CM30173/50210: Example sheet 1
27th January

Below are four ciphertexts, I have given the cipher used in each case. You should determine the key and plaintext using whatever methods and resources you like. The plaintexts contain only lower case letters with no punctuation or spaces.

Record any resources that were helpful, which methods of attack you used and why you think they were or were not successful.

1. Shift cipher:

   WKHPDJLFZRUGVDUHVTXHDPLVKRVVLIUDJH

2. Permutation cipher:

   EMRMESEBREITCRUACYSINIHIANLTOSSEYSAEACRUEWSHTESEKANKTIL

3. Substitution cipher:

   AGBAPZTGELGPTIPMGHQCGAECHZFVCEXXGLYIGHEULTQATQHPUFEUYGZZEVGUYHGUYIPUY
   IGQUGYIPYEAYIGFNKTYYCEGLYIGFSQKZLEUMGUYPSEXIGCYIPYUQQUGSQKZLDCGPO

4. Vigenère cipher:

   EFKENHKTOBWSBWCZEDZTWEWZPNBRIPQRUNWGCRXNLKCAQACDICRHTLLETWMAHTXWFQPAH
   SFQDNJMSIFMEBXVTOBXXECEVMCAXWUWPTMUEEYMCXYSTHTXHAMUCDWYKXJWZZCGKHFABU
   MXCQWTLMSFSRTHWITOZSVTGMXGHNTWKBMVUFIQTOWYLWUSCJYGGGGAUGHZGGMCXVSWBFT
   LFSXSEBOLXDSODHLMFSDTXNRVWXIBXGWFDTHMWKHGPNBSPWEJHWITGFDIWYPZUZYVLGGE
   EFTCGFERLRTVCSGUILGFEBOLXCZEDWHRUWPTLTPNHTTQTCUOZPXOITGMGSFMIVFILRXQU
   MXHUCDFQPEBRIHTTLNPGGAGPBSNOFXHZIZDQRNTXKCZHXHIUWFBUMXGFUUMAIOSMHOKIU
   VALFHRIWMBWHQRIFXHZHQSEXNFEVHQGCYLGFDPHWSOBGBVXVKGZIIGI

All of the above are quotations, I will tell you where they come from in the problem class as to do so here would give far too much help!