A		Reg. No. :										
		Question Pa	per C	ode:	54E	305	]					
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018												
	Fourth Semester											
	Biomedical Engineering											
	15UBM405- PATHOLOGY AND MICROBIOLOGY											
		(Regulat	ion 20	15)								
Dura	ation: Three hours					1	Max	imur	n: 10	0 M	arks	
		Answer AL	L Que	stions								
		PART A - (10 2	x 1 = 1	0 Marl	ks)							
1.	Which of the following types of necrosis is grossly opaque and chalky CO1- R white								01- R			
	(a) Coagulation (b	) Liquefaction	(c) C	aseou	s nec	rosis		(d)	Fat	necr	osis	
2.	Differentiation in cancer	e and is called CO1-						)1- U				
	(a) aplastic (b	o) anaplastic	ic (c) neoplastic (d) d					d) dedifferentiation				
3.	Endospore is produced by CO2							02- R				
	(a) clostridium (b	) bacillus	(c) ec	oli				(d)	both	a an	d b	
4.	Which of the following medium is both selective and differential?									CC	02- U	
	(a) EMB agar (b)	MacConkey agar	(c) bg	glb bro	th			(d)	all tł	ne ab	ove	
5.	Size of virus is										CC	)3- R
	(a) 10-100 nm (b	o)1-2µm	(c) 1(	)0 µm				(d)]	1-104	Å		
6.	Which of the following is	s a retrovirus?									CC	)3- R
	(a) HIV (b) Lenti	virus (c) Mu	rine Leukemia Virus					(d) All the above				
7.	Corona virus contains										CC	04- R
	(a) DNA (b	) RNA	(c) b	oth				(d)	ss D	NA		

8.	is a group of genes that are regulated as a unit, by the same regulatory gene that expresses a protein acting as a repressor or activator.							CO4- R		
	(a) <b>(</b>	Operon	(b) Regulon		(c) housek	eeping genes	(d) inducibl	e genes		
9.	Anti	ibody titer refers t	to					CO5- U		
	(a) c	concentration of a	ntibody							
	(b) affinity of antibody									
(c) specificity of antibody										
	(d) ł	nighest dilution gi	ving positive	results						
10.	Distemper virus is an example of						CO5 U			
	(a) species specific innate immunity (b) in		(b) individ	b) individual specific innate immunity						
	(c) ł	ooth			(d) none					
PART - B (5 x 2= 10 Marks)										
11.	List the four aspects of the disease process form the core of pathology CO1-U							CO1- U		
12.	Define resolution						CO2- U			
13.	Mention the various types of shocks							CO3- U		
14.	Mention the types of mutation.						CO4- U			
15.	Mention the types of antibodies.							CO5- U		
			PA	RT – C (	5 x 16= 80N	Marks)				
16.	(a)	Describe the var calcification and	ious methods l decalcificatio	adopted i on Or	n pathologi	cal	CO1- U	(16)		
	(b)	Write a detailed	note on cance	r biology			CO1- U	(16)		
17.	(a)	Summarize pu microorganisms	ure culture	techniq Or	ues for	isolation of	CO2- U	(16)		
	(b)	Describe in deta neat diagram	il about Trans	mission e	electron mid	croscope with a	CO2- U	(16)		
18.	(a)	Write a detailed effects of the same	l note on throm	mbosis b	y analysing	g the cause and	CO3- U	(16)		
	(b)	Explain the path	ology of leuk	Or emias and	d lymphom	as.	CO3- U	(16)		

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19.	(a)	Explain the structure of plasmid and its types.	CO4- U	(16)
	(b)	Or Explain structural organization of HIV genome.	CO4- U	(16)
20.	(a)	Explain in detail about immune diffusion and immune	CO5- U	(16)
		Or		
	(b)	What are the diseases caused by Bacteria, Fungia, Protozoal,	CO5- U	(16)
		Virus and Helminthes? Discuss it in detail.		