BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP2023)

CLASS: IMSc **SEMESTER : IV**
BRANCH:QEDS **SESSION : SP2023**

SUBJECT: ED219 ECONOMIC DEVELOPMENT AND DEMOGRAPHY

TIME: 02 Hours **FULL MARKS: 25**

INSTRUCTIONS:
1. The question paper contains 5 questions each of 5 marks and total 25 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
***4*. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates**

			CO	BL
Q.1(a)	Describe poverty.	[2]	CO1	
Q.1(b)	Explain why poverty line in India is estimated using consumption expenditure method.	[3]	CO1	
Q.2(a)	Describe the three dimensions of Gender Development Index and explain its calculation.	[2]	CO1	
Q.2(b)	A country's "Human Development Index" is 0.434. Its Life Expectancy Index is 0.578 and Income Index is 0.323. Calculate the Education Index for the country.	[3]	CO1	
Q.3(a)	Explain the Trade-offs among the three main objectives of Sustainable Development.	[2]	CO1	
Q.3(b)	Derive the Harrod-Domar model of economic growth (incorporating capital depreciation).	[3]	CO2	
Q.4(a)	Using the Harrod-Domar model, explain how foreign investment can lead to higher growth rates for a developing economy.	[2]	CO2	
Q.4(b)	Derive the equation of motion of capital for Solow model (incorporating capital depreciation).	[3]	CO2	
Q.5(a)	Explain the Golden rule level of capital in Solow model.	[2]	CO2	
Q.5(b)	In India, an increase in capital of Rs. 5.13 lakh crore is required for an increase in output of Rs. 2.32 lakh crore. How much would the rate of savings have to be to achieve a GDP growth rate of 12% in Harrod-Domar model? Take depreciation rate of 3%.	[3]	CO2	

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