

## ELECTRONIC CIRCUITS-1

### QUESTION BANK –Answers for Unit 1 – Diode & its applications(Clipppers & clampers)

1. Determine  $v_o$  for each network of shown below for the input shown.



Ans:-

- (a) Si diode open for positive pulse of  $v_i$  and  $v_o = 0 \text{ V}$   
 For  $-20 \text{ V} < v_i \leq -0.7 \text{ V}$  diode "on" and  $v_o = v_i + 0.7 \text{ V}$ .  
 For  $v_i = -20 \text{ V}$ ,  $v_o = -20 \text{ V} + 0.7 \text{ V} = -19.3 \text{ V}$   
 For  $v_i = -0.7 \text{ V}$ ,  $v_o = -0.7 \text{ V} + 0.7 \text{ V} = 0 \text{ V}$



- (b) For  $v_i \leq 5 \text{ V}$  the  $5 \text{ V}$  battery will ensure the diode is forward-biased and  $v_o = v_i - 5 \text{ V}$   
 At  $v_i = 5 \text{ V}$   
 $v_o = 5 \text{ V} - 5 \text{ V} = 0 \text{ V}$   
 At  $v_i = -20 \text{ V}$   
 $v_o = -20 \text{ V} - 5 \text{ V} = -25 \text{ V}$   
 For  $v_i > 5 \text{ V}$  the diode is reverse-biased and  $v_o = 0 \text{ V}$ .



2. Determine  $v_o$  for each network of Fig shown below for the input shown

# Electronic Circuits Question Bank With Answers

**IM Harris**



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