	K17U 0989
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	II Semester B.A. Degree (C.B.C.S.S. – Reg./Supple./Imp.) Examination, May 2017
1	COMPLEMENTARY COURSE IN ECONOMICS 2C02 ECO: Mathematics for Economic Analysis – II (2014 Admn. Onwards)
	Time: 3 Hours Max. Marks: 40
	PART-A
	Answer all the 4 questions. Each carries 1 mark.
	1) A matrix in which every element is zero, is said to be Zero Method
	2. The general value and particular value of integral differ only by
	2 X3 - 1 X)
	3.) Rank of the matrix $\begin{vmatrix} 2 & 1 \\ 1 & 3 \end{vmatrix}$ is $= 2$ $= 6 - 1 = 5$ // then the pconk = 3
	4 of the determinant is the number of rows or columns of the determinant. (1×4=4)
	PART – B
	Answer any 7 questions. Each carries 2 marks.
	5, What is Consumer Surplus?
	6 What is minor of an element of a matrix ?
	7. Show that $\begin{vmatrix} 4 & 6 \\ 2 & 3 \end{vmatrix}$ is singular. $\begin{vmatrix} h \times 3 - 6 \times 2 \\ -12 - 12 \\ -9/1 \end{vmatrix}$

P.T.O.



8.
$$\int \frac{\sqrt{x}+1}{\sqrt{x}} dx ?$$

- 9. Explain the concepts of marginal revenue, marginal cost, total revenue and total cost.
- 10. What is Eigen value?
- 11. Are the following two determinants equal, why?

12. Given
$$A = \begin{bmatrix} 1 & 4 & 2 \\ 2 & 1 & -1 \\ 1 & 2 & 1 \end{bmatrix} B = \begin{bmatrix} 2 & 3 & 1 \\ 1 & 0 & 2 \\ 4 & 2 & 3 \end{bmatrix} C = \begin{bmatrix} 1 & 3 & 1 \\ 1 & 0 & 1 \\ 1 & 2 & 3 \end{bmatrix}$$
. Determine 2(6A – 2B – 2C).

- 12. Explain with an example equality of matrices.
- 14) What are rules of integration?

 $(2 \times 7 = 14)$

Answer any 4 questions. Each carries 3 marks.

- 15. Explain constraint optimization.
- 16. Explain substitution method of integration with an example.