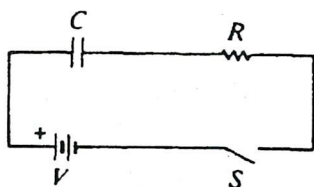
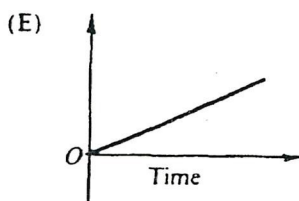
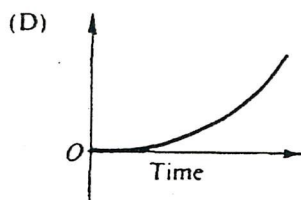
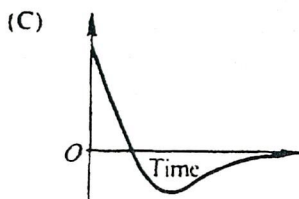
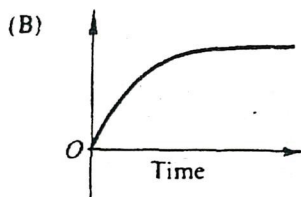
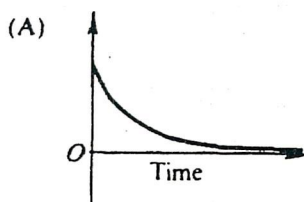


Questions 57-59 refer to the circuit shown below.



Assume the capacitor C is initially uncharged. The following graphs may represent different quantities related to the circuit as functions of time t after the switch S is closed.



57. Which graph best represents the voltage *versus* time across the resistor R ?

58. Which graph best represents the current *versus* time in the circuit?

59. Which graph best represents the voltage across the capacitor *versus* time?

Questions 60-61

Three 6-microfarad capacitors are connected in series with a 6-volt battery.

60. The equivalent capacitance of the set of capacitors is

- (A) $0.5 \mu\text{F}$
- (B) $2 \mu\text{F}$
- (C) $3 \mu\text{F}$
- (D) $9 \mu\text{F}$
- (E) $18 \mu\text{F}$

61. The energy stored in each capacitor is

- (A) $4 \mu\text{J}$
- (B) $6 \mu\text{J}$
- (C) $12 \mu\text{J}$
- (D) $18 \mu\text{J}$
- (E) $36 \mu\text{J}$