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Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2023

Course: Regulatory Affairs

Program: B.Sc. (Clinical Research)

Course Code: HSCC3011

Instructions: No additional material like graph paper, log table, etc. is allowed for this examination.

S. No.	Section A	Marks	COs
	Short answer questions/ MCQ/T&F		
	(20 Q x 1.5 M = 30 Marks)		
Q 1	Select the responsibility/s of RA personnel	1.5	CO1
	a) To undertake stability studies of the drug products		
	b) To supervise the production of the formulation		
	c) Work with federal, state and local governing agencies to get		
	the approval for drug		
	d) To analyze the content of the active ingredient in the		
	formulation		
Q 2	Agencia Nacional de Vigiloncia Sanitaria (ANVISA) is the	1.5	CO1
	regulatory agency of		
	a) Switzerland		
	b) Japan		
	c) Brazil		
	d) Germany		
Q 3	FDA issued Tamper-resistant Packaging Regulations in	1.5	CO1
	a) 1982		
	b) 1992		
	c) 1971		
	d) 1947		
Q 4	The Drug Amendments Act of 1962 was passed by Congress requiring the	1.5	CO1
	FDA to approve all		
	a) New drug applications (NDA)		
	b) Abbreviated new drug applications (ANDA)		
	c) Both a and b		
	d) None of the above		
Q 5	Write any two advantages of electronic common technical document.	1.5	CO1
Q 6	Diethylene glycol poisoning following the use of a sulfanilamide elixir	1.5	CO1
	reported in		
	a) 1937		
	b) 1947		
	c) 1973		

	d) 1974		
Q 7	List of approved drugs and their associated IPR is available in	1.5	CO1
	a) Pink book		
	b) Orange book		
	c) Red book		
	d) Black book		
Q 8	Which of the following is regulatory authority of Australia	1.5	CO2
	a) Pharmaceutical and Medical Devices Agency		
	b) Therapeutic Goods Administration		
	c) Medicines and Healthcare Products Regulatory Agency		
	d) Central Drug Standard Control Organization		
Q 9	In Europe, variations are classified as Type-I A forchange	1.5	CO2
	a) Minor		
	b) Major		
	c) Moderate		
	d) Relative		
Q 10	What are the activities that need to be conducted by the sponsor before	1.5	CO2
	submitting an IND application?		
Q 11	Name any TWO unfortunate events that lead to the development of new	1.5	CO2
	drug regulations.		
Q 12	Enlist the types of new products regulated by FDA/CDER.	1.5	CO2
Q 13	Enlist various stages of drug development.	1.5	CO2
Q 14	Electronic common technical document (eCTD) is divided into how many	1.5	CO2
	modules?		
Q 15	Which of the following is an International regulatory authority for drug	1.5	CO2
	regulation		
	a) CDSCO		
	b) US-FDA		
	c) WHO		
	d) EMA		
Q 16	What are the responsibilities of a regulatory affair professional?	1.5	CO3
Q 17	The initiation of ICH took place with representatives of regulatory	1.5	CO3
	agencies of to discuss the wider implications and terms of		
	reference.		
	a) Japan, Australia, US		
	b) US, Europe, India		
	c) US, Europe, Japan		
O 10	d) Europe, Australia, US	1.5	CO2
Q 18	The objective of FDA- India office is	1.5	CO3
	a) To ensure the safety, quality, and effectiveness of medical		
	products and food produced in India for export to the United		
	States. h) Approval of medical products for marketing in India		
	b) Approval of medical products for marketing in India		
	c) Import of drug in India for test and examination		

	d) Manufacture of drugs in USA for the purpose of export to India		
Q 19	CFR stands for		CO3
	a) Code of Federal Regulations		
	b) Centre of Federal Regulations		
	c) Code of Federal Register		
	d) Centre of Federal Regulator		
Q 20	Central Drug Standard Control Organization (CDSCO) is the regulatory	1.5	CO3
	agency of which country?		
	Section B		
	(4 Q x 5 M = 20 Marks)		
Q 1	Enlist various documents for regulatory writers. Discuss core expertise of a	2 + 3	CO1
	regulatory writer.		
Q 2	Discuss any two unfortunate events and their impact on historical	5	CO2
	revolutions of global drug regulation system.		
Q 3	State about the role of a regulatory affair professional.	5	CO4
Q 4	What is an Institutional Review Board (IRB)? What are the	2 + 3	CO4
	responsibilities of IRB?		
	Section C		
	$(2 Q \times 15 M = 30 Marks)$		
Q 1	(A) Explain the process of regulation and registration for biosimilar drugs.	7.5 + 7.5	CO3
	(B) Explain clinical data validation. Discuss eight characteristics of		
	clinical data validation.		
Q 2	(A) Write a note on medical device regulation in India.	5 + 10	CO4
	(B) Discuss various application of quality system regulation in medical		
	device design and manufacturing.		
	Section D		
	$(2 Q \times 10 M = 20 Marks)$		
Q 1	What is the role of US Food and Drug Administration (US FDA) in	5 + 5	CO1
	pharmaceutical regulation? Discuss emerging product categories in		
	the regulation of drugs.		
Q 2	Define electronic common technical document (eCTD). Explain different	2 + 8	CO2
	modules in an eCTD.		