## **Short Answer Question Paper 2011**

:	1.	a) What categories of medicines of medicines can be submitted for approval, using the Centralised Procedure in Europe?	(5 marks)
		b) Ignoring timelines, briefly list the main differences in procedure and	(5marks)
		outcome between the Centralised and Decentralised Procedure in Europe	,
2		a)What is meant by the terms absolute bioavailability and relative	(2 marks)
		bioavailability ? b) Outline the key elements in the design of a relative bioavailability study.	(8 marks)
3		What considerations are relevant to the design and conduct of clinical trials n-patient populations with rare diseases?	(10 marks)
4		Briefly explain the following concepts in lay terms that could be understood by a potential trial participant:	
	a	· · · · · · · · · · · · · · · · · · ·	(3 marks)
		) Cytochrome P450	(3 marks)
	C	•	(2 marks)
	d	) Rescue medication	(2 marks)
5.	to 1	ou read an article in a medical journal about Drug X, a new drug developed to treat heart failure, which was tested against placebo in 2000 patients for year. Of the 1000 patients assigned to placebo, 80 patients were hospitalised or heart failure, compared to 40 patients in the Drug X treated group.	·
	a)	Show how you would work out the absolute risk reduction (ARR) with drug X for this event	(2 marks)
	b)	Show how you would work out the relative risk reduction (RRR) with drug X for this event.	(2marks)
	c)	and show how you would calculate the NNT	(2 marks)
	d)	to evaluate the significance of this finding	(2 marks)
	e)	Why is it important to consider both the ARR and the RRR when Interpreting results?	(2 marks)

6.	In the context of Phase III clinical development				
	a) b)	What are the aims of "superiority" and "non-inferiority" trials? List the key considerations in the design and analysis of a non Inferiority trial	(2 marks) (6 marks)		
	c) d)	State one situation where a superiority approach <u>must</u> be used State one situation where a superiority approach <u>may</u> be used	(1 mark) (1 mark)		
7.	Practice ap	scription Medicines Code of Practice Authority (PMCPA) Code of plies to the promotion of medicines to healthcare professionals ropriate administrative personnel			
	a)	Define the term "promotion" as used in the PMCPA Code of Practice	(2 marks)		
	b)	List the activities included under this term "promotion"	(8 marks)		
8.		of data should be considered before taking the decision to small molecule into formal (GLP standard) non-clinical development?	(10 marks) ,		
9.		e a spontaneous of QTc prolongation for a newly launched combination and a novel agent with a long established licensed drug.	on		
	a)	List 4 possible causes of this event in relation to this combination product?	(2 marks)		
	<b>b)</b>	What factors should be taken into consideration regarding the likely causality of this event?	(2 marks)		
10.	events in cl	the responsibilities of the investigator in the reporting of adverse inical trials?	(2 marks)		
	=	irective requires Sponsors to provide safety information during the clinical trials:			
	i) ii)	List the types of safety information that a Sponsor must provide Briefly outline the key requirements underlying this reporting	(4 marks) (4 marks)		