11/28/2020 14BTU24

Exam Date & Time: 26-Sep-2020 (10:00 AM - 01:30 PM)



## PSG COLLEGE OF ARTS AND SCIENCE

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

## BSc DEGREE EXAMINATION MAY 2020 (Sixth Semester)

## Branch - BIOTECHNOLOGY ANIMAL BIOTECHNOLOGY [14BTU24]

Marks: 75	ANIMAL BIOTECHNOLOGI [14B1024]	ouration: 210 mins.
Marks: 12	SECTION A	diation. 210 mms.
Answer all (	the questions.	
1)	What is Acrosome?	(2)
2)	What is MOET?	(2)
3)	What is the role of HEPES in animal cell culture media?	(2)
4)	What is the significance of serum in animal cell culture media?	(2)
5)	What is contact inhibition?	(2)
6)	What is the role of feeder layers in cell culture?	(2)
7)	What is electroporation?	(2)
8)	What is the role of aminopterin in HAT selection?	(2)
9)	Define ANDi.	(2)
10)	Define somatic cell genetics.	(2)
	SECTION B.	
Answer all	the questions.	
11)	Explain the process of spermatogenesis with a neat diagram.	(5)
a)	E. 1. 4	
[OR] b)	Explain the various steps involved in collection and preservation of embry	(5)
12)	Write down the advantages and disadvantages of serum containing media	. (5)
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a)		
[OR]	What is BSS? Explain its role in animal cell culture media.	(5)
13)	Write short notes on FACS.	,
		(5)
a)		
[OR]	Explain briefly about cryopreservation.	(5)
14)	Outline the strategies involved in DNA micro injection. Add a note on its merits and demerits.	(5)
a)		
[OR]	What is a gene Knockout in mice? Write down its applications.	(5)
15)	Narrate the strategies involved in the production of DOLLY.	
		(5)
a)		
[OR]	Briefly explain about the ethical issues in animal biotechnology.	(5)
	SECTION C	
Answer 3	out of 5 questions.	
16)	What is IVF? Explain the strategies involved in IVF.	(10)
17)	How will you formulate the effective animal cell culture medium?	(10)
18)	What is trypsinization? Explain in detail.	(10)
19)	Explain the various strategies involved in HAT selection.	(10)
20)	What is an embryonic stem cell? Write in detail about stem cell culture and its applications.	(10)

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