## PADOT CODO: BS-EE301/BS-EEE301 B)ology for Engineers UPID: 003524

Time Allotted : 3 Hours

(EE)

The Figures In the margin Indicate full marks. Candidate are required to give their answers in their own words as far as practicable

## Group-A (Very Short Answer Type Question)

1. Answer any ten of the following:	$[1 \times 10 = 10]$
(h) What refers to as "Statt of life"?	
(II) Camauba is an example ofwax	
Where can scientists obtain stem cells?	
(IV) Capcer is caused by	
Which part of the compound microscope helps in gathering and focusing tight ra	vs on the specimen to be viewed?
No Name of a transport protein is	
(Vii) The ability of the immune system to recognize self-antigens versus nonself antig	en is an example of
(Viii)has a spiral metabolic pathway	항송 회사 하시 기계 기계 시간이 보다.
(IX) The longest-lasting immunity to an intectious agent is-	했다. 회장님은 이 이 글을 샀다.
Nuclear DNA replicates in the phase.	
(XII) Name the inhibition where end products of biosynthesis pathway inhibit the active	vity of the first enzyme?
Arrange the following sequences of tumor development in the correct order?	1일 (현대) 교육의 원기 교육의 1800년 1901년 - 1901년 - 1901년
a) Metastasis b) Progressión	
c) Promotion	
d) Initiation	
하는 사람이 된 이 인터를 가지하는 것이 있습니다. 그렇게 되었습니다. 그 사람들은 그 사람들은 그 사람들은 그 사람들은 그리고 있다면 하는데 되었습니다.	
Group-B (Short Answer Type Question)' Answer any three of the following	(5 x 3 = 15)
Answer any three of the following	
2. Discuss five Kingdoms of Classification.	(5)
3. Define amino acid. What is the biological significance of it?	(5)
47 What are the stages of cancer, and what do they mean?	[5]
5. Write a short note on molecular basis of information transfer.	(5)
6. Write a short note on Electrophysiology	(5)
그는 하는 이 있다. 이번도에 하는 것이 없었다. 그 나는 그는 바다 모르는 하나 있다.	휴가 많은 그는 제도를 다 한다.
Group-C (Long Answer Type Question)	
Answer any three of the following	[15 x 3 = 45]
7. (a) Why Biology is as important as a scientific discipline like Mathematics, Physics a	ind Chemistry? [5]
(b) Mention the most exciting aspect of biology as an independent scientific discipling	e
and the control of th	[3].
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(b) Define spontaneity (c) Discuss ATP used as an energy currency.	[10]
	[2]
.9. (a) What are enzymos?  (b) Discuss about the factors affecting enzymatic activity.	[8]
(c) What is Michelis-Menten constant?	[2]
(d) Name three Cu containing enzymes.	[3].
18. (a) What is immunology? Briefly discuss the basic aspect of immunology.	7, 74 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(b) Discuss about the basic aspect of pathogen.	[5]
(c) Discuss about antigen-antibody reaction.	[5]
11. (a) Define nucleic acid.	151
(b) Briefly discuss about the monomers of nucleic acids.	[3]
(c) Write a short note on Ntrogenous base.	[10]