182, \sum x^2 = 1983, \sum y^2 = 151, \sum xy = 3186$	5	CO5 CO3
	Explain the various aspects of "web of causation".Apply method of least squares to find out regression line y on x and regression coefficient $b_{yx}$ by using the values below: $n = 7, \sum x = 113, \sum y$ $= 182, \sum x^2 = 1983, \sum y^2 = 151, \sum xy = 3186$ Apply shortcut method to find the standard deviation of a frequency	5	CO5
Q 3	Explain the various aspects of "web of causation".Apply method of least squares to find out regression line y on x and regression coefficient $b_{yx}$ by using the values below: $n = 7, \sum x = 113, \sum y$ $= 182, \sum x^2 = 1983, \sum y^2 = 151, \sum xy = 3186$ Apply shortcut method to find the standard deviation of a frequency distribution by using the values below:	5	CO5 CO3
Q 3	Explain the various aspects of "web of causation".Apply method of least squares to find out regression line y on x and regression coefficient $b_{yx}$ by using the values below: $n = 7, \sum x = 113, \sum y$ $= 182, \sum x^2 = 1983, \sum y^2 = 151, \sum xy = 3186$ Apply shortcut method to find the standard deviation of a frequency	5	CO5 CO3
Q 3	Explain the various aspects of "web of causation".Apply method of least squares to find out regression line y on x and regression coefficient $b_{yx}$ by using the values below: $n = 7, \sum x = 113, \sum y$ $= 182, \sum x^2 = 1983, \sum y^2 = 151, \sum xy = 3186$ Apply shortcut method to find the standard deviation of a frequency distribution by using the values below: $A = 30, N = 60, \sum fd = 50, \sum fd^2 = 10,900$	5	CO5 CO3
Q 3	Explain the various aspects of "web of causation". Apply method of least squares to find out regression line <i>y</i> on <i>x</i> and regression coefficient $b_{yx}$ by using the values below: $n = 7, \sum x = 113, \sum y$ $= 182, \sum x^2 = 1983, \sum y^2 = 151, \sum xy = 3186$ Apply shortcut method to find the standard deviation of a frequency distribution by using the values below: $A = 30, N = 60, \sum fd = 50, \sum fd^2 = 10,900$ Section C	5	CO5 CO3

Q 2	The following table gives the figures of monthly drop in acidity level and chlorine concentration in a lake water. Apply two-way classification of analysis of variance and interpret your results.						15	CO4
	Chlorine Acidity level							
	Concentration Low	Low         Media           22         19           11         11           9         10           42         40	Medium 19	m High 9 8 6 23	Very High 7 4 4 15	Total           57           34           29           120		
	High Total		10					
			40					
			<b>Tabulated Values</b> $F_{0.05}$ at (2, 6) d. f is 5.14					
	<i>F</i> <sub>0.05</sub> <i>at</i> (3, 6) <i>d</i> . <i>f is</i> 4.76 <b>Section D</b>							
					)			
Q 1	<ul> <li>(A) . A study assesses the association between talking on a cellular phone while driving and traffic accidents. It finds that people with cellular phones have accidents at a rate of 11.1 per 10,000 miles traveled. People who do not have cellular phones have accidents at the rate of 8.6 per 10,000 miles. Calculate the rate difference associated with cellular phone use. Then, in plain terms, interpret your results.</li> <li>(B) A study starts with 4,875 health people. (Think of these as the 5000 from problem 2 minus the 125 prevalent cases.) Over the next 2 years, 75 develop the disease. What is the incidence rate of disease over the study period? Show all work.</li> </ul>							C02
Q 2	Out of 800 famil have: (i) 1 boy and (ii) Only girl (iii) either 1 c (iv) at least of Assume equal pro-	d 2 girls s or 2 boys ne boy			y would yo	u expect to	10	CO4