	· Pachmana bhan. p
	· Malinay
Reg. No.: Shi sayan sach Jaia	Ansop. p M 8805
Reg. No.: Shivapaasad Peannd	Ala Q gman 1. Com
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Il Semester B.A. Degree ((CCSS - 2014 Admn Regular)
COMPLEMENTARY (ion, May 2015 COURSE IN ECONOMICS S for Economic Analysis – II
Time: 3 Hours	Max. Marks: 40
PA	RT - A
Answer all the 4 questions. Each carries	2x + y + 82 = 16 t 0 to xins and box 151
	The Knilleard
1. The general and particular values of ∫	(cate (0))
2. A determinant is a compact form show	ring a set of numbers arranged in
3. Adjoint of a square matrix is the	of the matrix.
4 is reverse process o	f differentiation. (4×1=4)
PAF	RT-B 0 0 f
Answer any 7 questions. Each carries 2 n	narks.
5. Define Eigen value.	11.00
mai giriai cost fullcilons in some produ	ucts is $1 + x + 6x^2$ where x is the output. cost is Rs. 100 when the output is zero.
7. Find x and y, if $[4 \ 5] + [x \ y] = [7 \ 3]$?	18. Integrate (x + 1) ⁵ .
8. Explain co-factor of a determinant with a	an example. We self-equip entitle low 3 . 9
9. What are the rules of Integration?	20. Explain the methods of Intelligible
	3× 968
	P.T.O.

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10. Are the following two determinants equal?

11. Total revenue of a firm is given by $R = 21x - x^2$ where x is the output. Find the output at which the total revenue is maximum.

- 13. Explain consumer surplus.
- 14. Distinguish Symmetric and Skew symmetric matrices .

 $(7 \times 2 = 14)$

PART-C

Answer any 4 questions. Each carries 3 marks.

- 16. Explain five properties of a determinant.
- 17. Explain constraint optimization.
- 18. Integrate $(x + 1)^5$.
- 19. Explain the properties of definite integrals.
- 20. Explain the methods of Integration.

Modrange in the selection of the (4×3=12)°

Define Elgen value

PART-D

Answer any 2 questions. Each carries 5 marks.

21. Integrate
$$\frac{x}{(x-1)(2x+1)}$$
.

- 22. The demand function is D = 250 50p and supply function is S = 25p + 25, calculate equilibrium price. Find consumer's and producer's surplus?
- 23. Solve the simultaneous equation using Crammer's rule:

$$5x - 6y + 4z = 15$$
, $7x + 4y - 3z = 19$, $2x + y + 6z = 46$.

24. Find the product of A =
$$\begin{vmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \\ -1 & 1 & 1 \end{vmatrix}$$
 and B = $\begin{vmatrix} 1 & 1 & 4 \\ -2 & 3 & 2 \\ 3 & 1 & 1 \end{vmatrix}$. (2x5=10)