RoI pooling, is a technique to concert the Region of Interest proposal, to appropriate dimensions for a processing / classification.

is dependent on output of classification incorrect asked so Mai, b, d

Regression Layer in Foister PCNN layer is true Ans: d

3) Precision = TP+FP

TP: exists and correctly detected

FP: wrongly detected (exists or not) Greath

3+1 = 0.25

FN: ** exists but undetected/wronglyclassified: 4

 $\frac{1}{10+1} = \frac{1}{11} = 0.09$

[Ano: none of the above

neset gate act as forget tingut gate in BIRVS updale gate act as update solo grains

Short-term > reset

Ans: Long-term - update

[0,1] and tanh = 5) Forget gate gives output in range is [-1,1]. .. Forget gate doesn't use teth, it Signeid

2 is incorrect

=> option b,c are incorrect.

4 1) is true these (vacuosly call oprious bame 1)

TP: true positive

FH: False negative

FP! Faen Positive

(horse correctly detected)

(wrongly detected zebras)

undeteted clave undestected HOTSED

GIRV'S don't have forget

of the to

0-7.9

4: forget egates uses o, so it desides which value to pars and tanh incompany decides weightage. So 4 is true

Ans: d

Sigmoid can cause vanighing gradients problem grad of o (2) when x -> 00 or n -> -00 is very 6) small leading to vanishing grads

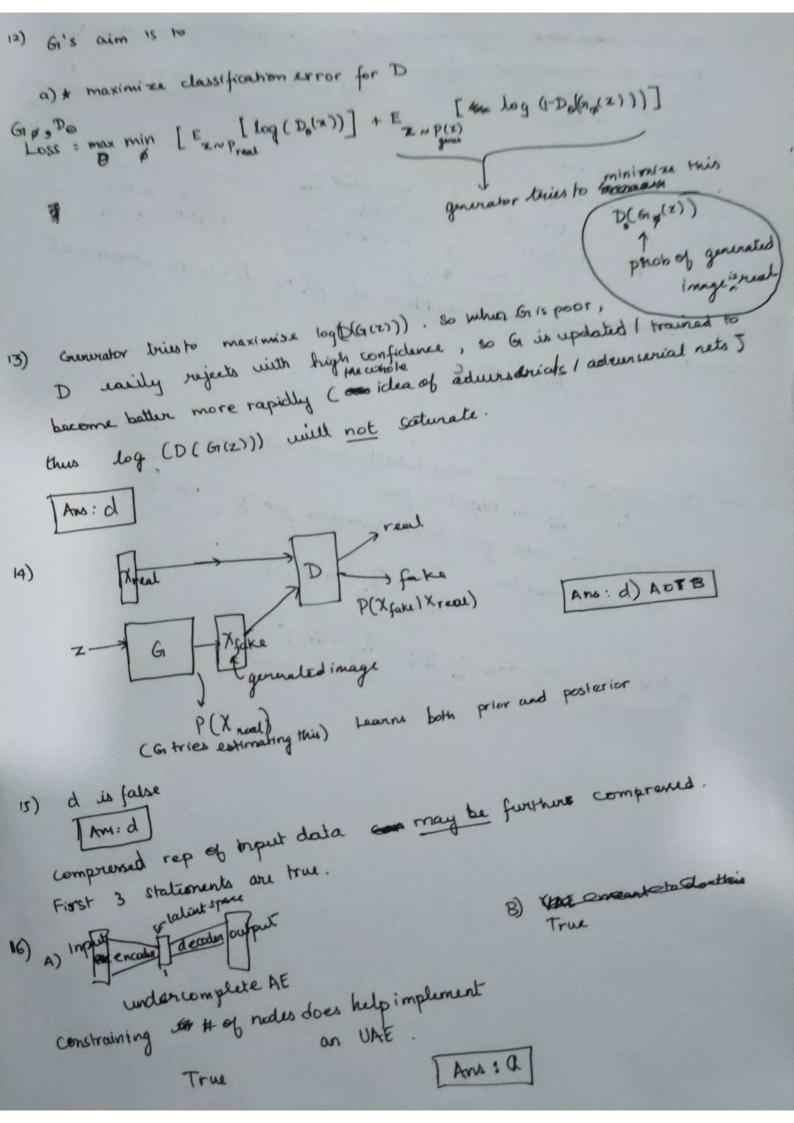
Tank also has a similar graph to o (curu appressance) and can lead to vanishing grad problem. Since only one option, It is choose first option Tan H

- 7) GIRU was less parameters and has 2 gates rather than 3 in LSTM

 making vanishing grads / exploding grads problem occurrence & maller

 and treduces braining time in larger representations.
- 8) Sigmoid best for goting mechanisms. eg. gives o if not worthy to be rembensioned and I if must be kept. (MASSEST)
- b) sigmoid gimes ron-neg. output. so feire of our 7,0 * i - o(Vi)hti) = f = U
- learning undulying P(x) is difficult, so generator needs more training these than discriminator (intuition) thus K steps for generator and 1 step for discriminator (from slides generator training then disc. training was quien)
- a) cont property and training of C-GAN done that way.

 d) training done very backprop.
 - - real and classificationautput) c) semi-supervised GANS exist



Allows many and tog vontance as transple parameter trut Z= M+E02 ... mean o centred and log variance as 1

[Ans: b] sampling is super cons plas a hyperparameter. = 0.22 % 0.2 18) Z= p+ 602 Z, = 0:2+ 0.5 (0.2)2 = 0.2 + 0.5 000 pate = 0.302 20.3 $z_2 = 0.3 + 0.8(0.1)^2 = 0.3 + 0.2(0.01)$ $z_3 = 0.14 + 0.8(0.1)^2 = 0.1 + 0.8(0.01)$ = 0.108 20.1 Intract manability of the evaluation of p(x) leads to variational inference in VAE Ans: F C 20) For each sample we need good lately representation. and we want good latent variables for χ , not $\tilde{\chi}$, so MSE must be Ex (Xij - Xij) Ans: b) ang minn in se (xij - xij)2