Question Paper BT : JAM 2023

: Q.1 – Q.10 Carry ONE mark each.
Which one of the following compounds inhibits the polymerization of tubulin to microtubules in animal cells?
ATP Strengtogy Convent
Taxol Taxol
Thymosin 5 gethnology cruster
Vinblastine Vinblastine Office of the Company of th
sters 123 md
A state of the sta
Arrange the following elements in increasing order of their electronegativity according to the Pauling scale
C, Na, Be and Brand
Be, Na, C, Br
Br, C, Na, Be Na, Be, C, Br
Na, Be, C, Br
Na, C, Be, Br

Q.3	Which one of the following is NOT a plant vascular tissue?	
(A)	Phloem	
(B)	Periderm	
(C)	Stele Stele	
(D)	Xylem Organization Institution (Approximation of the Constitution	
	1 2023	6
	1 A. W. Organian In	ay Cuwahati
Q.4	A growing shoot of a germinating seedling encounters an underground obstacle.	
a detrission test	Which one of the following hormones elicits 'triple response' to the underground obstacle?	
(A)	Auxin Land Harden	
(B)	Cytokinin	
(C)	Ethylene	
(D)	Gibberellins Total Administration of the Control o	
	C. Land Halle Co.	

Q.5	Which one of the following pairs of antibodies contains 'J-chain' in their multimeric form?	
(A)	IgA and IgE	
(B)	IgA and IgM	
(C)	IgD and IgE	
(D)	IgD and IgG	
	M202 Greenhain Institute of	diati
	ters amount	S. Cuwalladi
	Regard Institute of the	
Q.6 Rest of Re	Restriction enzymes that recognize the same nucleotide sequence but cleave at different positions are called	
(A)	heterohypekomers tusters heterohypekomers heterohypekomers tusters heterohypekomers tusters heterohypekomers tusters heterohypekomers hete	
(B)	isocaudomers	
(C)	isoschizomers	
(D)	neoschizomers Iditt kan in der state better	
	C. T. A. Balleton	

Q.7	Which one of the following does NOT belong to the freshwater ecosystem?	
(A)	Estuary	
(B)	Lentic	
(C)	Lotic Company of the design of	
(D)	Wetland Organization Institution (Institution of State of Constitution of Constituti	
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	1 A.M. Organian In	S. Counadiati
Q.8	Which one of the following is transcribed by RNA polymerase III in eukaryotes?	
Admission (A)	18S rRNA A LANGE TO THE REAL PROPERTY OF THE PARTY OF THE	
(B)	28S rRNA GOT Masters	
(C)	miRNA tritised by Julius	
(D)	TRIVATE TO THE PARTY OF THE PAR	
	itt kalinission ta kalinissi ta kalinissi ta kalinissi kain ta kalinissi ta kalinissi kain ta kalinissi kain ta kalinissi kain kalinissi kain kalinissi kain	
	City Relation	

Q.9	Given the following sets:	
	$A = \{2, 4, 6, 8, 10, 12\}$	
	$B = \{8, 10, 12, 14, 16, 18\}$	
	$C = \{7, 8, 9, 10 \ 11, 12, 13\}$	
	$B = \{8, 10, 12, 14, 16, 18\}$ $C = \{7, 8, 9, 10 \ 11, 12, 13\}$ $(A \cap B) \cup (B \cap C) \text{ is}$	
(A)	{8, 10, 12, 14} Organization III	
(B)	20 mg trastrupe t	
(C)	{7, 8, 10, 11, 12, 13, 14}	Schwaliati
(D)	The Age	
Addression tost	A.M. Organization Institution	
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	nt Admission to the state of th	
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0.10		
Q.10	Rain is falling vertically with a speed of 40 m s ⁻¹ . Wind starts blowing with a speed	
	of 16 m s ⁻¹ in the west to east direction. How should a person, who is standing, hold	
	his umbrella to avoid getting wet?	
(A)	At an angle of about 22° with vertical towards east, with	
(B)	At an angle of about 22° with vertical towards west	
(C)	At an angle of about 66° with vertical towards east	
(D)	At an angle of about 66° with vertical towards west	6
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	C. L. Land Brown B	
	of Adhitstory and Adhitstory	
	C. A. C. Holler	

Section A	a: Q.11 – Q.30 Carry TWO marks each.	ı
Q.11	Which one of the following statements about the G1 checkpoint of eukaryotic cell division cycle is INCORRECT ?	
(A)	Cell assures the existence of favorable extracellular environment	l
(B)	Cell assures the DNA has no damage used to the damage of t	
(C)	Cell assures the damaged DNAs are directed for repair mechanism	
(D)	Cell assures complete replication of DNA	Co Ladi
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	La Light Adult Adu	l
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0.12		
Q.12	Determine the correctness or otherwise of the following Assertion [a] and the	
	Reason [r].	
	Assertion [a]: Nitric oxide is involved in transient paracrine and autocrine signaling.	
	Reason [r]: Nitric oxide is highly reactive, with a lifetime of few seconds, yet can	
	diffuse freely across membranes	
(A)	Both [a] and [r] are true and [r] is the correct reason for [a]	
(B)	Both [a] and [r] are true but [r] is not the correct reason for [a]	
(C)	Both [a] and [r] are false	India.
(D)	Only [a] is true but [r] is false	ay Cuwahati
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	ission task for the day the state of the sta	
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	15 July Adult State of the Stat	

Q.13 In mice, a trait is determined by a dominant allele Y and recessive allele y. What proportion of the offspring from a YY × yy cross is expected to be homozygous recessive in F1 generation? (A) 0 (B) 0.25 (C) 0.5 (D) 1 (D)			
(A) 0 (B) 0.25 (C) 0.5 (D) 1 (D) 1 (E) Third 10 (D) 1 (D) 1 (D) 1 (E) Third 10 (E) Third 1	Q.13		
(A) 0 (B) 0.25 (C) 0.5 (D) 1 (D) 1 (E) Constitution of the state			
(C) 0.5 (D) 1		recessive in F1 generation?	
(C) 0.5 (D) 1	(A)	O CGURARITAN	
(C) 0.5 (D) 1	(B)	0.25	
Admission to the state of the s	(C)	0.5 Organization Index	
Admission to the state of the s	(D)	1 3023	<u>C</u>
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		P. A. B.	

Q.14	Match the molecules in Group I with 1	the type of bonds present in them, in Group	
	п		
	Group I	Group II	
	P) NaCl	1) Coordination bond	
	Q) H ₂	2) Polar covalent bond	
	R) Pd-P bond in Pd(PPh ₃) ₄	3) Covalent bond	
	S) C-Cl bond in CH ₃ Cl	4) Ionic bonditute of reco	Alleri Co
(A)	P-4, Q-1, R-3, S-2	2.5 in	S. Carwalian
(B) for	P-2, Q-3, R-1, S-4	organizing hashing of the	
Addition (C)	P-4, Q-3, R-1, S-2	orb man	
(D)	P-4, Q-3, R-2, S-d Relation of the state of	M201	
	Light and the state of the stat	aster's The	
	ission test for the	refer to the second sec	
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Q.15	What is the splitting pattern of proton H ^a of the following compound in its ¹ H NMR spectrum?	
	Ha OCH ₃	
	Ha OCH3	
(A)	Doublet Or Indian Control of the Con	
(B)		C
(C)	igts innot	Cy Curratati
(D)c	Triplet M 20 1	
Admissibility Str.	dets 1/2	
	Taylor Lander of the state of t	
	Le Vaint administration of the Control of the Contr	
	The state of the s	
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Q.16	Which one of the following statements is correct about solute transport across membranes?	
(A)	Passive transporters decrease the activation energy and does not facilitate the transport of polar compounds	
(B)	The direction in which a charged solute tends to move spontaneously across a membrane does not depend on the electrical gradient across the membrane	
(C)	All ABC transporters do not have nucleotide binding domain	
(D)	P-type ATPases get reversibly phosphorylated as a part of transport cycle	and Co
tion test for	Market 12023 in a supering the street of the	S. Cuwahan
Address of the Addres	Ser Agel	
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Q.17	Match the type of DNA repair mechan	nism in Group I with the enzyme(s) involved	
	Group I	Group II	
	P) Mismatch repair	1) DNA glycosylase	
	Q) Base excision repair	2) UvrA, UvrB, UvrC and UvrD	
	R) Nucleotide excision repair	3) RecA	
	S) Double strand break repair	4) MutL, MutS and MutH	and the state of t
(A)	P-4, Q-1, R-3, S-2	25 In	S. Cauvalinii
(B) to	P-4, Q-2, R-1, S-3	Organizate Institute of	
heteritaria (C)	P-4, Q-1, R-2, S-3	2025	
(D)	P-2, Q-1, R-4, S-3, Ref	M20.	
	P-2, Q-1, R-4, S-3 della property of the state of the sta	agreets 12	
	LE Laint Admission Loss for the Line of the Land of th	A CONTRACT OF THE PARTY OF THE	
	E Toju Adu and and a		

(A) 30S subunit and inhibits aminoacyl-tRNA binding	
(B) 50S subunit and inhibits aminoacyl-tRNA binding	
(C) 30S subunit and prevents codon:anticodon interactions	
(D) 50S subunit and blocks exit of growing polypeptide chain	
3023	(5)
TAIN Organization in	S. Coundinati
Q.19 In the 'Southern blot' technique, which of the following reagents is used to detect	
the presence of a desired DNA fragment?	
(A) Ethidium bromide	
(C) Silver nitrate	
(C) Silver nitrate	
(D) DNase Legion	
(D) DNase	

Q.20	The pedigree given below shows individuals affected (shaded circles/rectangles) by	
	chronic hypertension. Assuming 100% penetrance, the inheritance of this trait is	
	The state of the s	
	Organithes has true true of the constraint of th	
(A)	autosomal dominant	
(B)	autosomal recessive	Gundhati
(C)	sex-linked dominant	6,
Admissio (D)	sex-linked recessive	
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	The Manual of the State of the	
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	TE ALL HOLDER PARTY.	

Q.21	Which one of the following statements about photoproteins in plants is INCORRECT?	
(A)	Phytochromes are activated by red light	
(B)	Phytochromes are inactivated by far-red light red current light re	
(C)	Cryptochromes are sensitive to blue light	
(D)	Phototropins are insensitive to blue light	
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issign test for	Red Red Company of the Company of th	
of Additional Party of the Part	Masters 12	
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Q.22	Match the microorganisms in Group	I with the human disease in Group II	
	Group I	Group II	
	P) Treponema pallidum	1) Sleeping sickness	
	Q) Trypanosoma cruzi	Whooping cough	
	Q) Trypanosoma cruzi R) Trypanosoma gambiense sunting the state of th	3) Chagas disease	
	S) Bordetella pertussis	4) Syphilis The tree of rectinations	
	TAM	Organization tradition	
(A)	P.4, Q-3, R-1, S-2	323	
driission test	P-1, Q-2, R-4, S-3	Organization Institut	
(C)	For Alan	2025	
(D)	Act Wall	IAM	
	C. T. A. S.	Masters	
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Q.23	Which one of the following is correct in the case of conjugation of a high frequency recombination (Hfr) strain with F ⁻ strain of <i>E. coli</i> ?	
(A)	Recombination frequency is high, F factor transfer frequency is low	
(B)	Recombination frequency is high, F factor transfer frequency is high	
(C)	Recombination frequency is low, F factor transfer frequency is high	
(D)	Recombination frequency is low, F factor transfer frequency is low	and the same of th
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of Additional Party of the Add	Marters 12.	
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	Leg Laight and Redering Land Land Land Land Land Land Land Land	
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	E. Light of the Control of the Contr	

Q.24	Determine the correctness or otherwise of the following Assertion [a] and the	
	Reason [r].	
	Assertion [a]: The cardiovascular organization called double circulation provides	
	vigorous flow of blood to the brain, muscles, and other organs.	
	Cutweditate	
	Reason [r]: The blood is pumped a second time after it loses pressure in the capillary	
	beds of the lungs or skin.	
(A)	Both [a] and [r] are true and [r] is the correct reason for [a]	
(B)	Both [a] and [r] are true but [r] is not the correct reason for [a]	6
(C)	Both [a] and [r] are false	Cuwahati
(D)	[a] is true but [r] is false	5
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Q.25	The inability in humans to taste capsaicin resides in a single gene difference between	
	two alleles P and p . The allele P for tasting is dominant over the nontasting allele.	
	In a population of 400 individuals in Hardy-Weinberg equilibrium, 64 are	
	nontasters. How many individuals are heterozygous for the gene?	
	ghait	
(A)	64	
(B)	128	
(C)	144	
(D)	192 M 20 1	atari Co
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Q.26	A genetic linkage map represents the	
(A)	relative locations of genes on a chromosome	
(B)	distribution of the mutational hotspots	
(C)	phylogenetic linkage among organisms greethed	
(D)	accurate physical distances among loci	
	2023	6
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Q.27	Class II MHC molecules are NOT expressed by	
Admission (A)	B-cells A Properties of the second se	
(B)	dendritic cells Lest to the start that the start to the s	
(C)	macrophages the state of the st	
(D)	T-cells T-cells	
	with Adhission will be a state of the state	
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Q.28	Which one of the following enzymes is required to ensure the replication of a negative-sense or negative-strand RNA virus?	
(A)	DNA-dependent RNA polymerase	
(B)	DNA polymerase	
(C)	RNA-dependent DNA polymerase likelike di	
(D)	RNA-dependent RNA polymerase	
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	ission test for the	
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Q.30	Match the recombinant DNA produc	ets in Group I with its application in	
	Group II		
	Group I	Group II	
	P) Tissue plasminogen activator	1) Emergency treatment of heart	
	Q) Erythropoietin Organization (Augusting Lingh)	2) Treatment of anemia	
	R) Superoxide dismutase	3) Prevents tissue damage	6
	S) Interferon	4) Stimulates cells to inhibit viral	Cauvaliati
	Maders	replication	old of
(A)	P-1, Q-2, R-3, S-4	Standing healthe of	
Address (B)	P-1, Q-3, R-4, S-2	O'India	
(C)	P-3, Q-1, R-4, S-2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	M201	
(D)	P-3, Q-1, R-4, S-2 P-4, Q-3, R-1, S-2	14	
	The state of the s	r Man	
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Section B	8: Q.31 – Q.40 Carry TWO marks each.	
Q.31	Which of the following statement(s) is/are correct about telophase?	
(A)	Daughter chromosomes are yet to form	
(B)	New nuclear envelop starts to reassemble ethicide	
(C)	Division of cytoplasm begins the little litt	
(D)	Nuclear membrane disappears	C
	AM Organization	Schwahott
× 50	A Master's Treatment of Treatme	
Q.32 sufficient	The characteristic morphological change(s) in cells undergoing apoptosis is/are	
(A)	formation of blebs on cell surface	
(B)	swelling and bursting of cells	
(C)	collapse of the cytoskeleton	
(D)	condensation and fragmentation of nuclear chromatin	
	Canal Report of the Control of the C	

Q.33	A species of fish living in a lake are separated by drying up of the lake into two	
	separate lakes. After several hundreds of years of separation, the two groups are	
	unable to mate. These groups are now considered to be different	
(A)	communities	
(B)	organisms The true of rechnited	
(C)	populations (transfer in the control of the control	
(D)	species 3023	
	TAMA Organization	S. Cuwaliati
ate	Magter's 2023	
Q.34 July Selfer	Which of the following compound(s) is/are aromatic?	
(A)	H H A Little begger of the state of the stat	
(B)	N KOT MAS	
	H testor test start	
(C)	The state of the s	
(D)		

Q.37	Which of the following option(s) represent(s) the evolutionary relationship between the bird and bat wings as structures for flying?	
(A)	analogous	
(B)	convergence	
(C)	divergence divergence	
(D)	homologous te cedinal post Current	
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Q.38	Different segments of a photosynthetic filamentous alga are exposed to different	
	wavelengths of light as shown below. After a period of time, bacteria known to	
	migrate towards high oxygen concentration, is spread on the surface of the alga.	
	Which region(s) of the alga will have maximum bacterial congregation?	
	all	
	400 nm 500 nm 600 nm 700 nm	
	$\begin{array}{cccc} \longleftarrow P & \longrightarrow \longleftarrow Q & \longrightarrow \longleftarrow R & \longrightarrow \\ & \text{region} & \text{region} & \end{array}$	
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(A)	P and R	A Counditati
		El G.
(B)	Pageth Q	
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Attrission (C)	Only P	
Zella .	· ets	-
(D)	Only Q	
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Q.39	Hyperventilation (breathing rapidly and deeply) causes which of the following	
	event(s) in the arterial blood?	
(A)	Decrease in CO ₂ concentration	
(B)	Decrease in proton concentration	
(C)	Increase in pH	
(D)	Increase in O ₂ concentration	
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Q.40 Lest of	Which of the given statement(s) about synthetic oligonucleotides is/are correct?	
Addition (A)	Chemical synthesis extends the DNA chain from 3'→5'end	
(B)	They can be utilized for site-directed mutagenesis	
(C)	Chemical synthesis extends the DNA chain from 5'→3'end	
(D)	They can be utilized as radiolabeled probes	
	The Later Berger Land Berger Land Land Land Land Land Land Land Land	
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Section (C: Q.41 – Q.50 Carry ONE mark each.	
Q.41	The net number of molecule(s) of NADH formed from one molecule of glucose in	
	glycolysis under aerobic conditions is/are	
	Institute of rectinology C	
	Organitant Institut	
Q.42	The number of possible unique combination(s) of linear tetrapeptides that can be	
	made from four different amino acids using each amino acid only once in the chain is/are	Canadati
	Masters 2023	d.
Adnission test	AM A Organithes Institute	
Q.43	Among <i>i</i> -BuNH ₂ , NH ₃ , Me ₂ NH, EtNH ₂ , the number of compound(s) more basic than	
	MeNH ₂ is/are cot the .	
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Q.44	Among K ⁺ , Li ⁺ , Rb ⁺ , Cs ⁺ , the number of cation(s) having ionic radii more than Na ⁺ is/are	

Q.45	Among the five fragments given below,	
	• CH ₂ -CH ₃ , CH ₃ -CH ₃ , CH ₃ -CH ₂ -CH ₂ , CH ₂ -CH=CH ₂ , [CH ₃ -CH ₂ -CH ₃] • the number of fragment(s) accelerated to the analyzer tube in mass spectrometer with electron ionization is/are	
	Organization Institute of recting.	
Q.46	A restriction endonuclease has a recognition site of 3 bases. Assuming random arrangement of nucleotides, the probability that this endonuclease will cut a piece	©
25	of DNA is (rounded off to three decimal places).	Cy Counadati
Adnission tells	A CORPORATION IN CONTRACTOR OF THE PROPERTY OF	
Q.47	A massless ideal spring is hanging vertically. A sphere of mass of 500 g, suspended from the spring, stretches the spring from its initial position by 50 cm when it reaches equilibrium. The force constant of the spring is N m ⁻¹ . (Use g=10 m s ⁻²)	
	La Loint Admission to the Rate Rate Rate Land	
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Q.54	An electron is accelerated from rest through a potential difference of 200 V. The de	
	Broglie wavelength associated with this electron is nm. (Rounded off to 2	
	decimal places) (Planck's constant = $6.6 \times 10^{-34} \text{ J s}$, $1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$, mass of an	
	electron = $9.1 \times 10^{-31} \text{ kg}$	
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	and Carange	
	a detendado de la companya del companya de la companya del companya de la company	
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0.55	Civan data consists of distinct valves of a convening with frequesting f. The mann	
Q.55	Given data consists of distinct values of x_i occurring with frequencies f_i . The mean	
	value for the data is (rounded off to one decimal place)	- Contraction of the Contraction
	ntiking tradition	69
	Great Britain	nyahati
	x_i 5 6 8 10	
	Agaster's streeting	
ostfo	f_i 8 10 10 12	
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Q.56				pability distribution to one decimal plac		. The value of	f
	X	0	1	2 3	4	5	
	P(X)	0	k	2k 3k	6k	8k	
			Organizh	R. Institute of		and that	
		8	5		stitute of rectinology to		
		71/20		desaring the state of the state	in the state		
Q.57	A protein so	olution of 1	μM has tra	ansmission of 40 %	at 280 nm, who	en measured in	Start City
Admission test	The Tax	nen measui		e spectrophotometer 2 om cuvette is		till Of	
S. C.		et for Master	,		2023		
	int Admissis	In the Hall		JAM	1		
Q.58	If a bacteria the number			ing time of 30 minu	ites starts with t	wo cells, then	
			Joint Admission	E T			
		(%)					

Q.59	The rate of transcription in a bacterium is 50 nucleotides/min and the average	
	molecular weight of an amino acid is 110 Da. Time taken for synthesis of the mRNA	
	of a protein with molecular weight of 110 kDa is min. (rounded off to one	
	decimal place)	
	Assume no abortive transcriptions and no sequences upstream of the start codon.	
	this listure of recting.	
	Chesar II.	
Q.60	Consider a first order reaction $A \rightarrow B$. The initial concentration of A is 100 mol L ⁻¹	
	and the value of first order rate constant is 0.01 min ⁻¹ . The concentration of A after	
	10 min of reaction is mol L ⁻¹ (rounded off to one decimal place).	S. Guwaliat.
ost fo	E Master's 1997.	
Admission Julia F	A.M. Organida Inst.	
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