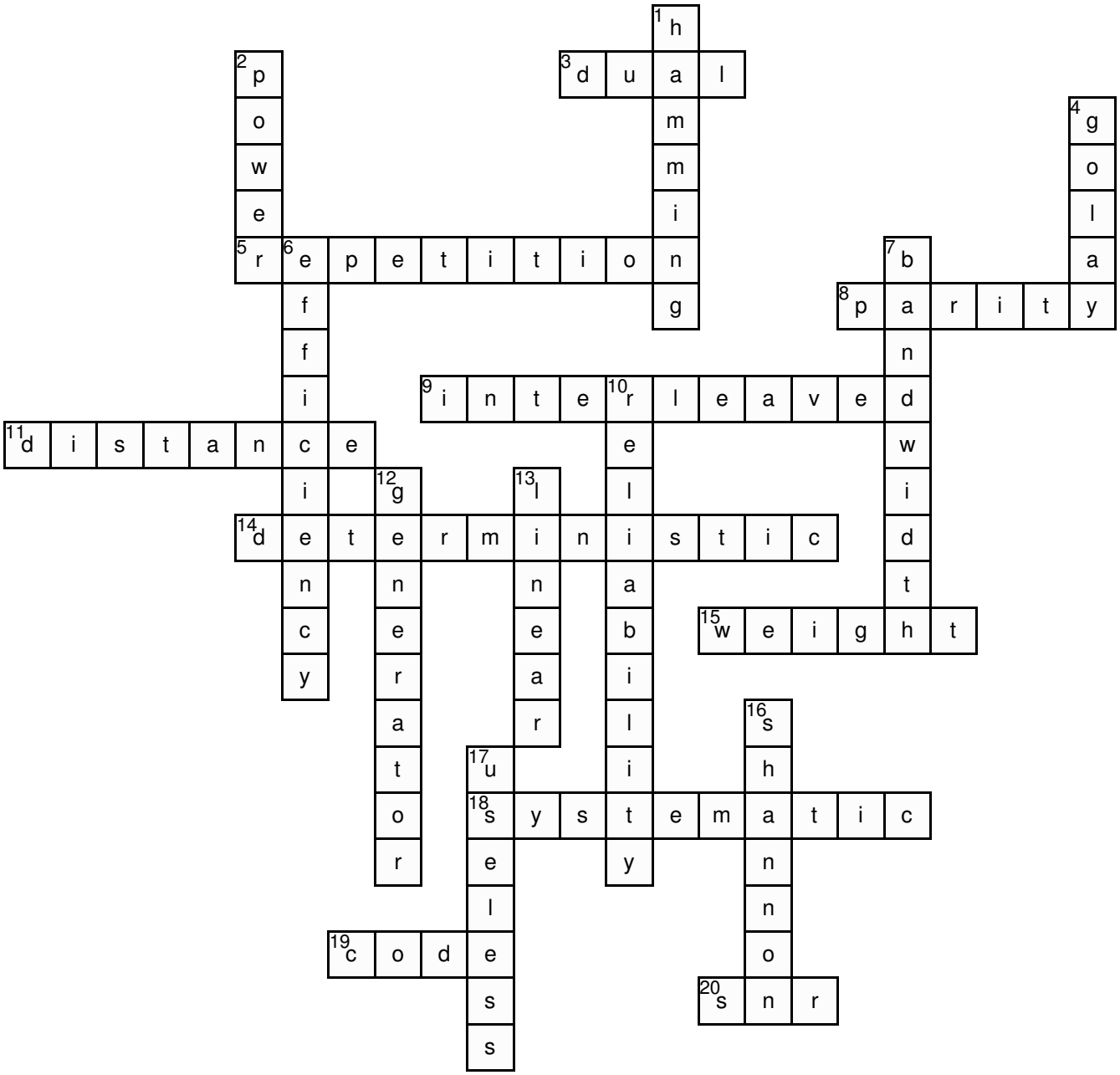
Name: _____

ITCT-UNIT II: Information Capacity and Channel Coding

Complete the crossword below T.E.(C) 14/01/2016, 2015-16 Prof. Sharada N. Ohatkar



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Across

3. H matrix can be used as generator matrix is _____Codes (**dual**)

5. (n, 1)block codes is _____ Codes (**repetition**)

8. The matrix H is called the _____check matrix (**parity**)

9. Used for burst error correction are _____Codes (**interleaved**)

11. The Hamming _____ between a and b is the number of positions in which a and b differ. (**distance**)

14. Channel Capacity is log n (**deterministic**)

15. The Hamming _____ is the number of I's in c. (**weight**)

18. If the data bits appear in specified location of c, then the code C is called (**systematic**)

19. ratio k/n is called the _____ rate. (**code**)

20. At infinite bandwidth ,the capacity of channel is determined by (**snr**)

Down

1. Error correcting capability of 1 bit are called_____ codes (**hamming**)

2. M-ary FSK is _____ limited (**power**)

4. Error correcting capability =3 are called _____codes (**golay**)

6. source coder reduces redundancy to improve (**efficiency**)

7. M-ary PSK is _____limited (**bandwidth**)

10. channel coder adds redundancy in a controlled manner to improve (**reliability**)

12. The k x n matrix G is called the _____ Matrix. (**generator**)

13. A code C is called _____ if the sum of two code words is also a codeword in C. (**linear**)

16. -1.6 dB is _____ Limit (**shannon**)

17. Channel Capacity is 0 (**useless**)