Con. 3245-12.

KK-2591 (3 Hours) [Total Marks: 100 28/4/12

of the parts of a flower in	Of the West So the prestional arrangement
Full Name of Candidate:	(d) Sound prSituling
He I Wasan admining Statistics	contribute to Carpen Giave 2 (a)
Signature of Candidate:	e snegavela (d)
Cylingramon To networks	06 Which of the following is a qualitative

## Instruction to Candidates:

- Total Marks: 100
- Time duration: 03 hours and program and each purely double
- Section I consists of 40 multiple choice objective types of questions (all are compulsory) for which there is no negative marking
- Please mark "\" clearly on one of the four options (a, b, c, or d) of the Answers provided below each Question in Section I with Ink Pen only (not with Pencil)
- Section II consists of questions for which short answers are desired
- Section III consists of questions for which essay type long answers are desired
- Candidates are expected to return the Question Paper along with the Answer Paper to the Supervisor before leaving the Examination Hall.

## noine illulaga to elemana nA (b) To eco SECTION I

No.	Question/ Answers  The common disaccharide sucrose contains which of the following monosaccharides?						
01							
	(a)	Glucose and Fructose	(c)	Glucose and Mannose			
	(b)	Clucose and Galactose	(d)	Glucose only			
02	The chemical groups on the surface of an antigen against which antibodies are produced are referred to as:						
	(a)	Complimentary sites	(c)	Antigenic determinants			
1 5911	(b)	Lymphokines	(d)	Reagins			
03	Whi	Which one is a C4 Plant?					
	(a)	Papaya	(c)	Potato			
	(b)	Pea Bedahargeb mumix	(d)	Maize/ Corn			
04	Based on the number of species, which is the largest Phylum of the Anima Kingdom?						
	(a)	Arthropoda	(c)	Mollusca			
	(b)	Protozoa	(d)	Chordata			

TURN OVER

What is the positional arrangement of the parts of a flower in the bud 05 called? Aestivation (a) (c) Pattern Elevation (d) Topology (b) Which of the following is a qualitative character of community? 06 Physiognomy Density (c) (a) Dominance (d) (b) Frequency Which tissue does the megaspore mother cell originate in? 07 Tapetum Todas Endosperm (c) (a) Synergids Nucellus (d) (b) In an immunoglobin, L chain is attached to H chain by: 08 Disulphide bonds Hydrogen bonds (c) (a) Hydroxyl bonds Covalent bonds (d) (b) Ring Test in Serology is: 09 (a) Used to quatitate particulate (c) Used to determine allergen sensitivity antigen An example of agglutination Used to detect the presence of (d) (b) soluble antigens Test Eukaryotic transcription requires 10 Enhancer, Transcription RNA polymerase (c) (a) factors All of the above (d) (b) Promoter Multicoloured Maize is produced due to 11 Insertions Transposons (c) (a) Duplication Deletions (d) (b) Cold-Aglutinin Test is employed for the detection of antibodies to: 12 Mycoplasma Chlamydiae (a) (c) Adeno Virus Epstein Barr Virus (d) (b) During composting maximum degradation and stabilisation of organic 13 matter occurs during which stage? Cooling (a) Mesophilic (c) Thermophilic Starting (d) (b) Which of the following is not an antibody? 14 Precipitin (c) Agglutinin (a) Antitoxin Complement (d) (b)

1	15	The	membranous labyrinth is concern	ned wit	25 The concept of surd			
		(a)	Balancing	0	Balancing and Hearing			
		(b)	Hearing 556H (b)	Sound producing				
1	16							
		(a)	Photosynthesis (a)	©	Respiration			
		(b)	Fossil fuel combustion	(d)	All of the above			
1	17	Whi	lates in Phenylketonuria?					
		(a)	Pyruvate Political TS					
		(b)	Tyrosine (3)	(d)	Alanine 2011 (a)			
	18	At p	resent, maximum greenhouse con	ntribut	ion to Earth's temperature is by			
ityls	ins i	(a)	CFCs of as been at wal doi:	0	H <sub>2</sub> Ondompos at 80			
		(b)	CO <sub>2</sub>	(d)	CH <sub>4</sub> \aupmost			
	19	Fried Egg colonies are seen in the culture of						
		(a)	Mycoplasme	0	Leptospira			
		(b)	Haemophilus	(d)	Chlamydiae			
	20	N-linked oligosaccharides in Glycoproteins are covalently linked to protein through						
		(a)	Lysine and climat same and of ag	0	Asparagine 2011 08			
		(b)	Serine Serine (2)	(d)	Threonine (8)			
	21	Which of the following statements is false?						
		(a)	Valine has a hydrophobic chain (2)	0	Proline is an amino acid			
		(b)	Serine has hydroxyl group in its side chain	(d)	Lysine has a negatively charged side chain			
	22	The state of the s						
		(a)	a point	0	a pair of two distinct lines			
		(b)	a circle	(d)	a pair of coincident lines			
	23	Botulinum is a powerful						
		(a)	Haemolysin	©	Neurotoxin			
		(b)	Exfoliate toxin	(d)	Antitoxin			
	24	Threshold Limit Value (TLV) for a pollutant is normally mentioned exposure of						
		whose representation		TO DEPOSIT TO	Delicate Person in the Control of th			
		(a)	One hour per day	0	12 hours per day			

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25	The concept of survival of the fittest was first given by more of [7]						
But	(a)	Spencer	©	Oparin Balan qiraqO			
	(b)	Darwin Buo2 (b)	(d)	Haeckel			
26	Which of the following is Pythagorean triplet?						
	(a)	(1,1,1) (C Respir(1,1,1)	(c)	(4,5,6)			
	(b)	(3,4,5) OHA (b) BO	(d)	None of the above.			
ufa?		ompounds accumulates in Phanyl					
27	Which physical property allows lipids to form membranes?						
	(a)	Flexibility A (b)	(c)	High reactivity			
ature i	(b)	Amphipathy and humon seconds	(d)	Binding to proteins			
28	In spectrophotometry, which law is used as the basis of this analytical technique?						
	(a)	Kirchoff's Law	(c)	Fleming's Law			
	(b)	Beer's Law	(d)	Markonikow's Law			
29	Whi	ch of the following is not a Green	nouse	gas?			
si besir	(a)	Carbon-di-oxide	(c)	Carbon Monoxide			
	(b)	Nitrogen	(d)	Nitrogen			
30	The curry leaf plant belongs to the same family as:						
	(a)	The Mango	(c)	The Periwinkle			
	(b)	The Orange Coelai ai amometat	(d)	The Mahogany Tree			
31	Triploidy is seen in Spidorlgonbyd a sed zaday (6)						
	(a)	Grapes	(c)	Watermelons			
lagan	(b)	Tomatoes (b) ni goong I	(d)	All of the above			
32	RNA Polymerase I is required for transcription of						
	(a)	rRNA Gene	(c)	tRNA Gene			
SMILE.	(b)	DNA Gene	(d)	All of the above			
33	Plague is caused by						
	(a)	Yersinia	(c)	Pasteurella			
	(b)	Frasnscisella	(d)	Edwardsielła			
34	The Blood Group "AB" is expressed by						
bono	(a)	Recessive Genes	(c)	Dominant Genes			
	(b)	Co-dominant Genes	(d)	None of the above			
35	Top	piary is a term used for:	rol-	or second scholar (a)			
	(a)	Growing bees	(c)	Channeling water			
O MAI	-	Sculpting plants into exotic shapes	(d)	Afforestation			