

Using Nuclear Exam Questions from Previous Years for PHYS 30121

2008/09 was the first year of PHYS30121 as combined nuclear and particle course so an extensive set of past papers not available. However, some of the questions on the old second-year S4 core course PHYS 20302 Atoms and Nuclei, and previous third-year S6 Nuclear Physics Option PHYS30322 are suitable for revision purposes, as listed below. (And back in prehistory there were PC312 Particles, Nuclei and Cosmology and PC372 Nuclear Physics).

Bear in mind that the examiners on the 3rd Year courses may have wanted slightly more detail than I would expect on this introductory course, so treat the mark allocations with some caution.

2007/08:

PHYS30322

- (1) d, e.
- (2) First 4 marks. Last 4 if you're thinking.
- (3) All question apart from the last part.
- (4) Out of 30121 syllabus.

2006/07:

PHYS20302

- (1) a,c,d
- (2) Out of 30121 syllabus
- (3) Out of 30121 syllabus
- (4) All

PHYS30322

- (1) a ,b first part, d, e
- (2) All except I might not expect you to remember the first 5 states.
- (3) Out of 30121 syllabus.
- (4) First part.

2005/06:

PC2302

- (1) a, d, e.
- (2) Out of 30121 syllabus.
- (3) Out of 30121 syllabus.
- (4) a, b.

PC3322

- (1) a, b (although I haven't used term skin thickness!). You could have a go at (e).
- (2) Out of 30121 syllabus.
- (3) Yes.
- (4) Yes.

2004/05:

Currently not on the Teachweb pages, will update when they are there!

2003/04:

PC2302

- (1) a, e.
- (2) a.
- (3) Out of 30121 syllabus.
- (4) Most of this question

PC3322

- (1) b, d.
- (2) First 8 marks definitely, rest you could try.
- (3) First 10 marks.
- (4) First 15 marks.

2002/03:

PC2302

- (1) c, d.
- (2) Most of this question.
- (3) Most of this question.
- (4) Out of 30121 syllabus.

PC3322

- (1) a, b, c(i)-(iii), d.
- (2) Out of 30121 syllabus.
- (3) (a).
- (4) Yes.

2001/02:

PC2302

- (1) b, c.
- (2) Out of 30121 syllabus.
- (3) Out of 30121 syllabus.

- (4) Most of this question.

PC3322

- (1) a, b, d.
- (2) Out of 30121 syllabus.
- (3) First 9 marks. (a) but not state b.
- (4) Out of 30121 syllabus.

2000/01:

PC2302

- (1) d, e, f.
- (2) Out of 30121 syllabus.
- (3) Out of 30121 syllabus.
- (4) Most of this question.

PC3322

- (1) a, c.
- (2) First 10 marks, and try the rest.
- (3) (a).
- (4) Most of this question.

1999/2000:

PC2302

- (1) d, e, f.
- (2) Out of 30121 syllabus.
- (3) Out of 30121 syllabus.
- (4) Most of this question.

PC3322

- (1) e.
- (2) Out of 30121 syllabus.
- (3) Most of this question.
- (4) Most of this question.

1998/1999:

Papers don't seem to be available.

1997/1998:

PC312 Question 2 only.

PC372

- (1) Yes, but challenging.
- (2) Yes.
- (3) Out of PHYS30121 syllabus

1996/1997:

PC312 Question 2 only, maybe a little challenging.

PC372

- (1) Yes
- (2) Yes, but challenging.
- (3) Yes.