## 21BT382

USN	Question Paper Version: D

## Third Semester B.E. Degree Examination, Jan./Feb. 2023 **Bio Lab Management and Risk Assessment**

a) CH<sub>4</sub>

ime:	1 hr.] [Max. Marks: 50
6419	INSTRUCTIONS TO THE CANDIDATES
1.	Answer all the fifty questions, each question carries one mark.
2.	Use only Black ball point pen for writing / darkening the circles.
3.	For each question, after selecting your answer, darken the appropriate circle
	corresponding to the same question number on the OMR sheet.
4.	Darkening two circles for the same question makes the answer invalid.
5.	Damaging/overwriting, using whiteners on the OMR sheets are strictly
	prohibited.
1.	Choose the correct option from those in each of the sentence below:  Perishable foods should not be allowed to stand at room temperature for more than  a) One hour b) Two hour c) Four hour d) Eight hour
2.	The process of heating mill to kill pathogenic microorganisms is calleda) Sterilization b) Irradiation c) Pasteurization d) None of the above
3.	Which Government agency is responsible for enforcing standards for wholesomeness and quality of grains, produce , meat , poultry , milk and eggs produced in the U.S through inspecting and grading?  a) USDA b) FDA c) CDC d) EPA
4.	An incident can be called hazardous only when  a) Stressor has the potential to cause harm to human and ecological system b) Poses threat to surrounding c) Monitoring has failed d) Outburst of chemicals
5.	<ul> <li>Which of the following are the reasons for increasing incidence of food – borne illness?</li> <li>a) Increased consumption of food imported from Foreign Countries</li> <li>b) Increased number of individuals eating in restaurants</li> <li>c) Better diagnosis by physicians</li> <li>d) All of the above</li> </ul>
6.	Environment Protection Act was enacted in India during a) 1986 b) 1984 c) 1994 d) 1987
7.	The Global Warming Potential (GWP) is the least for which of the following green house

 $\begin{array}{cc} c) & N_2O \\ Ver-D-1 \ of \ 5 \end{array}$ 

d) SF<sub>6</sub>

b) CO<sub>2</sub>

8.	a) c)	to Protocol is related to Food safety Control of green house gases emission	b) d)	None of the above
9.	a)	ich of the following is an essential of qua Purchasing and Inventory Customer Service	d)	All of the above
10.	2)	Canada D) USA	0)	Brazil d) Argentina
11.	The	e application of combination of laborato ety equipments when working with po	ry pi	bractices and procedures, lab facilities and tially infections microorganisms is called
	a) c)	Biosafety Uncontrolled Access Zones	b)	Sterilization Decontamination
12.	a) c)	Toxins derived from microorganisms	d)	) All of the above
13	a)	ne temperature range and pressure mainta 103° - 114° C & 20 lbs 142° - 153° C & 25 lbs	ď	1) 150° - 160° C & 12 (bs
14	2)	Direct flaming b) Hot air oven	C	e for dry heat sterilization used in biolabs? e) Autoclave d) Incineration
15	SC	1 C I I I I I I I I I I I I I I I I I I	1	lly required for growing microbes on a large  c) Sludge Digestor d) Industrial Oven
10	a b c	The number of organisms it takes to	r-tin	me in a variety of environment.  se disease in a person.
1		Containment may be best achieved through) An action or series of action taken to Effective vaccinations or antibiotic Combining good laboratory practiced. Reducing the number of organisms	treates, sa	tment afety equipment and facility design kes to cause disease or illness in a person.
1	18.	Which of the following organisms is an a) E.Coli b) Ebola Virus	exar	mple for Biosafety – Level 1 Risk? c) Anthrax d) Tuberculosis
		Which of the following colour is used for a) Red b) Orange		c) dicci
	20.	Agents associated with serious or l therapeutic interventions may be availal a) BSL 1 b) BSL 2	etha	al human disease for which preventive or are categorized under

21.	includes rules of conduct that may be used to regulate our activities concerning the biological world.				
	a) Bio - piracy	b) Biosafety	c) Bioethics	d) Bio-pa	tents
22.	Basal convention on trans – boundary movement of hazardous waste was implemented in				
	the yeara) 1969	b) 1999	c) 1979	d) 1989	
23.	Assessment (EIA)?	t sequence for impartment $\rightarrow$ Identification			•
	<ul> <li>Evaluation of impacts → Identification of mitigation.</li> <li>b) Identification of impacts → Prediction of impacts → Evaluation of impacts →</li> </ul>				
	<ul> <li>Description of event → Identification of mitigation.</li> <li>c) Identification of impacts → Description of event → Prediction of impacts → Evaluation of impacts → Identification of mitigation.</li> </ul>				
	<ul> <li>d) Prediction of impacts → Identification of impacts → Description of event →</li> <li>Evaluation of impacts → Identification of mitigation.</li> </ul>				$\rightarrow$
24.	<ul><li>b) Genetic Enginee</li><li>c) Genetic Ethical</li></ul>	Approval Committee cring Activation Com Activation Commissi ering Approval Comm	mission. on		
25.	Potentially toxic wa a) Radioactive wa c) Pharmaceutical	ste -	b) Chemical w		
26.	The core principle o a) Beneficance	f bioethics are all of t b) Justice	he following except c) Malefisence	d) Autono	my
27.	Durable material use a) Polyethylene	ed to make heat – resi b) Sodalime	stant glassware used c) polystrene	d in biolabs isd) Borosili	_ cate
28.	1992 in which city?	ference on Environm			
	a) Rio de Janeiro	b) Kyoto	c) Stockholm	d) Copenh	agen
29.	GMOs have played a) Lika Virus	a major role in the de b) Ebola Virus	velopment of vaccir c) Hepatitis B	nes including d) All of th	ne above
30.	Which of the follow a) DNA → Geno c) Protein → Prot		b) Lipids $\rightarrow$ Tr	* *	
31.	Which of the follow a) Tobacco	ing is considered to b b) Cotton	e the first transgenie c) Maize	c crop? d) None of t	the above
32.	The total number of a) Four	principles in a HACC b) Seven	CP system are c) Eight - D - 3 of 5	d) Ten	

33.	Which of the following Vitamin is the major component of Golden Rice?  Which of the following Vitamin D. (a) Vitamin C. (b) Vitamin C. (c) Vitamin C. (d) Vitamin A.
33.	a) Vitamin B b) Vitamin D
34.	Which of the following Bacterium is called "Superbug" that could clean up oil spills?  a) Bacillus subtilis b) Psuedomonas putida c) Pseudomonas denitrificans d) Bacillus denitrificans
35.	Why is flavr – Savr tomato known for?  a) Increased shelf - life  c) Different taste  b) Nematode resistance d) All of the above
36.	Chlorella sp. are widely used in the removal of a) Organic wastes b) Hydrocarbons c) Heavy metals d) All of the above
37.	The use of living microorganisms to degrade environmental pollutants is called  a) Microremediation
38.	a) Incineration c) Autoclaving d) Sieving
39.	sharp wastes (including needles and blades) a) White b) Yellow c) Red d) Blue
40	a) Enhancing mineral content c) Insect – resistance d) Enhancing shelf - life
41	acquired infections: a) Aerosol b) Ingestion c) Parental d) None of the above
42	<ul> <li>Which of the following biosafety level practice involves clothing change before entering and shower on exit?</li> <li>a) BSL 1</li> <li>b) BSL 2</li> <li>c) BSL 3</li> <li>d) BSL 4</li> </ul>
4	<ul> <li>Which of the following is the main objective of risk assessment?</li> <li>a) To evaluate hazard and minimize the risks</li> <li>b) Remediation of containment sites</li> <li>c) Hazard management</li> <li>d) To know the source of pollutants</li> </ul>
4	<ul> <li>c) Hazard management</li> <li>d) Which of the following statements is / are correct with respect to Cartagena Protocol?</li> <li>a) It was the first international regulatory framework for safe transfer, handling and use of Living Modified Organisms (LMOs).</li> <li>b) It was negotiated under the aegis of the Convention on Biological Diversity (CBD)</li> <li>c) India is party to the protocol</li> <li>d) All of the above are correct</li> </ul>
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45.	adverse health effect.			
	a) Hazard Identification	b) Exposure Assessment		
	c) Toxicity Assessment	d) Risk characterization		
46.	When working with infections biological n would be a) On a laboratory bench c) On a clean bench with dust mask	b) In a biological safety cabinet d) In a fume hood		
47.	What does HACCP stand for?  a) Hazard Analysis and Critical Control Point b) Hazard and Critical Control Point c) Health Analysis and Critical Control Point d) None of the above			
48.	Cartagena protocol was adopted in the year _a) 1998 b) 2004	c) 2000 d) 2008		
49.	Which of the following is not one of the step  a) Risk Response Development c) Risk Assessment	s in risk management process? b) Risk Tracking d) Risk Identification		
50.	HEPA stands for a) High Efficiency Particles in Air c) High Efficiency Particulate Air	<ul><li>b) High Evaluation Protected Air</li><li>d) None of the above</li></ul>		

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