

**Geography (P.G.)**

**[CBCS]**

**M.Sc. Second Semester End Examination-2024**

**(Regular & Supplementary Paper)**

**PAPER-GEO-205**

**[Practical]**

**Full Marks: 25**

**Time: 02 Hrs**

*The figures in the right hand margin indicate full marks*

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

*Illustrate the answers wherever necessary*

**Unit-21**

**[Computer Application and Numerical Data Processing]**

1. Answer the following questions. 5+5=10
  - a) What are the primary differences between RAM and ROM in terms of functionality and usage? Differentiate between software and application software, providing examples of each. 3+2
  - b) Convert each of the following binary numbers to octal and hexadecimal formats.  
1111111, 101011001, 11100101, 00110100, 1110110 5
  
2. What is the correlation between population density and GDP per capita in the given dataset, and what does it suggest about the relationship between the two variables? 5+2=7

(2)

Sl. No	Country	Precipitation Density (people / km <sup>2</sup> )	GDP per Capita (\$1000s)
1	Japan	347	40
2	Germany	233	55
3	Brazil	25	9
4	Nigeria	226	2
5	Australia	3	53
6	Egypt	102	3
7	Canada	4	48
8	South Korea	527	43
9	Mexico	66	10
10	Italy	206	43

3. What is the truth table for an AND gate? Calculate the output of an AND gate for inputs A=1 and B=0. 3
  
4. 4. Laboratory Note Book and Viva-Voce. 5

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