

# POKHARA UNIVERSITY SCHOOL OF ENGINEERING Pokhara-30, Kaski, Nepal B.E. Entrance Examination-Model (Fee Paying)

Name:	
Registration/Roll No:	
Question Book No: XXXX	

#### Instructions for examinee

- 1. Students are not allowed to enter the examination hall after 15 minutes of commencement.
- 2. Use **separate answer sheet** provided to **TICK** ( $\sqrt{}$ ) on the correct option for a respective question using only **ball pen** or **fountain pen**. **Pencil ticks will be invalid**. **More than one answers for a question will be invalid**.
- 3. Answers marked by tick  $(\sqrt{})$  on the question sheet will not be considered.
- Candidates can scribble on the question booklet for their use. The examiner may not look at it.
- 5. Candidates must put his/her admission card on the desk.
- 6. Candidates are not allowed to leave the examination hall within one hour from the commencement.
- 7. Use only scientific calculators (Programable calculators are not allowed).
- 8. Candidates are **strictly prohibited** to bring materials like programmable calculator, smart phones/devices, camera and other memory devices in the examination.
- 9. Any form of misconduct on the part of examinee shall result in the cancellation without warning.
- 10. Candidates **must follow** the assigned seat plan in the examination hall.
- 11. Any form of misconduct or incriminating activities found during or after examination shall result in the **cancellation** of his/her entrance examination without any warning.
- 12. Return your question book and the answer sheet before leaving the examination hall.

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All questions carry equal marks.

# POKHARA UNIVERSITY FACULTY OF SCIENCE AND TECHNOLOGY SCHOOL OF ENGINEERING Pokhara-30, Kaski, Nepal



Full Marks: 100

Time: 02:00 Hrs

# **MODEL QUESTION PAPER (B.E. Entrance Examination)**

Choose the correct answer and tick  $(\sqrt{})$  on the attached Answer Sheet.

Nam	e:				Entrance Roll No.:							
				Group A: Mathemat	tics [4	0x1=40 1						
				*		-						
1.	The	relation R defined by x+:	5y=10	on the set of integers Z	is							
	A	Symmetric	В	Non symmetric	C	Anti-symmetric	D	Equivalence				
	1											
2.	Whi	ch of the following sta										
	A	$\phi = \{0\}$	В	$\phi = \{,\}$	C	$\phi = \{\phi\}$	D	$\phi = \{\phi, \{0\}\}\$				
	1											
3.	The	domain of the function	on f(x)	$=\frac{1}{\sqrt{x^2-3x+2}}$ is								
	A	$(-\infty,1)\cup(1,\infty)$	В		C	$(-\infty,1)$ U $(2,\infty)$	D	$(2,\infty)$				
	1											
4.		A has 3 elements ad set					1 -					
	Α	3	В	6	C	9	D	0				
5.		re are 15 persons in a p	arty a	and each person shakes	s hand	with another. Then	the t	otal number of hand				
	Α	205	В	105	C	120	D	15				
6.	-7 <x< td=""><td>x&lt;1 implies</td><td></td><td></td><td></td><td></td><td></td><td></td></x<>	x<1 implies										
	A	Ix+3I<4	В	Ix+3I>2	C	Ix-3I<2	D	Ix+3I<1				
7.	The	sum of n natural numb	ers is	36 then the value of n	is is							
	A	10	В	11	C	8	D	12				
8.	If A	is a square matrix, the	n (A+	(A <sup>T</sup> ) is a			1					
	A	Diagonal matrix	В	Scalar matrix	C	Skew-symmetric matrix	D	Symmetric matrix				
	1											
9.	The	sum of the series $5 + \frac{5}{2}$	$\frac{2}{2} + \frac{5}{4}$	+ to ∞ is,								
	A	$\frac{1}{2}$	В	Does not exist	С	15	D	10				

_								
10.	T.	$\left(-1+\sqrt{3}i\right)^{3n}$	$\left(-1\right)$	$(-\sqrt{3}i)^{3n}$				
	The	value of $\left(\frac{-1+\sqrt{3}i}{2}\right)^{3n}$ +	$\lfloor - \rfloor$	$\frac{1}{2}$ equals to				
	A	0	В	1	С	3	D	2
				I			-	I
	Let	$\alpha$ and $\beta$ are the roots of	f qua	adratic equation $ax^2 + a$	bx + a	c = 0 then the roots	of th	ne equation
11.		$+bx(x-1)+c(x-1)^2 =$	_	<del>-</del>				•
		_		_		α , β		α , β
	A	$\frac{1}{1-\alpha}$ and $\frac{\gamma}{1-\beta}$	В	$\frac{1}{1+\alpha}$ and $\frac{\beta}{1+\beta}$	C	$\frac{1}{1+\alpha}$ and $\frac{\gamma}{1-\beta}$	D	$\frac{1}{1-\alpha}$ and $\frac{\gamma}{1+\beta}$
		<u>,                                      </u>		,		•		,
12.	In tr	riangle ABC the value of	$a^2si$	n2Cand c <sup>2</sup> sin2A is				
	A	2Δ	В	Δ	C	4Δ	D	16Δ
13.	The	ratio of the circum radiu	s an	d in-radius of an equila	teral			I
	A	3:1	В	1:1	C	$2:\sqrt{3}$	D	2:1
	I							
14.	In th	the triangle ABC, $\cos A$ is						I
	A	$\frac{c^2 + a^2 - b^2}{2ca}$	В	$\frac{a^2+b^2-c^2}{}$	$\mathbf{C}$	$b^2 + c^2 - a^2$	D	none of these
		2ca		2ab		2bc		110110 01 011000
15.	The	value of $\frac{1}{ab} + \frac{1}{bc} + \frac{1}{ca}$ is $\frac{1}{ab} + \frac{1}{ab} = \frac{1}{ab}$						
	A		В	1	С	_1	D	1
		$\overline{2Rr}$		2rs		$\overline{2Rs}$		2 <i>R</i>
1.0	TD1	6.1 1.1		(2.1)	1.0\	/ O 1 \ 1 / O 1		
16.		area of the quadrilateral			1 1			T
	A	18	В	19	C	21.5	D	25
17.	The	vertex of the parabola y=a	z2_1·	v ⊥ 3 ic				
1/.	A	(2,-1)	B	(0,0)	С	(2,0)	D	x=2
	1	(-, -)		(0,0)		(=,0)		
18.	The	major axis of the ellipse	$3x^2$	$+4y^2-12x+8y+4=0$				
	A	x=0	В	y=0	C	y-1=0	D	x-2=0
	1							
19.	The	distance between the par	ralle	l planes $2x-2y+z=1=0$	and 4	4x-4y+2z+3=0 is		
	A	2\3	В	1\3.	C	1\6	D	1\2.
20		• 4						
20.	If 1	$\lim_{x \to 0} \frac{\sin 4x}{\tan ax} = 5$ , then the v	alue	e of a is				
	A	4/5	В	5	С	1	of the equation $ \begin{array}{ c c c c c } \hline D & \frac{\alpha}{1-\alpha} \text{ and } \frac{\beta}{1+\beta} \\ \hline D & 16\Delta \\ \hline D & none of these \\ \hline D & \frac{1}{2R} \\ \hline D & x=2 \\ \hline D & x-2=0 \\ \hline $	
					. '			
21.		$\lim_{x \to \infty} \frac{2x^3 - 4x + 7}{3x^3 + 5x^2 - 4}$ is equal to	)					
				3		4	_	7
	A	$\frac{2}{3}$	В	$\frac{\overline{2}}{2}$	C	- <del>_</del> 5	D	<del></del>

22.	If y	$= \tan^{-1}(\sec x + \tan x) , tl$	nen t	he value of $\frac{dy}{dx}$ is				
	Α	1	В	1/2	С	cosx	D	secx
23.	$\int xs$	sinhxdx is equal to						
	A	xcohx-sinhx+c	В	xcohx+sinhx+c	С	-xcohx+sinhx+c	D	-xcohx-sinhx+c
24.	The	derivative of $f(x) = 1/x$ a	t the	point (1,1) is				
	Α	1	В	-1	С	2	D	-2
				<u> </u>				
25.	The	derivative of an even fu	nctic	on is always				
	A	an odd function	В	an even function	С	does not exist	D	none of these
	11	an odd function	עו	an even function		does not exist		none of these
26.	The	differential coefficient of	of log	g $\tan(\frac{x}{2} + \frac{\pi}{4})$ is				
	A	2tanx	В	sec x	C	$\cos(\frac{x}{\sin x})$	D	<u>sinx</u>
	7.1	Ztanx	D	Sec A		sinx '		2
27.		$\int lnxdx$ is						
	A	$xln\left(\frac{x}{e}\right) + c$	В	xlnx + c	C	$\frac{lnx}{x} + c$	D	$x ln\left(\frac{e}{x}\right) + c$
			1					
28.	The	value of $\int \left( \frac{2 + \sin 2x}{1 + \cos 2x} \right) e^{-\frac{1}{2}}$	x dx	is equal to				
	Α	e <sup>x</sup> secx+c	В	$e^{x}(1+\cos 2x)+c$	С	e <sup>x</sup> sin2x+c	D	extanx+c
			-	,				
29.	The	area bounded by the cur	ve v	$\frac{1}{2} = 8x \text{ and } x^2 = 8y \text{ is}$				
	A	16/3	В	64/3	С	32/5	D	8/3
	7.1	10/3		0 1/2		32,3		0/3
30.	The	differential coefficient of	of cir	n <sup>-1</sup> v with respect to (sir	-1 <sub><b>v</b></sub> ) <sup>2</sup>	ic		
50.		2sin <sup>-1</sup> x	В	$\frac{2}{x}$	C	2/xsin <sup>-1</sup> x	D	1/2sin <sup>-1</sup> x
	A	ZSIII X	D	<i>Z/X</i>	C	Z/XSIII X	ען	1/28III X
21		1						
31.	Wha	at is the value of $\int_{0}^{1} \sin^3 x$	cos <sup>2</sup>	xdx is equal to				
	***110	-1	COB	Nan 15 equal to				
	Α	zero	В	one	С	One and half	D	Two
		2010					-	1110
	The	area of an expanding rec	tano	le is increasing at the r	ate of	f 48cm <sup>2</sup> /sec. The len	oth of	the rectangle is equal
32.		ne square of its breath,, the						
	A	16 cm/sec	В	4 cm/sec	C	8 cm/sec	D	12 cm/sec
	4.4	15 0111/500	ر ا	. CIII, SOC				12 0111 500
	TC1	loacosx.						
33.	The	value of $\lim_{x\to 0} \frac{\log \cos x}{x}$ is eq	<sub>l</sub> ual 1	to				
	A	0	В	1	C	∞	D	-1
			1	1	1	1		
34.	The	value of $\vec{a}x(\vec{b} + \vec{c}) + \vec{b}x(\vec{a})$	$\vec{r} + \vec{n}$	$()+\vec{c}x(\vec{b}+\vec{a})$ is				
	A	$\vec{a}x(\vec{b}x\vec{c})$	В	0	С	$2(\vec{b} + \vec{c})$	D	$2(\vec{a}x\vec{b})$
	11	ux(DxC)	ע	U		2(U + C)	D	2(uxv)

35.	The	sum of two unit vector	s is a ı	unit vector then magni	tude	of their difference is	S	
	A	1	В	2	С	$\sqrt{2}$	D	$\sqrt{3}$
							-1	
36.		direction ratios of a li	ne pe	rpendicular to the two	line	s having direction 1	atios	s 1, 3, -2 and -2, 2, 4
	A	1, 2, -5	В	2, 0, 1	С	1, 3, 5	D	3, 1, -5
				, ,		, ,	-1	, ,
37.		$I=3$ , $I\vec{b}I=4$ and $I\vec{a}$						
	A	6	В	5	C	4	D	3
38.	The	probability of a sure ex	ent is					
50.	A	0	В	1	С	1/2	D	2
	A	U	Ъ	1	C	1/2	D	<u>L</u>
39.		e numbers are chosen num of the chosen num					, 10	)}. Probability that the
	7.1	3/10		11/10	10	11/50	12	27710
40.	If the	e roots of the equation	$\mathbf{p}^{2} \perp a$	v⊥r–0 are in the ratio	3·/ t	hen		
40.	A	$\frac{12p^2=49qr}{12p^2=49qr}$	$\frac{\mathbf{p}_{\mathbf{A}}}{\mathbf{B}}$	$4p^2 = 9rq$	C	12q <sup>2</sup> =49pr	D	7pq=12r <sup>2</sup>
	A	12p –49qi	Ъ	4p –91q	C	12q –49pi	D	/pq-121
				Cwayn D. Dhygiag	[20**	1_20.1		
				Group B: Physics	[JUX.	1=30 ]		
41.		mple pendulum 1 m hatic energy when it pass				hrough $60^0$ and then	rele	eased. What will be its
	A	0.5 J	В	1.0J	C	1.5 J	D	2.0J
	7.1	0.5 0	l D	1.03	C	1.5 5	ı D	2.03
42.		tellite is revolving arouse the time period of s			bit 4	times the radius of t	the p	arking orbit. What
	Α	2 days	В	4 days	С	16 days	D	None of these
	1	<b>,</b>	1 1			<b>,</b>	1	
43.		all is thrown vertically ne both at the highest p			istan	ce cannot be neglect	ed, t	hen the acceleration
	Α	g	В	>g	C	<g< td=""><td>D</td><td>0</td></g<>	D	0
							<u> </u>	
44.		o ping pong balls are steen balls .The balls	susper	nded near each other a	nd a	fast stream of air is p	prod	uced within the space
	A	Come closer	В	move farther	С	remain at original position	D	fall down
45.	A bu		e. If th	ne rifle recoils freely,	he ki	netic energy of the	rifle	as compared to that of
	A	Greater	В	Equal	С	Less	D	Nothing can be said
	<u>,  </u>	0144141	1				<u> </u>	
46.		the relation ( $P + a / V^2$ ) perature of a given mass				-	ne a	nd absolute
		or a 51 von illa	J. S	as, it is gus combunit.	11111			

	A	$(ML^2T^{-3})$	В	$(ML^5T^{-2})$	C	$(L^2)$	D	$(ML^{-1}T^2)$				
47.		emperature difference on	the	two sides of a wall inci	ease	es from 10 <sup>0</sup> C to 20 <sup>0</sup>	C, it	s thermal				
	A	ductivity  Remains unchanged	В	Is doubled	С	Is halved	D	Becomes four times				
l	Į.	3 3 3 3 3 3 3 3 3										
48.	The	temperature of sun is do	oubl	ed than heat energy inc	ider	nt on earth's surface	will	increase by a factor				
	A	16	В	4	C	8	D	2				
49.	The	charge in entropy of wo	rkin	g substance in Carnot's	cyc	ele is	ı					
	A	zero	В	Negative	С	positive	D	depend on temperature of source & sink				
50.	The is	graph between the object	et di	stance along x-axis and	the	image distance alon	g y-	axis for a convex lens				
	A	a straight line	В	a parabola	С	a circle	D	a rectangular hyperbola				
Į.	I							11)   010 014				
51.	1. When source and observer approach each other with half velocity of sound .the change in frequency detected by observer is											
	A	200 %	В	50 %	С	25 %	D	none of above				
52.	m? '	at is the distance at which Take the pupil of the eye $\kappa = 6000 \text{ A}$ 0.										
	A	4.1 km	В	8.2 km	С	2.0 km	D	12 km				
							•					
53.	Wha	at should be the refractiv	e in	dex of a completely tra	nspa	rent medium for it to	o be	invisible in vacuum?				
	A	Less than 1	В	1	С	Greater than 1	D	The medium cannot be invisible whatever the value of the refractive index				
54.	Dop	opler shift in frequency is	ind	ependent of			1					
	A	the frequency of wave produced.	В	the speed of source	C	the speed of observer	D	distance from source to observer				
55.		frequency of the third ha										
	A	First	В	Second	C	Third	D	None of these				
56.	If th	ne intensity of sound is do	oubl	e, then the loudness w	ill b	e increased nearly by	, ,					
50.	A	2 dB	В	3dB	С	5dB	D	4 dB				
I			<u> </u>			<u> </u>	1					
57.	The	materials suitable for ma	akin	g electromagnets shoul	d ha	ive						

	A	high retentivity and high coercivity	В	low retentivity and low coercivity	С	high retentivity and low coercivity	D	low retentivity and high coercivity
					•	<u> </u>		
58.		apacitor is charged from ave charge 10 μ C . The				_	suri	ng device and found
	A	$3 \times 10^{-3} \text{ J}$	В	2× 10 <sup>-5</sup> J	С	$2.5 \times 10^{-4} \text{ J}$	D	$4 \times 10^{-4} \text{ J}$
	•							
59.		o charges are placed a ce pen to the force between		<u>=</u>	allic	sheet is placed betv	veen	
	A	Increases	В	Decreases	С	Remains unchanged	D	May increase or decrease depends upon the nature of metal
60.		o concentric coils of each the current flowing in ea		*				
	A	12 x10 -5 wb/m2	В	5 x10 -5 wb/m2	C	10 -5 wb/m2	D	$7x\ 10 - 5\ wb/m2$
61.		niform wire has resistand two end points on any di			rm (	of a circle. The effec	ctive	resistance between
	A	$6\Omega$	В	12 Ω	C	3 Ω	D	$24 \Omega$
62.	If a	star is moving towards e	earth	, then the lines are shif	ted	towards		
	A	Red	В	Infrared	C	Green	D	Blue
63.	Whaton	at will be the ratio of the n?	tim	e periods of electron in	the	ground and first exc	ited	states of the hydrogen
	A	1/2	В	1/4	С	1/8	D	1/16
64.	In N	NPN transistor, the emitt	er cı	urrent is				
	A	Slightly more than collector current.	В	Slightly less than collector current	C	equal to collector current	D	equal to base current
65.		interval of time that elapses the meridian is called		between two consecuti	ve p	bassages of a fixed st	ar(o	ther than the sun)
	A	Mean soar day	В	Mean sidereal day	C	Mean solar year	D	Mean sidereal year
66.		motion with constant ac ance of 100m. the distan						nd after covering the
	A	Zero	В	250m	C	100m	D	500m
67.	A p	iece of red glass is heate		l it glows in dark. The c	olo	r of the glowing glas	s wi	ll be
	A	Red	В	Orange	C	Green	D	Violet
68.	If a	star is moving towards	earth		ted	towards		T
	A	red	В	infrared	C	green	D	blue.

69.	Aı	n air filled parallel plate	cond	denser has a capacity of	2pF	. The separation of	the p	plates is doubled and			
	th	e interspace between the	plat	es is filled with wax. If	the	capacity is increased	d to	6 pF, what is			
	di	electric constant of was									
	A	2	В	3	C	4	D	6			
70.	70. What is the magnification when the object is placed at 2f from the pole of a concave mirror										
	Α	1/3	В	2/3	C	1	D	3/2			

## **Group C: English [10x1=10]**

71.	Affl	luent						
	A	Purpose	В	Spoken	С	Educated	D	Wealthy
	•							
72.	The	environmentalists have	no p	olitical axe to grind – t	hey	just want to save the	plar	net
	A	To fail to arouse interest	В	To have a strong personal opinion for doing something	С	To have no result	D	To work for both side
73.	Plea	ase give me your pen and	l tak	e your seat.				
	A	Let your pen given me and take your seat.	В	You are requested to give me your pen and take your seat.	С	You are wanted to give me your pen and wanted to take your seat.	D	You are ordered to give me your pen and take your seat.
74.	The	children of the man who	) WC	orks with me		broken the win	dow	this morning.
	Α	A. Were	В	Has	С	Had	D	Have
75.	mor belo Wh	e presence of sugar in the re insulin is released into ow-average levels of insulich of the following, if a cribed above?	the Ilin i	body. Yet those who re in their blood.	gula	rly consume large an	nour	nts of sugar often have
	A	The more overweight a person is, the lover the level of insulin in that person's blood.	В	Though considered healthier diet choices, many fruits contain as much sugar as candy does.		Consuming large amounts of sugar causes the receptors that trigger the release of insulin to become less	D	Consuming large amounts of processed sugar can be much more dangerous than sugar found naturally in foods.

Which of the following most logically completes the argument?

76.

Patent law exists to protect the rights of inventors to profit from their innovations, and copyright laws to protect those of artists from their art. While a chef who creates a new recipe might seem a similar case, a recipe is not a work of art, not is it an innovation, so neither law protects the rights of a chef to profit from an original recipe. Thus, chefs' rights to profit from new recipes will never be protected by the law, since

	A	Chefs lack the social capital and economic clout to convince judges to throw these	ic B	c B copyright and patent law systems that currently protect C		mod	t recipes are ifications of evious chef's k.	D	Copyright and patent laws are considered to be so comprehensive by legislators that they					
		laws out.		chefs' rights.					will never address the gap.					
				<u> </u>		<u> </u>								
77.	I do	n't believe in ghosts.		I haven'	t see	n one	yet.							
	A	I think	В	At least	C	Ir	n particular	D	In other words					
78.	The		night;		1	ere ha	s been no home	ewor	k all week					
	A	As a result	В	Therefore	C	Co	onsequently	D	In fact					
79.		•		y a specific group of peo	<del>î                                      </del>	ı								
	A	Dialect	В	Coda	C	Acc	ent	D	Voice					
0.0														
80.	,	syllable words are u					11 1 1		NT					
	A	First	В	Second	C	T	wo syllables	D	Not stressed at all					
				Croup D. Chomistry	, [2 <u>0</u>	v1-2	n 1							
	Group D: Chemistry [20x1=20]													
81.	Fa	uivalent weight of cry	vstallir	ne ovalic acid is										
01.	A	53	В	93		С	63	D	45					
	Λ	] 33	ן ט				03	10	1 43					
82.	W	hich of the following	specie	s has largest size?										
02.	A	N <sup>3-</sup>	В	O <sup>2-</sup>		С	F	D	Na <sup>+</sup>					
	7.1	11	<u> </u>	<u> </u>			1	12	114					
83.	W	hich of the following	set of	quantum number is not	possi	ible?								
	A	n=2, L=1, m=0,s=+1/2	В	n=3, L=2, m=0,s=+1/2		С	n=3, L=3, m=1,s= -1/2	D	n=2, L=0, m=0, s=-1/2					
		111-0,5-+1/2	<u> </u>				111-1,51/2		3-1/2					
84.	Ox	idation number of Ni	in Ni	(CO) <sub>4</sub> is										
	A	+4	В	-2		С	0	D	None of them					
				<del>_</del>		1 - 1			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
85.	Ox	idation is associated	with											
	A	Loss of electrons		Increase in positive char	rge	С	both a & b	D	Gains of electrons					
			1	1	<u> </u>	1 1								
86.	Fo	r endothermic reaction	n											
	Α	$\Delta H = 0$	В	$\Delta H = +ve$		С	$\Delta H = -ve$	D	None					
	1	<u> </u>	: I			1 1			1					
87.	21	itre of O <sub>2</sub> at NTP weight	ghts											
	A	0.71 gm	В	2.86 gm		С	2.3 gm	D	2.85 gm					
	1		: I			1 1								
88.	Wl	nen zinc is allowed to	react	with very dilute HNO <sub>3</sub> ,	then		is obtained	1						
	A	N <sub>2</sub> O	В	NH <sub>4</sub> NO <sub>3</sub>		С	NO	D	NO <sub>3</sub>					
	1	-		· •				1	· ·					

89.	No	nmetal that can cond	ıct e	lectricity at ordinary condition	is			
	A	phosphorus	В	graphite	С	sulphur	D	chlorine
	-	1 1	<u> </u>	<i>U</i> 1		1	1	
90.	Fro	ath floatation proces	s is ı	used for the metallurgy of				
	A	Amalgams	В	Oxide ore	C	Sulphide ore	D	Chloride ore
							•	
91.	The	reducing agent insid	le Be	essemer converter during extra	ction	of copper is		
	A	Cu	В	CO	C	Al	D	$Cu_2S$
92.	In l	nard steel the % of ca	rbon					
	A	0.1 - 0.4 %	В	0.2 - 0.5%	C	0.5 - 1.5%	D	0.2%
93.		byl amine reaction is					1	
	A	1 <sup>0</sup> amine	В	2º amine	C	3 <sup>0</sup> amine	D	All
94.	1			e initial concentration in			1.	
	A	Second order	В	First order	C	Third order	D	Zero order
95.	Chi	romatography is a ph	ysica	al method that is used to separa	ate ai		1	
	A	Complex mixture	В	Simple mixture	C	Viscous	D	Metals and non
		-		•		mixture		metals
96.	Cat	alvet used in the man	ufac	ture of H2SO4 by contact pro	CASS	is		
70.	A	Finely divided Ni	В	NO	C	Fe	D	$V_2O_5$
	7.1	Tillery divided ivi	ם	110		10	<u> </u>	<b>V</b> 203
97.	For	ideal gas the comp	ressi	bility factor (Z) is equal to				
71.	A	0	В	1	С	2	D	3
		<u> </u>		<del>-</del>				
98.	Ber	nzene diazonium chlo	ride	is reduced benzene by				
7 01	A	H <sub>3</sub> PO <sub>4</sub>	В	H <sub>3</sub> PO <sub>3</sub>	С	H <sub>3</sub> PO <sub>2</sub>	D	PH <sub>3</sub>
		J		<u> </u>				
	The	compound 'R' form	ed ir	n the following sequence of co	mno	und is		
99.		PCl <sub>e</sub>		alk.NaOH	шро	ana is		
	СН	3CH <sub>2</sub> CH <sub>2</sub> OH — 3 ch <sub>3</sub>	→A -	——→B			1	
	A	Propyne	В	Propene	C	Propane	D	Propanol
100.	Alc	ohol is soluble in wa	ter d	ue to			1	T
		H-bonding		T . 1 1 TT 1 1'		Intermolecular		11 1
	٨	between water	ъ	Intramolecular H-bonding		H-bonding	ח	H-bonding
	A	molecules	В	between water and propane molecules	C	between water	D	between propane molecules
				molecules		and propane molecules		molecules
		<u> </u>				morecures		



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