Name:	WUPES
Enrolment No:	UNIVERSITY OF TOMORROW

UPES

End Semester Examination, December- 2024

Course: Fundamentals of Clinical Research

Program: Integrated B.Sc., M.Sc.- Microbiology

Course Code: HSCR30100

Max. Marks: 100

Instructions: Read all the questions carefully.

S. No.	Section A	Marks	COs
	Short answer questions/ MCQ/T&F		
	(20Qx1.5M= 30 Marks)		
Q1.	are the documents mandatory to enroll in a clinical	1.5	CO1
	research study.		
	a) Protocol b) Case Report Form		
	c) Informed Consent Form d) Investigator's Brochure		
Q2.	A randomized design is	1.5	CO1
	a) The subjects do not know which study treatment they receive		
	b) Patients injected with placebo and active doses		
	c) Randomly assigning subjects either for placebo or active		
	dose		
	d) Signed document of the recruited patient for the clinical		
	trial procedures		
Q3.	How many people will be selected for phase II trial?	1.5	CO1
	a) The whole market b) 300-3000 people		
	c)20-300 people d) 20-50 people		
Q4.	A preparation that appears identical to the preparation of an	1.5	CO1
	active drug, but which has no biological activity?		
	a) Dummy drug b) Peptidomimetic		
	c) Placebo d) Gazebo		
Q5.	The phase of trial is usually considered to start with the	1.5	CO1
	initiation of studies in which the primary objective is to explore		
	therapeutic efficacy in patients?		
	a) Phase I b) Phase II		
	c) Phase III d) Phase IV		
Q6.	Which one of the following definitions of the types of blinding	1.5	CO1
	used in clinical trials is INCORRECT?		
	a) Open label b) Single-blinded		

	c) Double-blinded d) Triple-blinded		
Q7.	A endpoint has been defined as 'a biomarker intended to substitute for a clinical endpoint'	1.5	CO1
	a) Soft b) Surrogate		
	c) Hard d) Composite		
Q8.	A double-blind study means:	1.5	CO1
	a) Only participants know the treatment assignment		
	b) Only investigators know the treatment assignment		
	c) Neither participants nor investigators know the treatment		
	assignment		
	d) Treatment assignment is not concealed at all		
Q9.	Blinding in a trial eliminates all forms of bias. State whether	1.5	CO2
	the statement is True or False.		
Q10.	The primary endpoint in a clinical trial is:	1.5	CO2
	a) The primary investigator		
	b) The main result measured		
	c) The number of participants		
	d) The drug dosage		
Q11.	IEC stands for	1.5	CO3
QII.	a) Institutional Ethics Committee	1.5	CO3
	,		
	b) International Ethics Committee		
	c) Independent Ethics Committee		
	d) Indian Ethics Committee		
Q12.	In schedule Y, Formis required for obtaining	1.5	CO3
	permission to conduct a clinical trial for a new drug in		
	India a) Form 44		
	a) Form 44 b) Form 21		
	c) Form 12		
	d) Form 13		
Q13.	Which drugs come under the D&C act?	1.5	CO3
-	a) Adulterated Drugs		
	b) Misbranded Drugs		
	c) Spurious Drugs		
	d) All of the above		
Q14.	EMA stands for	1.5	CO4
	a) European Medicine Agency		
	b) European Medical Association		
	c) European Marketing Agency		
	d) European misbranding Agency		
Q15.	ICH stands for	1.5	CO4
	a) International Convention on Homogenization		
	b) International Conference on Harmonization		
	-,		

	c) International Conference on Homogenization		
	d) International Council on Harmonization		
Q16.	Write full form of CDSCO.	1.5	CO4
Q17.	Define Schedule Y.	1.5	CO5
Q18.	In clinical trials, a washout period is:	1.5	CO5
	a) A time for analyzing results		
	b) A time when participants switch treatments		
	c) A period to remove effects of previous treatments		
	d) When investigators take a break		
Q19.	ICMR was established in which year?	1.5	CO5
	a) 1911		
	b) 1922		
	c) 1933 d) 1944		
Q20.	Drug and Cosmetics enacted inyear	1.5	CO5
~=0.	a) 1940	1.5	
	b) 1950		
	c) 1948		
	d) 1958		
		5	
Q1.	Give an account on Preclinical testing and animal models.	(2+3)	CO1
Q2.	Classify bias in clinical trials and method to reduce bias in clinical research?	5	CO2
Q3.	Distinguish between observational and experimental research		
	design.	(2+3)	CO2
Q4.	Discuss the different Clinical trial designs used in Clinical trials.	5	CO3
	Section C (2Qx15M=30 Marks)		
		15	
Q1.	<u>Case study:</u> In 2009, many people in the Maharaja	(7.5+7.5)	CO4
	Yashwantrao Public hospital were unknowingly enrolled in		
	the clinical trial for Tonapofylline, a drug developed by		
	Biogen Idec. Most of the patients were poor and illiterate and		
	were informed that some charity was going to pay for their		
	were informed that some charity was going to pay for their expensive treatments. Some of the patients in this trial suffered		

	Question I. Was this trial ethical as per various regulatory guidelines? Justify your answer with respect to merits (if yes)			
	or violations (if no).			
	Question II. What are the various types of ethical violations			
	made in this trial?			
Q2.	Elaborate the importance of Clinical trials along with	(3+4+4+4)	CO4	
	objective, study group & size and timeline of different Phases			
	of clinical trials.			
	Section D			
(2Qx10M=20 Marks)				
		10		
Q1.	Outline the objectives and provisions of the Drugs and	(5+5)	CO5	
	Cosmetics Act, 1940, with respect to drug safety and efficacy.			
Q2.	Discuss objectives of: 1) EMA 2) ICMR	(3+3+4)	CO5	
	3) Drug and Cosmetics Act 1940			