## C-B-14-03-2015 - QMB-FYBBI-SEM II - 2 1/2 Hours - 75 Marks - 180 LAJFill in the blanks. Rate of interest b. Interest c. Amount d. None of these EMI stands for a. Equated monthly installment b. Equivalent monthly investment c. Earned monthly installment is a fund that is created to accumulate a specific sum of money at some definite date. Annuity b. Perpetuity Sinking fund None of these. Net national product b. Net national price c. Net network price d. None of these is the ratio of a country's expenditure on debt service payments to its total earnings of foreign exchange on exports of goods and services. a. Debt Service Ratio b. External Debt c. Trade balance d. None of these B] True or false. 1. A matrix containing only one row is called a row matrix. 2. A matrix whose numbers of rows are equal to the number of columns is called column matrix. 3. A + B=B+ A is called commutativity of addition. 4. A+0=A is called additive inverse. 5. The output of the non-monetized sector is one of the problems in estimating GDP.

e j want the following B 1)p[(1+i)<sup>n</sup>-1] 2) Pi (1-(1+i)-n)Compound interest 3)p X n X i EAST  $4)A^T+B^T$ (A+B) 5)P+1 Q2A| IFA-[3 -1], find SA and 1/S A. But  $A = \begin{bmatrix} 9 & 1 \\ 4 & 3 \end{bmatrix}$  and  $B = \begin{bmatrix} 1 & 5 \\ 7 & 13 \end{bmatrix}$ , find the matrix X such that 3A+5B+2X=0. (08) C] Solve the following linear programming problems graphically. Subject to x1+x2 530 X17X2512 x220, x220 Q.3.4 IDivide a profit of Rs. 25,828 between two partners in the ratio 4:7. B] Find 3 positive numbers in the ratio 3:5:2 such that the sum of their square is equal to 2432. (08) OR CJA particular sum of money amount to Rs. 5,13,216 in 2 yrs and Rs. 5,54,273.28 in 3 yrs. Find the sum 2.4.A) Find the accumulated value after 4 years of an immediate annuity of Rs. 20,000 p.a with interest B) If  $A=\begin{bmatrix} 1 & -2 \\ 4 & 3 \end{bmatrix}$  and  $B=\begin{bmatrix} 2 & 6 \\ 7 & -3 \end{bmatrix}$  then show that  $AB \neq BA$ . (08)OR

