

PURBANCHAL UNIVERSITY Gothgaun, Morang FACULTY OF SCIENCE & TECHNOLOGY

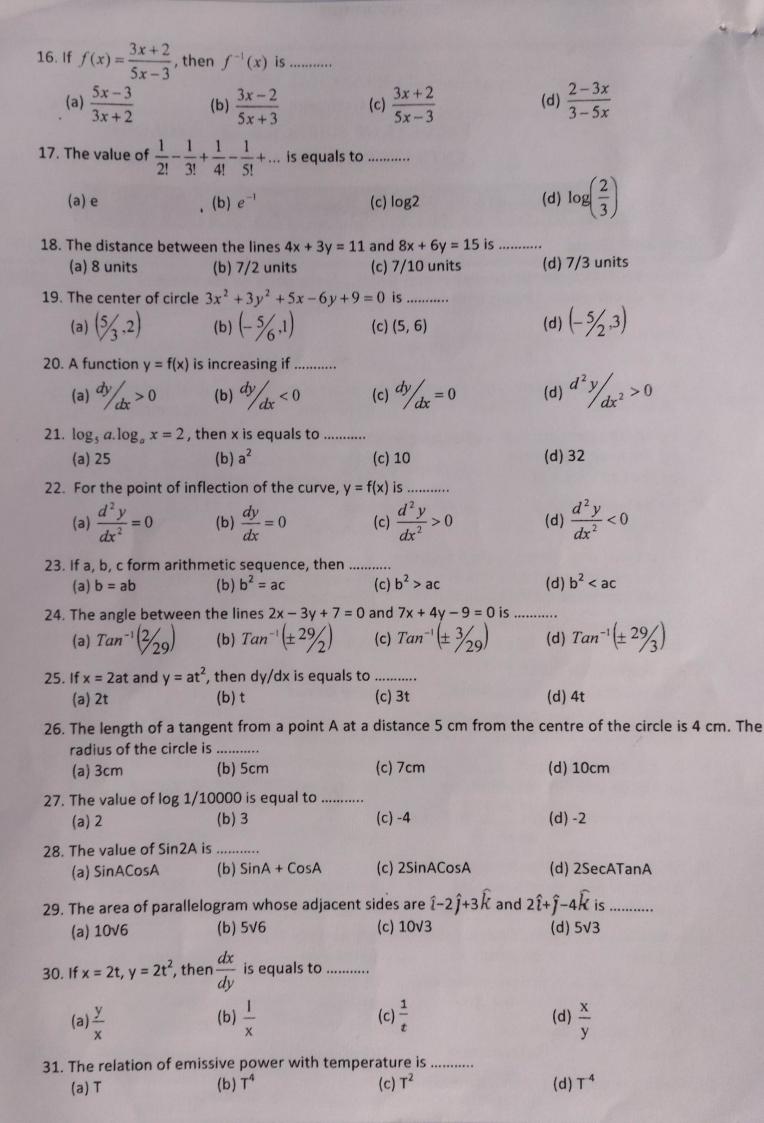
Entrance Examination's Model Questions-2078

B.Sc. (Hon.) Ag. / B.Sc. Forestry / B.V.Sc. & A.H. / B.Sc. Biotechnology / B.Tech. Biotechnology / B.Tech. Food Technology

Time: 2:00 Hours Total Marks: 100

Choose the most appropriate answer and <u>DARKEN</u> the circle on the attached <u>ANSWER SHEET</u>. Answer all questions. All questions carry equal marks.

1.	Where will g	o from here?		
	(a) you	(b) us	(c) me	(d) them
2.			ause, we place a (c) full stop	in the middle. (d) comma
3.	Identify the sentence (a) The small dog bar (c) She had a red sca		djective. (b) We had chocolate mi (d) Can we play volleybal	
4.	But he found a friend (a) need	1in his difficult (b) for	hour. (c) in need	(d) ought to
5.	My parents cook dinner. Make it negative. (a) My parents didn't cook dinner. (c) My parents doesn't cook dinner.		(b) My parents don't cook dinner.(d) My parents will not cook dinner.	
6.	I arrived clas (a) at	s on time. (b) on	(c) in	(d) about
7.	I'm worried, and (a) you are also		(c) so do you	(d) you too
8.	I have problem. (a) the	Can you help me? (b) an	(c) a	(d) No article
9.	I'm not frightened, a (a) nor are you		(c) you either	(d) not either you
10.	Children are the delig	ght the house. (b) of	(c) to	(d) with
11.	Which of the following (a) He may help me (c) Who has created		(b) He is known to all. (d) Someone stole my ba	ag.
12.	Everyone the (a) enter	building was searched (b) entered	by the police. (c) entering	(d) enters
13.	UAE is	prosperous country. (b) The, a	(c) A, an	(d) The, the
14.	I should like tom (a) swim	orrow. (b) swimming	(c) to swim	(d) swum
15.	Would you please (a) lending	me your pen? (b) lent	(c) lend	(d) to lend



32. When a gas undergo (a) decreases	es adiabatic expansion (b) increases	, its internal energy (c) remains the same	 (d) None of these	
33. The mass of a substate (a) electric current		lectrolysis in a given time (c) power	depends upon (d) temperature	
34. In stable nuclei, the	relation between the r	number of neutrons (N) a	nd the number of protons (Z) is	
	(b) $N > Z$	(c) $N=Z$	(d) $N \geq Z$	
35. The efficiency of Car (a) working substan (c) temperature of	ice	(b) temperature of sour (d) temperature of both		
36. The photoelectric e	ffect on metal occurs o	only when frequency of th	e incident light is more than its	
(a) stopping potent (c) critical field	ial	(b) threshold frequency (d) work function		
	s accelerated through a	potential difference of 1.	6×10^5 V, it acquires an energy	
of (a) 10 ⁻²⁴ J	(b) 10 ⁻¹⁴ J	(c) $2.56 \times 10^{-14} \text{ J}$	(d) $1.6 \times 10^5 \text{ J}$	
	ntum of a body of mom	nent of inertia I is L. Its kin	etic energy is	
(a) $\frac{L^2}{I^2}$	(b) $\frac{L}{2I}$	(c) $\frac{L^2}{2I}$	(d) $\frac{1}{2}IL^2$	
39. Ball pen functions (a) Viscosity	on the principle of (b) Boyle's law	(c) Gravitational force	(d) Surface tension	
40. The temperature of (a) 25 °F	f a body rises by 25 °C. (b) 45 °F	The increase on Fahrenhe (c) 100 °F	it scale would be (d) 180 °F	
41. Three different cap (a) they will have e (c) both a & b	pacitors are connected in equal charges	(b) they will have same potential (d) None of these		
42. An electric field ca (a) γ-rays	n deflect (b) α - particles	(c) neutrons	(d) X-rays	
43. In a compound mid (a) virtual, erect and (c) real, erect and		iate image is (b) real, inverted and m (d) virtual, erect and re		
44. SI unit of surface in (a) V	ntegral of electric field (b) Vm	is (c) NC ⁻¹ m	(d) Cm ⁻³	
45. In radioactive elen	nent, β rays emit from . (b) outer orbit	(c) inner orbit	(d) None of these	
(a) collisions of th (b) collisions of th (c) reactions of th	ted by a gas in a contain e gas molecules with ea e gas molecules with th e gas molecules to give y on the gas molecule	ach other ne wall		
47. What makes the a (a) Number of uni (c) Wave nature of		(b) Quantum number (d) Presence of isotope	es	

48.	In the reactio (a) Oxidizing	in, $H_2S + C$ agent (Cl ₂ = 2HCl +S, H ₂ S acts b) Reducing agent	as (c) Bleaching agent	(d) Analysing agent
49.		h zero ele d Carbon	ectro negativity are		
50.	(a) Oxygen a (b) Hydroger	nd heavi n and hea sotopes o	pound ofer isotopes of hydrogorier isotopes of oxygor hydrogen and oxygor	gen	
51	Petroleum is (a) Alkanes		xture of mainly (b) Alkynes	(c) Alkenes	(d) Alkyl halides
52			r titration of NH ₄ OH (b) Phenolphthalein	and CH ₃ COOH is	(d) None of these
53	3. Which has n	naximum	first ionization energ	gy?	
	(a) C		(b) N	(c) B	(d) O
54	4. Heavy wate (a) H ₃ O	r is repre	sented as (b) T ₂ O	(c) D ₂ O	(d) H ₂ O ₂
5.	5. Which of th (a) MgO	e followi	ng oxides is amphote (b) Fe ₂ O ₃	ric? (c) ZnO	(d) Cr ₂ O ₃
5	be	nl M-H ₂ S			ution, the resulting solution will
5	(a) Acidic	t of sad	(b) Alkaline	(c) Neutral	(d) Strongly alkaline are one liter of N/10 sodium
,	carbonate s			yurous required to prep	are one liter of N/10 Soulding
	(a) 10.6 gra	ams	(b) 5.3 grams	(c) 10.3 grams	(d) 12 grams
5	8. 280 ml of d	lry hydro	gen gas is displaced b	by 5.95 g of unknown meta	I, the equivalent weight of metal
	(a) 9.2		(b) 12.23	(c) 23.8	(d) 31.75
5	9. In defining (a) Force	Charle's	law, the quantity wh (b) Pressure	ich remains constant is (c) Temperature	(d) Volume
6	0. Which one	will have	the highest 2nd ion	ization energy?	
	(a) $1s^2 2s^2$	$2p^63s^1$	(b) $1s^2 2s^2 2p^4$	(c) $1s^2 2s^2 2p^6$	(d) $1s^2 2s^2 2p^6 3s^2$
6	(a) Calcium (c) Sodium	n chloride	9	does NOT cause hardness i (b) Magnesium chlorid (d) Magnesium sulpha	le
6	2. Isopropyl a (a) Aceton		n oxidation gives whi (b) Acetaldehyde	ch of the followings? (c) Ether	(d) Ethylene
6	3. Chlorinatio (a) Substit		nes is an example of (b) Elimination	(c) Free radical	(d) Addition
8	64. An elemen (a) s-block		nic number 29 belon (b) p-block	gs to (c) d-block	(d) f-block
	55. In the prep	paration		ne chemical reaction involv	ing hydrogen in the presence of
	catalyst is (a) Reduct		(b) Hydrogenation	(c) Dehydrogenation	(d) Oxidation

66. Branch of biology w (a) Cytology	hich deals with the stud (b) Genetics	dy of inheritance of char- (c) Evolution	acters is called (d) Anatomy
57. Symbiotic relationsh (a) Mycorrhiza			(d) Lichens
58. When stamens are a (a) Epiphyllous	attached with petals, it (b) Episepalous	is called as (c) Epipetalous	(d) Gynandrous
69. Pappus is a modifica (a) Corolla	ition of (b) Androecium	(c) Calyx	(d) Gynoecium
70. On fertilization, the (a) Seed	secondary nucleus form (b) Endosperm	ns (c) Embryo	(d) Cotyledons
71. Oxysomes are found (a) Chloroplast	d in the (b) Mitochondria	(c) Nucleus	(d) Ribosomes
72. The nucleus was firs (a) Robert Hooke	st identified by (b) Nerenberg	(c) Robert Brown	(d) Hargobind Khorana
73. Cell organelle which (a) Chloroplast	n has electronic transpo (b) Mitochondria	rt system (ETS) is (c) Centriole	(d) Golgibodies
74. In plants, the food i (a) Collenchyma		(c) Sclerenchyma	(d) Parenchyma
(a) Monocot roots	nypodermis is found in . (b) Dicot stems		(d) Gymnosperm stems
76. Penicillin was disco (a) Robert Koch	(b) S. Waksman	(c) Alexander Fleming	(d) C. J. Alexopoulos
77. Carrier of oxygen in (a) Plasma	(b) Haemoglobin	(c) Lymphocytes	(d) Leucocytes
78. Pyramid of energy i (a) Inverted (c) Upright	S	(b) First upright then inv	
79. The smallest nation (a) Chitwan Nation (c) Bardia National		 (b) Rara National Park (d) Shivapuri National Pa	ark
80. Mitosis takes place (a) Haploid Cell (c) Diploid Cell		(b) Both Haploid and Dip (d) Reproductive Cell	
81. What is the functio (a) Cell's shape (c) Protein synthes		(b) Cell's size (d) Transmit hereditary (characters
(a) Denitrification	(b) Ammonification	ospheric nitrogen convert (c) Ozonization	s into nitrates? (d) Nitrogen fixation
(a) cytosine	which is absent in DNA is (b) thymine	(c) uracil	(d) guanine
(a) rhizoid	tive part of prothallus is (b) archegonia	(c) antheridium	(d) sporangia
85. Study of fishes is ca (a) Ethology	(b) Ornithology	(c) Phenology	(d) Ichthyology

8	6.	What is the virus four (a) Arbo virus	nd in tobacco? (b) Tobacco mosaic vir	us (c) Leaf virus	(d) Quantum virus
8	7.	Which plant has no s (a) Fern	eed coat? (b) Pinus	(c) Cycas	(d) Both b and c
8	8.	Vegetative part of m	ushroom consists of (b) pilus	 (c) stiple	(d) All of these
8	9.	Which is the gameto (a) Archegonium		(c) Prothallus	(d) Zygote
9	0.	Which organ secrete (a) Liver	insulin? (b) Pancreas	(c) Kidney	(d) Spleen
9	91.	Which is not found in (a) Mesosome	n bacteria? (b) Capsule	(c) Nucleus	(d) Flagella
	92.	. In fungi, the food ma (a) Starch	aterial is stored in the fo (b) Fructose	orm of (c) Glycogen	(d) Sucrose
	93	. In plants, largest egg (a) Cycas	g is found in (b) Pinus	(c) Sequoia	(d) Selaginella
	94		nthesis is maximum in (b) Red light	(c) Far-red light	(d) Blue light
	95	i. Mitochondria are ab (a) Yeast	osent in (b) Bacteria	(c) Fungi	(d) Green algae
	96	6. How many pairs of v (a) Four	walking legs a spider has (b) Two	s? (c) Three	(d) Eight
	97	7. Four chambered he (a) Lizards	art is present in (b) Snakes	(c) Crocodiles	(d) Tortoises
	98	3. The longest cells in (a) nerve cells	human body are (b) bone cells	(c) leg muscle cells	(d) heart-muscle cells
	99	 Typhoid fever is cau (a) Giardia 	sed by (b) Salmonella	(c) Shigella	(d) Escherichia
	10	00. Who has coined to (a) Robert Grant	he phylum name 'Proto: (b) Goldfuss	zoa'? (c) Gegenbaur	(d) Lamarck