GATE-2024

19. For the Boolean Function $F A, B, C, D = \sum m\,(0, 2, 5, 7, 8, 10, 12, 13, 14, 15)$
The essential prime implicants are

(A) $BD, \bar{B}\bar{D}$

(B) BD, AB

(C) $AB, \bar{B}\bar{D}$

(D) $BD, \bar{B}\bar{D}, AB$