

# UNIVERSITY OF GOUR BANGLA

FYUGP/4th Sem/Pr/25(NEP)

2025

Four Year Under Graduate Programme (FYUGP)

4th Semester Examination (Under NEP)  
(Session 2023-2024)

**GEOGRAPHY (Major)**

Paper Code : GEOMJ MC-07B

(Biogeography)

(Practical)

Set - I

Full Marks : 15

Time : Two Hours

*The figures in the margin indicate full marks.*

Answer *all* the questions.

1. (a) A marine biodiversity survey (2024) in the Great Barrier Reef recorded the following fish species :

Species	Number of Individuals
Clownfish ( <i>Amphiprion ocellaris</i> )	142
Parrotfish ( <i>Scarus rivulatus</i> )	98
Butterflyfish ( <i>Chaetodon lunula</i> )	76
Surgeonfish ( <i>Paracanthurus hepatus</i> )	134
Angelfish ( <i>Pomacanthus imperator</i> )	89
Wrasse ( <i>Thalassoma bifasciatum</i> )	61

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Calculate Simpson's Evenness Index (E). 3

(b) Calculate RLI from the given table for both the years. 4

Bird Species in India (IUCN Category)	Number of Species	
	2004	2022
Least Concern (LC)	6,000	5,800
Near Threatened (NT)	1,200	1,300
Vulnerable (VU)	1,000	1,100
Endangered (EN)	800	900
Critically Endangered (CR)	600	700
Extinct/Extinct in the Wild (EX/EW)	200	200

2. Calculate Ecological Footprint for Saudi Arabia.  
Interpret the result. 4+1 <sup>3+2</sup>

Land use Category	Consumption (per capita)	World Average Yield (per ha)	Area Required (ha per capita)	Equivalence Factor
Cropland	159 kg cereals	4,300 kg/ha	0.037	2.51
Grazing Land	44.6 kg meat	1,000 kg/ha	0.045	0.46
Fishing Grounds	13.5 kg fish	50 kg/ha	0.27	0.54
Forest Land (Carbon)	18,730 kg CO <sub>2</sub>	2,500 kg ha	7.492	1.29
Built-up Land	0.0128 ha	—	0.0128	2.51

3. Laboratory Notebook and Viva-voce. 1.5+1.5

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**GEOGRAPHY (Major)**

Paper Code : GEOMJ MC-06B

(Population Geography)

(Practical)

Set - I

Full Marks : 15

Time : Two Hours

*The figures in the margin indicate full marks.*

Answer *all* the questions.

1. The given data are age and sex structure of Niger. Prepare an age-sex pyramid diagram with the help of the following data.

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Age	Male	Female
0-4	2428334	2354535
5-9	2117101	2048057
10-14	1856871	1792480
15-19	1560940	1505457
20-24	1263698	1216876
25-29	996365	956976
30-34	777899	745221

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Age	Male	Female
35-39	628459	600097
40-44	524587	497973
45-49	423177	403247
50-54	336793	327501
55-59	271737	268946
60-64	212116	215640
65-69	152607	160444
70-74	98845	107971
75-79	49907	66104
80-84	20257	30230
85-89	5016	8134
90-94	592	1128
95-99	23	61
100+	0	0
<b>Total</b>	<b>13725324</b>	<b>13307098</b>

2. (a) Calculate Total Fertility Rate (TER) from the following Data and comment on it. 4+1

Age group	No female population	Live birth
15-19	56544053	6,38,948
20-24	53839529	62,07,698
25-29	50069757	72,30,073
30-34	43934277	36,28,971
35-39	42221303	14,90,412
40-44	34892726	4,15,223
45-49	30180213	1,47,883

( 3 )

(b) Total population of India in 2001 and 2011 were 1,028,737,436 and 1,210,193,422 respectively. Calculate the estimate population of India in 2026 using linear extrapolation method. 2

3. Laboratory Notebook and Viva-voce. 1.5+1.5

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