20. The bookshop of a particular school has 10 dozen chemistry books, 8 dozen physics books, 10 dozen economics books. Their selling prices are Rs. 80, Rs. 60 and Rs. 40 each respectively. Find the total amount the bookshop will receive from selling all the books using matrix algebra. Assume X, Y, Z, W and P are matrices of order $2 \times n$, $3 \times k$, $2 \times p$, $n \times 3$ and $p \times k$, respectively. Choose the correct answer in Exercises 21 and 22.

Solution:

Let the selling prices of each book as a 3 x 1 matrix

Total amount received by selling all books

$$12[10 \ 8 \ 10] \begin{bmatrix} 80 \\ 60 \\ 40 \end{bmatrix} = \begin{bmatrix} 120 \ 96 \ 120 \end{bmatrix} \begin{bmatrix} 80 \\ 60 \\ 40 \end{bmatrix}$$

Total amount received by selling all the books is Rs. 20160.

21. The restriction on n, k and p so that PY + WY will be defined are:

(A)
$$k = 3, p = n$$

(D)
$$k = 2$$
, $p = 3$

Solution:

Option (A) is correct.

 $PY + WY = P(order of matrix, p \times k) \times Y(order of matrix, 3 \times k) + W(order of matrix, n \times k) Y(order of matrix, 3 \times k)$ Here k = 3 and p = n

22. If n = p, then the order of the matrix 7X - 5Z is: (A) $p \times 2$ (B) $2 \times n$ (C) $n \times 3$ (D) $p \times n$ Solution: Option (B) is correct.

The order of matrices X and Z are equal, since n = pThe order of 7X - 5Z is same as the order of X and Z. The order of 7X - 5Z is either $2 \times n$ or $2 \times p$. (Given n = p)

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