Name: Student number:

Introduction to English for Scientific Communication:

Homework 1 (Articles)

Due: Tuesday 15th April (before class)

In each sentence below, the place in which "_____" appears may require an article. If an article is needed, please write in the appropriate one. If none is needed, please write "none".

1. This appears to be equivalent to _____ ordinary second quantization formalism.

2. Synchronous activity in _____ brain seems to be generated and maintained by interactions among _____ neurons.

3._____ quantity *h* has _____ interesting physical interpretation.

4. In _____ Sec. 4, we reduce this set of equations to _____ system of_____ simpler equations.

5. In this case,_____ operator of this kind does not exist.

6. We treat _____ ν and *d* as _____ continuous functions and therefore express them as ν (*x, t*) and *d*(*x, t*).

7. We plot _____ coupling strength as _____ function of *y* in _____ Fig. 1(a).

8. This type of behaviour is seen with regard to _____ eigenvector *v*1 or *v*2.

9._____ shading of _____ circle positioned at _____ centre of each cell indicates population of that cell.

10. In each case, only _____ one pair of _____ solutions is stable.

11. This is one of _____ key concepts in _____ field of _____ number theory.

12. In this paper, we consider _____ infinitesimal deformation of _____ regular arrangement of _____ particles.

13. As _____ result of _____ growth of these cells,_____ new structures are formed.

14. We choose _____ $\hbar\omega_D$ as _____ energy unit.

15._____ above results provide _____ clear understanding of the resonant behaviour.

16. Most of _____ change occurs in _____ first half of the operation.

17. We consider _____ simple equation $d\ \tau\ (x)/dx = f(x)$, where

_____ f(x) is_____second function appearing in _____ (3.4).

18. In this case it is most convenient to use _____ cylindrical coordinates.

19. This treatment is analogous to _____ standard algebraic treatment of the harmonic oscillator.

20. One of _____main results is given in _____next section.