(2)

(b) If $A = \begin{bmatrix} 3 & 2 \\ 1 & 5 \end{bmatrix}$, then the value of $|A'|$ will be

   (i) -13

   (ii) 13

   (iii) -16

   (iv) 16

(c) The maximum number of linearly independent rows or columns of a matrix is called

   (i) norm of a matrix

   (ii) rank of a matrix

   (iii) idempotent matrix

   (iv) partitioned matrix

(d) Let A matrix is of dimension $m \times n$ and B matrix is of dimension $o \times p$. A and B are conformable for multiplication in the form AB if

   (i) $m = p$

   (ii) $n = o$

   (iii) $n = p$

   (iv) $m = o$

(e) Define producer's surplus.

(3)

(f) The elasticity of substitution of CES production function is

   (i) 0

   (ii) 1

   (iii) $\dfrac{1}{1+p}$

   (iv) $\dfrac{1}{1-p}$

(g) Given, $MC = 2aQ + b$. TC will be

   (i) $bQ + c$

   (ii) $aQ^2 + c$

   (iii) $aQ^2 + bQ$

   (iv) $aQ^2 + bQ + c$

(h) The function

$$f(x) = \frac{x^2 + 3x + 4}{x - 1}$$

is not continuous at

   (i) 1

   (ii) 2

   (iii) 3

   (iv) None of the above