

Suppose  $E$ ,  $F$ , and  $G$  are events in a sample space  $S$ . If  $E \cup F$  and  $EF$  and  $G^c$  all occur, then which of the following events also must occur?

- (a)  $E \cup G$
- (b)  $EF^c$
- (c)  $S - F$
- (d)  $EFG$
- (e)  $FG$
- (f)  $EG$
- (g)  $EF^cG$
- (h)  $(E \cup F \cup G)^c$
- (i)  $G - E$
- (j)  $G$
- (k) None of these