Exam Date & Time: 29-Sep-2020 (10:00 AM - 01:45 PM)



14BTU26

PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins

BSc DEGREE EXAMINATION MAY 2020 (Sixth Semester)

Branch - BIOTECHNOLOGY APPLIED ASPECTS OF BIOTECHNOLOGY [14BTU26]

	APPLIED ASPECTS OF BIOTECHNOLOGY [14B1U26]	Duration: 210 mins.
Marks: 75	SECTION A	Duration. 210 mins.
Answer all	the questions.	
1)	What are quantum dots?	(2)
.2)	What are dendrimers?	(2)
3)	What is an induced pluripotent stem cell?	(2)
4)	What is GVHD?	(2)
5)	What are DNA nanobots?	(2)
6)	What is siRNA?	. (2)
7)	What is tissue engineering?	(2)
8)	What is a xenograft?	(2)
9)	Define photolysis.	(2)
10)	Define a fuel cell.	(2)
	SECTION B	
Answer all	the questions.	
11)	Explain the structure and applications of carbon nanotubes.	
		(5)
a)		
[OR] (b)	Explain the principle and applications of AFM.	(5)
12)	Write down the applications of stem cells in treating neuronal diseases.	(5)
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a)		
[OR] b)	Discuss in detail about cloning and ethical issues.	.(5)
13)	Write short notes on RNA aptamers and their clinical applications.	(5)
a) [OR] b)	Explain briefly the protein based therapy for Alzheimer's disease.	(5)
14)	Outline the strategies involved in skin replacement.	
a)		(5)
[OR] b)	Explain briefly about artificial organs and their merits and demerits.	(5)
15)	Narrate the strategies involved in the production of hydrogen from waste materials.	
a)		(5)
[OR] b)	Briefly explain about the categories and concepts of bio refinery.	(5)
	SECTION C	
Answer 3 ou 16)	t of 5 questions. Explain in detail about the application of Nanoparticle in cancer detection, imaging and therapeutics.	(10)
17)	Describe in detail about bone marrow transplantation.	(10)
18)	Outline the importance of RNAi therapeutics in treating cancer.	
19)	Explain in detail about bone tissue engineering. Add a note on its limits and challenges.	(10)
20)	Discuss in detail about the source and types of biomass and conversion.	(10)

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