			(INTERM	EDIA	TE)		,		
D.,	. Supdnt.	Figtit	AJK-2		(sa)	Sian (Candidate		
. Бу	. Supunc	ricu	ious Kon No. (Por C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		oigii. C			
	OGY	(IN.	TERMEDIATE)		SMART	SYLL	ABUS		
	$(\Gamma - I)$		21/01	(*)					
	CTIVE PART) Write your Roll No.	in ens	ce provided Ov	er wri	Time: 2				
	will result in loss of		-		100000	9 0	. Iouu polion		
	h question has four possible answers, Tick ($$) the correct answer. (17)								
1	National environme	ental pi	roblem in Pakistaı	n is;					
	A Corruption	В	Pollution	C	Population	D	Tanneries		
2	Lipids are not solub	ole in;			1				
	A Chloroform	В	Ether	C	Alcohol	D	Sap		
3	Some enzymes which	h are i	nvolved in the syn	thesis	of proteins are in	tegral	part of;		
	A Lysosome	В	Nucleolus	C	Vacuole	D	Ribosomes		
4	The size of eukaryo	tic ribo	osome is;						
	A 40 S	В	70 S	C	80 S	D	60 S		
5	Which one is the sm	allest	known virus;						
	A Polio virus	В	Influenza virus	C	Herpes virus	D	Pox virus		
		:-1:			•	1			
6	Reserve food mater				C41-		Classian		
	A Fat	B	Protein	C	Sterols	D	Glycogen		
7	Giants of the protis				5		0 1		
	A Red algae	В	Brown algae	C	Diatoms	D	Green algae		
8	Histoplasmosis is a			Т-Т					
	A Lungs	В	Skin	C	Kidney	D	Eyes & brain		
9	Which of the follow			TIT		Т_Т	~*		
	A Root	В	Fruit	C	Flower	D	· Shoot		
10									
	A Nephridia	В	Nephron	C	Kidney	D	Flame cells		
11 Earthworm belongs to phylum;									
	A Echinodermata	a B	Annelida	C	Mollusca	D	Porifera		
12	The dark reaction o	ecurs i	n;						
	A Cytoplasm	В	Nucleus	C	Grana	D	Stroma		
13	The most common fuel used by the cell to provide energy by cellular respiration is;								
	A Maltose	В	Glucose	C	Fructose	D	Lipid		
14	Carbohydrate digesting enzyme of pancreas is;								
	A Amylopsin	В	Lipase	C	Trypsin	D	Pepsin		
15	The air spaces in lea	ıf may	comprise up to	0	of the total volume	e of a	leaf;		
	A 80 %	В	60 %	C	40 %	D	20 %		
16	The normal pH of human blood is;								
	A 7.4	В	4.7	С	4.5	D	5.4		
17	The cells which sup	ply AT	P and proteins to	sieve t	ubes are;				
	A Enidermal			\Box	Vessels	D	Companion		

(The End)

PAPER: PART-I

INTERMEDIATE

MARKS: 68

TIME : **2:40** Hours

(SUBJECTIVE PART)

AJK-4 SECTION-I

2-	Write short	answers of any	eight	parts.

 $(2 \times 8 = 16)$

i	Write general formula of amino acid.	ii	What is cofactor? Also write its functions.
iii	What is active site of an enzyme? Name its parts.	iv	Differentiate between reversible and irreversible inhibitors.
v	What is dikaryotic hyphae? How it is formed.	vi	How endomycorhizae is different from ectomycorhizae?
vii	What are placental mammals?	viii	Why sub-phylum vertebrate is also called craniata?
ix	Write two reasons why Echinodermata is placed at top of list of invertebrates.	x	Mention two effects of harmful insects.
хi	What are light dependant reactions and their products?	xii	What is cyclic phosphorylation? How it is activated?

Write short answers of any eight parts.

 $(2 \times 8 = 16)$

ì	Define parasitology and biotechnology.	ii	What is hydroponic culture technique?
iii	Write down the functions of golgi complex.	iv	Define storage diseases.
v	What are trichonymphas? Give their role.	vi	Write down about evolutionary significance of Euglenoids.
vii	What is sleeping sickness?	viii	Name four phylum of photosynthetic protists.
ix	Give any four characteristics of vascular plants, which enable them to become predominant flora of land.	x	Why bryophytes are said to be amphibian of the plants?
хi	Define facilitated diffusion.	xii	What is thalassaemia?

 $(2 \times 6 = 12)$

10/1111	wr	tte snort answers of any six parts.		$(2 \times 0 + 12)$
	i	Write down botanical names of brinjal and potato.	ii	What are plasmids? Give their function.
	iii	Differentiate between diarrhoea and constipation.	iv	Define chlorosis. Give its cause.
1	v	Write two functions of secretion.	vi	Give two properties of respiratory surface.
	vii	What are alveoli? Give their function.	viii	Enlist functions of nasal cavity in man.
		WI 4:		

ix What is myoglobin? Give its function.

SECTION - II

Note:- Attempt any three questions

 $(8 \times 3 = 24)$

1101	D. TAL	tempt any three questions.	
5	(a)	How scientific problem of biology can be solved by using biological method? Explain.	(04)
	(b)	Write in detail how influx of K ⁺ ions help in opening and closing of stomata?	(04)
6	(a)	Discuss primary and secondary structure of proteins.	(04)
	(b)	Describe economic gains due to fungi.	(04)
7	(a)	Describe the process of nutrition in Bacteria.	(04)
	(b)	Discuss evolution of megaphyll leaf.	(04)
	(a)	What is hepatitis? Give its types.	(04)
8	(b)	Write a note on citric acid cycle.	(04)
*	(a)	Write a note on Lysosomes.	(04)
9	(b)	Describe symbiotic nutrition in plants and nutrition in insectivorous plants.	(04)

(The End)