

				Sub	ject	Cod	le: k	COE	<u> 2087</u>
Roll No:									

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## BTECH (SEM VIII) THEORY EXAMINATION 2021-22 VIROLOGY

	3 <i>Hour</i> 1. Atte	mpt all Sections. If require any missing data; then choose suitably.	Marks: 70
1.	Attem	SECTION A apt all questions in brief.	$2 \times 7 = 14$
	a.	Define virus.	- A / I I
	b.	What do you understand of purification of virus?	
	c.	Define viral infection.	
	d.	What is a macromolecule?	
	e.	Define antiviral.	
	f.	What are ribozymes?	
	g.	What do you mean by pathogen?	
		SECTION B	
2.	Attem	pt any three of the following:	$7 \times 3 = 21$
	a.	What do you mean by isolation of virus and components? Discus	S.
	b.	How virus affect on host macromolecules? Discuss.	
	c.	What do you mean by Flavi viruses? Discuss in detail with some	e example of
		such viruses?	
	d.	Write a note on the dsRNA viruses with some example.	
	e.	Discuss the QA/QS issues in large scale manufacturing of vaccing	ies.
		SPOTON C	OKV
3.	Attem	SECTION C upt any <i>one</i> part of the following:	$7 \times 1 = 7$
<b>J.</b>	(a)	Write a note on history of viruses.	
	(b)	Discuss about the shapes, sizes of viruses.	*
	(0)	Discuss doods the shapes, sizes of viruses.	
4.	Attem	pt any <i>one</i> part of the following:	$7 \times 1 = 7$
	(a)	Discus virus counterattack mechanisms. Explain with some exam	
	(b)	Describe any viral diagnostic technique in detail.	•
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<b>5.</b>	Attem	pt any <i>one</i> part of the following:	$7 \times 1 = 7$
	(a)	Write a note on positive stand viruses. How are these identified?	
	(b)	Write a note on SARS family of viruses.	
6.		pt any one part of the following:	$7 \times 1 = 7$
	(a)	Write a note on the following: (i) negative stand viruses, (ii) Retrov	viruses: HIV.
	(b)	Describe the reverse transcription in detail.	
_	<b>A</b> 44		7 1 7
7.		the tany one part of the following:  What do you man by DNA vaccines? Discuss	$7 \times 1 = 7$
	(a)	What do you mean by DNA vaccines? Discuss.	
	(b)	Write a note on modern approaches of virus control.	