Department of Electrical Engineering, 11TD EEL205, signals & systems, Minor I, Dur: I hour Max mells: 25 MAKE ASCUMPTIONS, IF NECESSARY. bob. 1 Compute the convolution between x [n] 2 h[n] cas Graphically; (b) Any other way, where x[n] = 48[n+3]-28[n+1]+38[n]-58[n-2] & h[m] = 38[m+1]+28[m]+38[m-1].(8) rob. 2 State whether true or false. Hiso justify your answer ( No credit if No justification is given) (a) x [27] us periodic, if x (m) is periodic. (Also tind period if trace). (b) x [m] is periodic, if x [2m] is periodic. (Also find period if true), (c) composition of a causal system with a mon causal system is always mon causal. mon causal system up a always non causal,

(d) An LTI system is stable if and only if it's response

(d) An LTI system is absolutely integrable.

13 Let output of on LTI system to the input

(Fig. 1(a))

2 Y [n] (Fig. 1(b))

2 Y [n] (8)

Fig. 1(a)

10 + 1 Fig. 1.(b). compute the response (adout put) of the system to the inputs given in fig 1 (c) & fid. 1(d) Fig. 1(c) Scanned by CamScanner