THE PROPERTY AND THE PR

PURBANCHAL UNIVERSITY

Gothgaun, Morang

Faculty of Engineering Entrance Examination's Model Questions-2078

(d) We brought the news for him.

BE (Civil / Computer / Electrical / Electronics, Communication & Automation / Geomatic) / B. Arch.

Time: 2:00 Hours

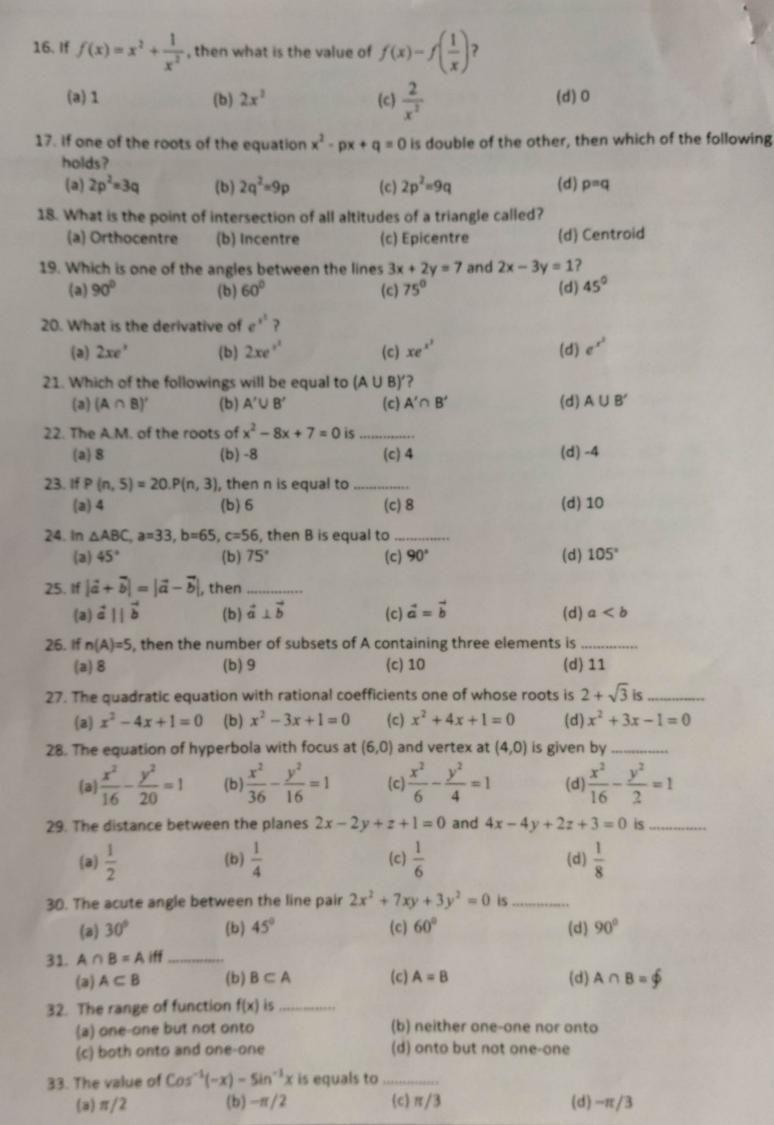
Choose the most

Total Marks: 100

SHEET.

Ans	swer all questions. A	Il questions carry equa	<u>RKEN</u> the circle on the al marks.	attached ANSWER
	The oncologist studie	ed the result of the biop	sy and decideda (c) he should ordering	ddition at first. (d) ordering
2.		me the money, I		
3.	He must dispense (a) of	his services.	(c) at	(d) in
4.	My father is not only (a) a business	the town mayor, he ru (b) a piece of business	ns too.	(d) some business
5.	'Speak the truth '. Th	ne passive isto speak the truth		en
6.	How many syllables (a) 6	are there in the word "I (b) 5		(d) 3
7.	Which of the followi (a) full stop	ng is not a punctuation (b) hash tag	mark? (c) comma	(d) colon
8.	We got our house (a) decorate	for the party by N (b) decorated	Mary. (c) decorating	(d) to decorate
9.	Mary's parents didr (a) go	n't let her out las (b) gone	t night. (c) to go	(d) going
10	. The prefix "non" go (a) talented		(c) injurious	(d) belief
11	Chinese la (a) An	anguage is difficult. (b) A	(c) The	(d) None of these
12	. Neither of workers (a) were they	was happy with the dec (b) weren't they	cision,? (c) was they	(d) wasn't they
13	. My fingers were inj (a) with	ured so my sister had to	o write the notes	
14	. I have a Buddha sta (a) They	atue at home bro (b) It was		
15		brought to us by him		(d) Itself he news.

(c) He was brought the news to us.



34. If a, b, c are in A.P., t (a) A.P.	hen 1/bc, 1/ca, 1/ab ar (b) G.P.	e in (c) H.P.	(d) A.P. – G.P.
35. Difference of slopes (a) $p = 12$, $q = 1$	$12x^2 + 7xy - py^2 - 18x +$ (b) p =1, q = 1	qy + 6 = 0 is (c) p = -1, q = 12	(d) p = 1, q = -12
(a) 13	(b) 1/3	y = 0 and $5x + 12y - 39 = 0(c) 3$	(0) 12
37. If the projections of (a) 12	a line segment on the o	coordinate axes are 5, 4, 3 (c) $7\sqrt{2}$	3, then its length is(d) $5\sqrt{2}$
38. The derivative of Sin (a) –Tan x ³	x ³ with respect to Cos (b) -3x Cot x ³	x ³ is (c) x Cot x ³	(d) –Cot x ³
39. $\int e^{-\log x} dx$ is equal (a) $e^{-\log x} + C$	l to (b) log x + C	(c) $-1/x^2 + C$	(d) $-x^2/2 + C$
40. Let a and b are tw	vo unit vectors and α be	e the angle between then	n. If $\vec{a} + \vec{b}$ is a unit yector, then
α equals(a) $\pi/4$	(b) π/3	(c) π/2	(d) 2π/3
41. The quantity which (a) a vector quantit	has only magnitude is c y (b) a scalar quantity	alled (c) a chemical quantity	(d) a magnitude quantity
(a) 0	(b) 1	of their slopes is (c) -1	(d) None of these
43. How many terms of	the series 64+ 32 + 16 (b) 8	++t _n must be taken s (c) 10	o that the sum may be 255/2? (d) 12
44. What is the magnitude (a) It has no magnitude (c) Constant but no	cude	(b) Zero (d) Unity	
45. For maxima and mi		e is equal to (c) 2	(d) 3
46. If the ordered pairs (a) x = 2, y = 1	(x+y, 1) and (2, 2x-y) ar (b) x = 1, y = 1	e equal, then (c) x = 1, y = 2	(d) x = 2, y = 2
47. The solution of $ 2x $	+3 = 5 are		(d) -1, -4
(a) 1, 4	(b) -1, 4	(c) 1, -4	(u) -1, -4
48. If a, 4, b are in A. P. (a) A. P.	(b) G. P.	(C) H. P.	(d) No relation exists
49. The sum of the root		x - 6 = 0 is	(d) 0
(a) -1	(b) 2	(c) 5	
	I on the rim of which a	n arc 12π cm long is subt	ended by a central angle of 36
is (a) 30 cm	(b) 40 cm	(c) 50 cm	(d) 60 cm
51. The following four p	(b) Proton	(c) Deuteron	has maximum kinetic energy? (d) α -particle
52. A force acts on a bo	dy in the direction of m	notion. The kinetic energy (c) remain the same	of body will(d) None of these
(a) increase	(b) decrease	es with a velocity v, the p	ower will be
53. If a force F is applie (a) $F \times v$	(b) F/v	(c) F/v2	(d) $F \times v^2$

(a) F × v

54. Angle of friction and an	ngle of response are		· /
(a) equal to each other		(b) not equal to each other (d) None of these	
friction?	s required to pull a b	ody weighing 1 kg over i	ce. What is the coefficient of
(a) 0.01 (I	b) 0.1	(c) 1	(d) 10
56. Specific heat of a body (a) mass of body (c) amount of heat su		(b) rise of temperature (d) None of these	
57. The r.m.s. speed of a g (a) directly proportion (b) inversely proportion (c) inversely proportion (d) None of these	nal to T		
58. If the temperature of (a) increases (c) remains constant		ed, the efficiency of a Carn (b) decreases (d) first increases and the	
		quantity that remains unc	
60. A convex lens of foca of resulting lens will (a) 1 D		oncave lens of focal length (c) 0.5 D	1 m are combined. The power (d) -0.5 D
		fectly elastic body is	
(a) Infinity	(b) 0	(c) 1	(d) -1
62. Rain drops fall with ((a) gravity	constant speed due to (b) surface tension		(d) shape
1,0			ravity of the body is(d) 5
64. If the temperature of (a) 232 °F	of a body in Celsius sca (b) 312 ⁰ F	ale is -40°C, then its tempe (c) -40 °F	rature in Fahrenheit scale is (d) -20 ^o F
65. The electric lines of (a) convergent	force in uniform elect (b) divergent	ric field are (c) parallel	(d) circular
66. Laplace correction to (a) Isothermal process (c) Isochoric process	ess	d of sound follows(b) Adiabatic process (d) Isobaric process	
67. Phon is a unit of (a) frequency	(b) intensity	(c) amplitude	(d) loudness
68. If a ray cannot be p (a) sound wave	oolarized it may be (b) light wave	(c) heat wave	(d) X-rays
69. High frequency cap (a) more resistance	oacitors offere (b) less resistance	(c) zero resistance	(d) None of these
70. The constituents o	(b) udd	(c) ddd	(d) uuu
71. A person on a mov (a) accelerating (c) moving at cons		n upward and if it falls beh (b) decelerating (d) retarding	nind him then the train is

72. If a lift of mass 500kg	moves upward with th	ne acceleration 2m/s2, th	e tension is
(a) 5400	(b) 5800	(c) 6000	(a) 6200
73. A body thrown up wi (a) 200m	th the velocity of 50m/ (b) 250m	s, maximum horizontal o (c) 300m	listance it can cover is (d) 400m
74. The energy density of (a) S ² /2Y	(b) S ² Y/2	(c) 25 ² Y	(d) 2Y/S ²
75. The pendulum of clo per day will it lose at (a) 12.3 sec	ock is made up of brass. $135 ^{\circ}\text{C}$ (α brass = 2×10^{-5} (b) 26.9 sec	If clock keeps correct tine ${}^{\circ}C^{-1}$)? (c) 34.6 sec	ne at 20 °C, how many second (d) 49.2 sec
76. At constant T, graph (a) straight line	(b) parabolic	(c) ellipse	(d) circle
(a) 90°	(b) 60°	ism of angle 60° which h (c) 45°	(4) 30
78. Velocity of sound is (a) 350 cm	330 m/s. The length of (b) 240 cm	closed organ pipe having (c) 500 cm	fundamental 16.5 Hz is (d) 380 cm
(a) 1 m/s	(b) 0.6 m/s	ity of sound increased by (c) 0.4 m/s	(0) 0.1 111/3
the wire A is twice	es A and B are of equal that of B and are connec	length and of same mat cted in series with a batte	erial. If area of cross section of ery, then the ratio of p.d. acros
A to B is	(b) 0.5	(c) 1	(d) 2
81. The solubility of gas (a) Nature of gas	ses in water depends on (b) Pressure of gas	(c) Both a and b	(d) None of these
(a) five	tion of Epsom salt is (b) six	(c) seven	(d) eight
83. The total number of (a) 2l+ 1	of electrons in sub-shell (b) I ²	having azimuthal quantu (c) 4l+2	m number 'l' is (d) l+1
(a) C ₂ H ₂	ving molecules is formed (b) C_2H_4	(c) C ₂ H ₆	(d) None of these
85. The compound that (a) BeCl ₂	t is not Lewis acid is (b) AICl ₃	(c) BCl ₃	(d) SnCl ₄
86. Mohr's Salt is (a) FeSO ₄ .7H ₂ O (c) FeSO ₄ .Al ₂ (SO ₄) ₃	.2H ₂ O	(b) Fe(NH ₄)SO ₄ .6H ₂ O (d) FeSO ₄ .(NH ₄) ₂ SO ₄ .6H	I ₂ O
(a) high temperatu (c) high temperatu	ure, high pressure	(d) low temperature, lo	
88. The number of unit	paired electrons in Cr ⁺⁺⁺ (b) 2	(c) 3	(d) 1
(a) Cl	followings has the large: (b) Cl	(c) Br	(d) Br
90. Most abundant ele (a) O	ement on earth is (b) Si	(c) Al	(d) Ca

91	Water softeners are	used accommen			
	(a) to remove the impurities of water (c) to remove the hardness of water		(b) to increase conductivity (d) to decrease conductivity		
92	The H-O-H bond ang	gle in a water molecula (b) 105°	e is about (c) 135°	(d) 180°	
93	25 cc of an alkali sol acid, the normality of		cc of 0.75 N acid which fu	orther required 20 cc of 0.8	
	(a) 2	(b) 1.3	(c) 0.94	(d) 0.47	
94			equation reduces to		
	(a) PV = RT	(b) $PV = RT + a/v$	(c) $PV = RT + Pb$	(d) $PV = RT - a/V^2$	
	(a) Number of protons + Number of electrons (b) Number of protons + Number of neutrons (c) Number of neutrons + Number of electrons (d) Number of electrons				
96	Which of the following (a) CO ₂	ings is not a reducing a	agent? (c) NO ₂	(d) CIO ₂	
97	. Which of the following (a) Atomic mass		the modern periodic table (c) Number of neutrons		
98	In the third period o	f the periodic table, th (b) Ar	ne element having smallest (c) CI	size is(d) Si	
99	Formic acid is also call (a) Methanoic acid	alled (b) Ethanoic acid	(c) Carboxylic acid	(d) Acetone	
10	0. In which of the fol	lowings, functional gro	oup isomerism is not possib	ole?	
	(a) Alcohols	(b) Aldehydes	(c) Alkyl halides	(d) Cyanides	