

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
School of Health Sciences

End Semester Examination, December 2021

Programme Name: M.Sc Clinical Research

Course Name : Management of Clinical Trials

Course Code : HSCR7004

Instructions : Attempt all the Sections

Semester : I

Time : 3 hrs

Max. Marks : 100

SECTION A

		Marks	
Ques	MCQs, One or two line answers, True/False, Fill in the blanks	30	CO1
1	What is an Interventional study?	1.5	CO1
2	Define Phase 0 clinical trial.	1.5	CO2
3	Who is responsible for preparing essential documents like protocol/ investigators brochure/ informed consent form/ case report form during clinical trials? a. Investigator b. Ethics committee c. Scientist d. Sponsor	1.5	CO3
4	Mention three non-clinical evaluations tests, conducted for life threatening diseases.	1.5	CO1
5	Why Paediatric trials are more challenging to conduct, than the trials conducted in adults?	1.5	CO2
6	Define “Surrogate end point”.	1.5	CO3
7	What is “Red Flag” in clinical trials?	1.5	CO1
8	What is the purpose of “Investigator’s Brochure” document?	1.5	CO2
9	Sponsor responsibilities include..... a. Design Study b. Manage Study c. Audit Study d. All of the above	1.5	CO3
10	Clinical Data Management begins with- a) Development of informed consent form b) Development of clinical trial insurance c) Development of investigator’s brochure	1.5	CO1

	d) Development of data management plan and case report form		
11	Case report form should include- a) Database structure specification b) SOP for data management processes c) Description of how data will be reviewed d) None of the above	1.5	CO2
12	Role of clinical data coordinator is: a) Coding adverse event, medical history b) Create database and edit check c) Design crf d) Tracking receipt of crf pages	1.5	CO3
13	What is the function of ICH-GCP?	1.5	CO1
14	What is “Single Blind” study?	1.5	CO2
15	In target identification, a good target needs to be efficacious, safe, meet clinical and commercial needs and, above all, be.....	1.5	CO3
16 is the process of applying knowledge from basic biology and clinical trials to techniques and tools that address critical medical needs.	1.5	CO1
17	Define the term “Adverse Drug Reaction”.	1.5	CO2
18	Mention any two methods of target validation in drug discovery.	1.5	CO3
19	True or False “In first pass metabolism, after absorption, drug is transported via the portal circulation to the liver, where they are metabolised extensively (more than 90–95%). This results in a marked reduction in systemic bioavailability”.	1.5	CO1
20	Give any two example of translational medicine.	1.5	CO2
SECTION B			
	Short Answer type Questions (5 marks each)	20	CO
1	Explain with two examples the function of surrogate end points in clinical trials.	2.5+2.5	CO1
2	Discuss “Translational Research Model”.	5	CO2
3	Mention the age-related physiological changes that may affect drug distribution process in geriatric population.	5	CO3
4	Distinguish between interventional and non-interventional study in clinical trials (any two difference).	2.5+2.5	CO4
SECTION C			
	Case Studies	30	
1	A rheumatologist developed a monoclonal Ab that he believe is likely to be effective in RA treatment, and it has successfully moved through Phase 1 & 2 tests. In designing a Phase 3 RCT, comparing to placebo treatment, Ques 1. What is the primary focus of Phase 3 clinical trial in this study? (5 marks)	15	CO4

	<p>Ques 2. What is Placebo treatment? (2 marks)</p> <p>Ques 3. What is the significance of Phase 3 studies of a new drug development process? (5 marks)</p> <p>Ques 4. Why do Phase 3 trials fails in most of the clinical trials ? (3 marks)</p>		
2	<p>What is Site Management Operations in Clinical Trials? (2 marks)</p> <p>What is the difference between SMO and CRO? (3 marks)</p> <p>Discuss the functions of SMO? (5 marks)</p> <p>Discuss the role and responsibilities of sponsor and investigator in clinical trial. (5 marks)</p>	15	CO5
SECTION D			
	Long Answer type Questions Scan and Upload (10 marks each) For 10 marks word limit not more than 300 words	20 marks	
1	<p>Discuss the important stages of drug development process?</p> <p style="text-align: center;">OR</p> <p>Discuss in detail about study design and conduct of paediatric trials.</p>	10	CO1 CO5
2	What is CRF? Discuss the guidelines related to CRF filling Research ethics and research audits. (2+8 marks)	10	CO2 CO3