Term 3 Physics Common Test Guidelines for Preparation

Jun 2003

Name:			Registration Number:	03S	
Date	:	3 rd July 2003 (Thursday)			

CTs	Venues
03S01 to 03S09	LT 1
03S10 to 03S12	LT 2
03S13 to 03S27	LT 5

Plan your schedule of revision using this table!

	Lecture Topics	Tutorials			<u> </u>									
													ALCONOMIC STREET	
1	Physical Quantities and Units	 Physical Quantities and Units Scalars and Vectors 					.41 2		- hi	1	2015	1 2		
2	Errors and Uncertainties	Errors and Uncertainties	n Ly					118	lq u)		
3	Temperature	Temperature			al ac	j.,								
4	Kinematics	Linear KinematicsNon-linear Kinematics									2) - 1	110		
5	Dynamics	Newton's laws of motionLinear Momentum	en li		1.71	i fyri			ic. I					
6	Forces	• Forces	chit.		sille.				193		ud i ubi	17	1	
7	Work, Energy, Power	Work, Energy, Power		34 -					1 7117	1 11	13)1.1 2-1			_
8	Motion in a Circle	Motion in a Circle	ili, y	vi.	i i i						0.2			
9	Gravitational Field	based on lecture notes only						e lua ;	111					

Format.

Section	Ouestions	Marks	Time allocated
A#	20 mcq (shade on optical answer sheet OAS	40	#40 min
В	- note your registration number) 6 short-structured (write on question paper)	60	About 70 min
C	1 long-structured (writing paper provided)	20	About 30 min
	(Williams babas brossassa)	120	2 h 20 min

#There is a short interval after Section A to collect the OAS and question papers and distribute Sections B and C.

GENERAL ADVICE

• The day before

- Get ready your calculator (in good working order), stationery and a watch.
- Have sufficient sleep/rest the day before the paper.
- Know the venue for your class!

Actual day

- Have a light breakfast.
- Bring along your thermometer for temperature taking!
- Do not bring any valuable and electronic communication device to the venue!
- Bring a sweater/wind-breaker (if necessary)
- Raise your hand immediately if you have any problem/request.

Hints for Solving Physics Problems

- 1. Try to understand the physics of the problem before launching into a mathematical analysis
 - identify given and required variables
 - recall related physical laws, formulae and equations
 - recall similar systems
- 2. Show your working <u>neatly</u> and <u>clearly</u> on the page, and explain what you are doing and why you are doing it.
- 3. Draw a clearly-labelled diagram if it helps (it nearly always does).
- 4. Try to keep expressions algebraic (using suitable symbols) rather than numerical. Advantages:
 - units of your answer can be checked easily at the end of your calculation.
 - less likely to make mistakes if you are manipulating a few symbols rather than actual numbers.
 - expressing your answer algebraically first allows easier checking later.
- 5. Check the units of your answer.
- 6. Check the magnitude of your answer against common sense or other knowledge.
- 7. Generally, **intermediate** results should be calculated to 4 or more significant figures. However, **do not** use more than 3 significant figures in your **final** answer (unless the given data has more than 3 significant figures).