

St. Philomena's College (Autonomous), Mysore			
PG Department of Biochemistry			
Question Bank (Revised Curriculum 2020-21 onwards)			
First Year- First Semester (2020-21 Batch)			
Course Title (Paper Title): Waste Management & Bioremediation(SEC) QP Code - 84141			
Sl. No	Unit	Questions	Marks
1	1	Mention the different sources of industrial waste.	2
2	1	What is a waste? Give an example.	2
3	1	Enlist the different types of waste.	2
4	1	Enlist the different methods for disposal of waste.	2
5	1	What are the different sources of waste? Give examples.	2
6	1	What is mining?	2
7	1	How garbage differs from normal waste?	2
8	1	Define pyrolysis.	2
9	2	Define incineration	2
10	2	What is incineration? Give its significance	2
11	2	Give any two examples for radioactive waste.	2
12	2	What are pollutants?	2
13	2	List out the different sources of municipal solid waste.	2
14	2	Give the 5R'concept involved in waste management.	2
15	2	What are recyclable wastes? Give an example.	2
16	2	What are non-recyclable wastes? Give an example.	2
17	2	Enlist the different methods involved in collection of solid waste.	2
18	2	What do you mean by composting?	2
19	2	Mention the importance of aerobic digestion in solid waste disposal.	2

20	2	Mention the importance of anaerobic digestion in solid waste disposal.	2
21	2	What are biomedical wastes?	2
22	3	Why do we use plastics?	2
23	3	Mention any two examples for biodegradable plastics.	2
24	3	List out the environmental effects caused due to e- waste.	2
25	3	What is E-waste?	2
26	3	Name any two control measures involved in plastic waste management.	2
27	3	List out the environmental effects caused due to plastic waste.	2
28	3	Name any two control measures involved in e- waste management.	2
29	4	Enlist the factors affecting bioremediation.	2
30	4	Define Bioremediation.	2
31	4	What is a “super bug”?	2
32	4	What do you mean by Phytoremediation?	2
33	4	Define Biostimulation.	2
34	4	Define Bio-augmentation	2
35	4	What are the pros & cons of Bio-augmentation?	2
36	4	Enlist the different Biocomposting techniques.	2
37	4	What is vermicomposting?	2
38	4	What is in-situ bioremediation?	2
39	4	What is ex-situ bioremediation?	2
40	4	Name the types of in-situ bioremediation.	2
41	4	What are the advantages of ex-situ bioremediation?	2
42	4	What are the advantages of in-situ bioremediation?	2
43	4	What are the disadvantages of ex-situ bioremediation	2

44	4	What are the disadvantages of in-situ bioremediation?	2
45	4	Name any two important microorganisms involved in bioremediation.	2
46	4	List out the factors affecting bioremediation.	2
47	4	What are Biofertilizers? Give an example.	2
48	4	Name any two commercially available Biofertilizers in the market.	2
49	4	Mention the importance of Biofertilizers.	2
50	4	Name any two microorganisms that play crucial role in formulation of Biocomposting.	2
1	1	Write short note on industrial waste.	5
2	1	Discuss on the concept of general waste management.	5
3	1	Elaborate on pollutants as potent source of waste generation	5
4	1	Explain the different types of waste.	5
5	1	Write short note on methods of waste disposal.	5
6	1	Write short note on municipal solid waste management.	5
7	1	Explain incineration and pyrolysis techniques.	5
8	2	Explain municipal solid waste & its management with suitable example.	5
9	2	Explain the source, types, and disposal principles of Biomedical wastes.	5
10	2	Explain the source, types, and disposal principles of municipal solid waste.	5
11	2	Write short note on waste segregation and recycling.	5
12	2	Explain the sources, environmental effects and control measures in disposal of plastic waste.	5
13	2	Give an account on biomedical waste management.	5
14	2	Explain biomedical waste & its management with suitable example.	5

15	2	Explain the different methods involved in disposal of municipal solid waste.	5
16	2	Explain the different methods involved in disposal of biomedical waste.	5
17	3	Write a note on pollutants in E -waste.	5
18	3	Explain the impact of hazardous substances from E-waste on health and environment with suitable example.	5
19	3	Discuss on the methods of disposal of e-waste.	5
20	3	Explain the different methods involved in disposal of e-waste.	5
21	3	Explain the source, types, and disposal principles of e- waste.	5
22	3	Comment on types, sources, disposal & management of e -waste.	5
23	3	Discuss on the methods of disposal of plastic waste.	5
24	3	Explain the different methods involved in disposal of plastic waste.	5
25	3	Explain the source, types, and disposal principles of plastic waste.	5
26	3	Comment on types, sources, disposal & management of plastic waste.	5
27	4	Explain the different types of bioremediation.	5
28	4	Elaborate on advantages & disadvantages of bioremediation.	5
29	4	Write short note on Bioaugmentation.	5
30	4	What is Bioaugmentation? Explain in detail.	5
31	4	What is Bioremediation? Explain in detail.	5
32	4	Write short note on Bioremediation.	5
33	4	What is Biocomposting? Explain with suitable examples.	5
34	4	Write short note on Biofertilizers.	5
35	4	Explain the role of microorganisms in bioremediation.	5
36	4	Explain Phytoremediation wit suitable example.	5

1	1	Give an account on methods for disposition of waste.	10
2	1	What is a waste? Explain different types of wastes in detail.	10
3	1	Elaborate on methods of waste disposal.	10
4	2	What are municipal solid wastes? Explain the collection, transportation & disposal methods of MSW.	10
5	2	Give an account on sources, collection, and transportation & disposal methods of MSW.	10
6	2	What are biomedical wastes? Explain the collection, transportation & disposal methods of biomedical waste.	10
7	2	Give an account on sources, collection, and transportation & disposal methods of biomedical waste.	10
8	2	Elaborate on municipal waste disposal methods.	10
9	2	Elaborate on sources, collection, and transportation & disposal methods of MSW.	10
10	2	Elaborate on on sources, collection, and transportation & disposal methods of biomedical waste.	10
11	2	Elaborate on biomedical waste disposal methods.	10
12	2	What are plastic wastes? Explain their collection, transportation & disposal methods.	10
13	2	Give an account on sources, collection, transportation & disposal methods of plastic wastes.	10
14	2	Elaborate on sources, collection, and transportation & disposal methods of plastic wastes.	10
15	2	Elaborate on plastic waste disposal methods.	10
16	2	Give an account on different methods for plastic waste management.	10
17	2	What are e- wastes? Explain their collection, transportation & disposal methods.	10

18	2	Give an account on sources, collection, transportation & disposal methods of e- wastes.	10
19	2	Elaborate on sources, collection, and transportation & disposal methods of e- wastes.	10
20	2	Elaborate on e- waste disposal methods.	10
21	2	Give an account on different methods for e -waste management.	10
22	2	Give an explanatory note on e-waste pollutants and its impact on environment.	10
23	2	Write a note on role of microorganisms in bioremediation.	10
24	2	Explain the different Biocomposting techniques.	10
25	2	What are Biofertilizers? Explain with suitable examples.	10
26	3	Explain types, advantages & disadvantages of bioremediation.	10
27	3	Write short note on Biostimulation & bio-augmentation.	10
28	4	Give an account on Biofertilizers.	10
29	4	Write a note on bioremediation.	10
30	4	Write short note on Phytoremediation & Bio-augmentation.	10

Model Question Paper		
St. Philomena's College (Autonomous), Mysore		
I Semester M.Sc-Final Examination		
Subject: Biochemistry		
Title: Waste Management & Bioremediation (SEC)		
Time: 3 Hours		Max Marks: 70
PART-A		
Answer any TEN of the following:		10x2=20
1.	What is a waste? Give an example.	2
2.	What is mining?	2
3.	How garbage differs from normal waste?	2
4.	What are pollutants?	2
5.	Give the 5R'concept involved in waste management.	2
6.	What are non-recyclable wastes? Give an example.	2
7.	List out the environmental effects caused due to e- waste.	2
8.	Name any two control measures involved in plastic waste management.	2
9.	Why do we use plastics?	2
10.	Name any two commercially available Biofertilizers in the market.	2
11.	What are the pros & cons of Bio-augmentation?	2
12.	Enlist the different Biocomposting techniques.	2
PART-B		
Answer any SIX questions:		6x5=30
13.	Write short note on industrial waste.	5
14.	Explain different methods of waste disposal.	5
15.	Write short note on waste segregation and recycling.	5
16.	Explain the different methods involved in disposal of municipal solid waste.	5
17.	Explain the source, types, and disposal principles of plastic waste.	5

18.	Explain the impact of hazardous substances from E-waste on health and environment with suitable example.	5
19.	Explain Phytoremediation with suitable example.	5
20.	Write short note on Biofertilizers.	5
PART-C		
Answer any TWO questions:		2x10=20
21.	Elaborate on sources, collection, and transportation & disposal methods of MSW.	10
22.	What are biomedical wastes? Explain the collection, transportation & disposal methods of biomedical waste.	10
23.	Write a note on role of microorganisms in bioremediation.	10