Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2022

SECTION A

Course: Biosafety and Aseptic Techniques Program: Int. BSc + MSc (Microbiology) Course Code: HSMB2012 Semester: 3rd Time : 03 hrs. Max. Marks: 100

Instructions:

SECTION A (20Qx1.5M=30Marks)				
S. No.		Marks	CO	
Q 1	Aerosol refers to a droplet of less in diameter; (a) 2, (b) 5, (c) 8, (d) 10.	1.5	CO1	
Q 2	Define Laboratory-Associated Infections.	1.5	CO1	
Q 3	What is aerosol? Is it hazardous?	1.5	CO2	
Q 4	Define microbial agent.	1.5	CO2	
Q 5	Write the full form of DBT and DST.	1.5	CO3	
Q 6	Write the full form of NIH and WHO.	1.5	CO5	
Q 7	Write the difference between liquid and solid waste.	1.5	CO1	
Q 8	Write the full form of IBSC committee.	1.5	CO2	
Q 9	Write the full form of BMBL.	1.5	CO1	
Q 10	Write the full form of SARS-CoV-2.	1.5	CO3	
Q 11	Standard Precaution does not include: 1) use of personal protective	1.5	CO4	
	equipment (e.g., gloves, gowns, facemasks), 2) hand hygiene, 3) safe			
	techniques/practices, 4) drinking 70% ethanol before coming to the lab.			
Q 12	High individual risk, low community risk will fall under which risk	1.5	CO1	
	group? Risk Group-1, Risk Group-2, Risk Group-3, Risk Group-4.			
Q 13	Write the full form of PPE kit and CDC.	1.5	CO2	
Q 14	Which BSL facilities require airlock with shower? BSL-1, BSL-2, BSL-2, BSL-4	1.5	CO1	
Q 15	3, BSL-4. Write the full form of ICMR and IACR.	1.5	CO3	
Q 13 Q 16	Who will be the primary contact point in case of laboratory accidents?	1.5	CO3 CO4	
Q 10 Q 17	Discuss the role of Biological Safety Officer (BSO).	1.5	CO4 CO4	
Q 17 Q 18	Discuss the role of IBSC committee at institution level.	1.5	CO4 CO2	
Q 18 Q 19	Can we use HIV and SARS-CoV-2 in BSL-2 facilities?	1.5	CO2 CO5	
Q 19 Q 20	Define waste management.	1.5	CO5	
Q 20	SECTION B	1.5		
(4Qx5M=20 Marks)				
Q 1	Discuss the roles and responsibilities of Research Coordinator.	5	CO2	
Q 2	Write the difference between global and local biosafety regulations.	5	CO2	
Q 3	Discuss the mechanisms of different route of transmission of	5	CO3	
_	biohazardous materials in the body.	3		
Q 4	Discuss why Sodium Hypochlorite are being used to disinfect the	5	CO1	
	aseptic labs?	~		

SECTION-C					
(2Qx15M=30 Marks)					
Q 1	What is Biosafety Cabinet? Discuss the role of HIPA filter in Biosafety	15	CO1		
	Cabinet.	15			
Q 2	Explain the classification of infective microorganisms by risk group.	15	CO2		
	Discuss risk group-1, -2, -3 and -4 in detail.				
	SECTION-D				
(2Qx10M=20 Marks)					
Q 1	Write the difference between BSL-2 & BSL-3.	10	CO3		
Q 2	What is Quality Assurance (QA)? Discuss the role of Principal	10	CO4		
	Investigator (PI) in QA.	10			