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NATIONAL OPEN UNIVERSITY OF NIGERIA

91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi-Abuja

FACULTY OF MANAGEMENT SCIENCES

2023_1 POP EXAMINATION

Course Code: BUS729

Time Allowed: 2 Hours

Course Title: Business Mathematics

Credit Unit: 2

Instructions: 1. Indicate your Matriculation Number clearly

- 2. Attempt Question 1 and any other two (2) questions
- 3. Question 1 is compulsory and carries 30 marks while the other 2 questions carry 20marks each
- 4. Present all your points in coherent and orderly manner

QUESTIONS.

- 1. Solve for X and Y in the system of equations:
 - 3X 4Y = 13 (1) 3Y + 2X = 3 (2)

[15 marks]

b) Find $\int e x/3 dx$ let $u = \underline{x, du} = \underline{dx}$

3 3

c) in a Venn diagram represents

[7.5 marks]

[7.5 marks]

 $A \subset B$ and, $A \neq B$,

2. In the Venn diagram below, shade А Union B, that AUB is, B (c) (a) (b)

[10 marks]

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(a) $A \cup B$, (b) $A \cup C$, (c) $B \cup C$, (d) $B \cup B$ [10 marks]

3. A number of families of a particular type were measured by the number of children they have, given the following frequency distribution:

Number of children: 0 1 2 3 4 5 or more

Number of families: 12 28 22 8 2 2

Use this information to calculate the (relative frequency) probability that another family of this type chosen at random will have:

(a) 2 children (b) 3 or more children (c) less than 2 children [20 marks]

- 4. State in words and then write in tabular form
 - A = {x} | x² = 4²}
 B = {x} | x 2 = 5} 17
 C = {x} | x is positive, x is negative}
 D = {x} | x is a letter in the word —correct||} [15 marks]
 - b) Find $\int x\cos x^2 dx$ [5 marks]
- 5. Discuss extensively the term sinking fund [10 marks]

b) outline four (4) types /ways in which sinking fund operate [10 marks]