PHAS 1102 Revision

Exam: May 16, 14:30-17:00



Exam format:

Section A: "Answer ALL SIX question"

Section B: "THREE questions" (from 5)

"Galaxies & Cosmology":

Part A - Qs 4 5 6

Part B – Qs 10 & 11

UNIVERSITY COLLEGE LONDON

EXAMINATION FOR INTERNAL STUDENTS

MODULE CODE : PHAS1102

ASSESSMENT PHAS1102A

PATTERN

MODULE NAME : Physics of the Universe

27-May-09 DATE

TIME 10:00

TIME ALLOWED 2 Hours 30 Minutes

Exam format:

Section A: "Answer ALL SIX question"

(6/7 marks each - half side = 40 marks)

Section B: "THREE questions" (from 5)

(20 marks each - 2 sides = 60 marks)

Attempt what you're asked!

'Code words' + marking schemes indicate what detail is expected

LOOK OVER OLD PAPERS!

Not a race....not as hard as ICA

Read (and obey!) the instructions on the answer booklets

Do NOT write your name on the script

Do questions in any order you like, but START EVERY QUESTION ON A NEW PAGE!!

Cross out anything you don't want marked

Don't write in space marked "Don't write in this space";

Do write the numbers of questions answered

	2007	2008	2009	2010	2011
Standard model of particle physics			Α	Α	
Describe AGN/Quasars	Α		В	Α	
Describe clusters of galaxies	Α				
Describe Elliptical Galaxies		Α			
Describe Spiral Galaxies	В			A+	Α
Hubble ('tuning fork') diagram	Α	Α			
Hubble's Law (age of the Universe)		Α	Α	B+	В
Spiral Arms	В	В			
Rotation Curve (Dark Matter)	В	В		A+	Α
Dark Matter (Clusters of Galaxies)	Α		Α		В
Supermassive Black Holes/Galactic Centre			В		
Evidence for Big Bang (CMB, Source Counts, NucleoS.)	В	В	Α	B+	Α
Problems with Big Bang (inflation)		В			
Distance Scales (Cepheids, Tully-Fisher, SNe)	В	A,A	В	В	В

Ian Howarth: G19 idh@star.ucl.ac.uk Raman Prinja: G03 rkp@star.ucl.ac.uk

[Kathleen Lonsdale Building]