

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2023

Course: Global Regulations of Clinical Trials
Program: Integrated B.Sc.+M.Sc. (Clinical Research)
Course Code: HSCR2021

Semester : IV
Time : 03 hrs.
Max. Marks: 100

Instructions:

SECTION A

S. No.	MCQs or Fill in the blanks (1.5 marks each)	30 Marks	CO
1	What are the types of IND?	1.5	CO1
2	Define new drug as per schedule Y of Drugs and Cosmetics Act.	1.5	CO1
3	Clinical trials and import of the new drug is regulated as per the schedule Y of Drugs and Cosmetics act. A. True B. False	1.5	CO1
4	What is the purpose of ICH E7 guidelines?	1.5	CO1
5	Which of the following populations are considered as special populations? (Select all possible answers. A. Geriatric B. Pregnant women C. Pediatric D. Cancer patients	1.5	CO2
6	As per 21 CFR-part 50 exceptions from general requirement for informed consent is given under_____. A. 50.20 B. 50.23 C. 50.24 D. 50.25	1.5	CO1
7	In parallel design of clinical trials_____. A. Same doses are administered to same sample population multiple times. B. Same doses are administered to same sample population C. Different doses are administered to same sample population D. Different doses are administered to different sample population same time	1.5	CO3
8	What are the disadvantages of cross-over design?	1.5	CO1
9	Use of just a single dose has been typical of large-scale intervention studies (e.g., post-myocardial infarction studies) because of the large sample sizes needed. A. True B. False	1.5	CO1
10	What is the placebo dosage form?	1.5	CO2
11	Which of the following is not covered under ICH E8 guidelines? A. Protection of clinical study participants B. Scientific approach in clinical study design, planning, conduct, analysis, and reporting C. Import of new drug	1.5	CO2

	D. Quality by design of clinical studies		
12	Differentiate commercial and non-commercial INDA.	1.5	CO3
13	In manufacturing information of INDA, which of the following is not necessary?? A. Composition B. Manufacturer details C. Pre-clinical data D. Stability data	1.5	CO1
14	What is CDER?	1.5	CO1
15	In which book all the approved drugs are listed? A. Black book B. Orange book C. Red book D. Silver book	1.5	CO1
16	Define active ingredient.	1.5	CO1
17	Within ___ days after FDA receives an NDA, the Agency will determine whether the NDA may be filed or not. A. 180 B. 60 C. 30 D. 365	1.5	CO1
18	What are some examples of 505(b)(2) applications? (any three)	1.5	CO3
19	What is NDA?	1.5	CO1
20	The drug for which patent is already expired, in the case ANADA ia filed under paragraph IV. A. True B. False	1.5	CO4
SECTION B			
Q	Short Answer Type Question	20 Marks	CO
1	Summarize the importance of IND.	5	CO2
2	How the disputes in NDA approval process are resolved?	5	CO2
3	Describe paragraph I to IV with respect to ANDA application.	5	CO2
4	What kind of application can be submitted as a 505(b)(2) application?	5	CO2
SECTION C 30 marks			
Q	Two case studies 15 marks each subsection	30 Marks	CO
1	Summarize and design a flowchart for the complete review process on investigational new drug application process.	10+5	CO4
2	Discuss in detail the informed consent form in clinical trials.	15	CO3
SECTION- D 20 marks			
Q	Long Answer type Questions	20 Marks	CO
1	Discuss the following with respect to Studies in Support of Special Populations: Geriatrics. a. Pharmacokinetics in renally or hepatically impaired patients b. Pharmacodynamics Dose Response Studies	5+5	CO3
2	Co-relate the drug concentration-response data to its use in clinical trials.	10	CO3