BEATS ENGINEERING

INSTITUTE OF ENGINEERING

MODEL ENTRANCE EXAM

<u>(SET – 2)</u>

Instructions:

There are 100 multiple-choice questions, each having four choices of which only one choice is correct.

Date : 2081/02/19 (June 01) **Duration** : 2 hours **Time :** 8 A.M. – 10 A.M.

<u>SECTION – A</u> (1 marks) (1*60 = 60)

1)	Mathematics	_ taught to us.				
	a) are	b) was	c) have been	d) were		
2)	We notes fro	m the board now.				
	a) were writing	b) wrote	c) are writing	d) had written		
3)	Many people are inte	rested better jo	obs.			
	a) to finding	b) in finding	c) for finding	d) of finding		
4)	I would rather that yo	ou the work too	lay.			
	a) not do	b) didn't do	c) hadn't done	d) haven't done		
5)	We attended a lecture	e 'World Envir	conmental Protection'.			
	a) by	b) in	c) at	d) on		
6)	The two countries fir	ally decided to bury th	ne hatchet after ten yea	rs of war.		
	a) to disclose information b) to praise one's self					
	c) to stop fighting		d) to accept defeat			
7)	He asked his teacher,	, "Need I read this chap	oter?"			
	a) He asked his teach	er whether there was a	need to read this chapt	ter.		
	b) He asked his teach	her whether he needed t	to read that chapter.			
	c) He asked his teach	er if he had to read tha	t chapter.			
	d) He asked his teach	her if he had needed to	read that chapter.			
8)	Admonish (Synonym	n):				
	a) praise	b) alert	c) commend	d) compliment		
9)	Impediment (Antony	m):				
	a) advantage	b) hinder	c) interference	d) obstruct		
10)	Which one of the foll	lowing vowel symbols	is used in the word 'sit	??		
	a) i:	b) e	c) I	d) ə		
11)	The sentence pattern	for the following sente	ence is:			
	"Everyone found the	book controversial."				
	a) Subject + Verb + (Object + Adjunct				
	b) Subject + Verb +]	Direct object + Indirect	tobject			
	c) Subject + Verb + (Complement				
	d) Subject + Verb + 0	Object + Complement				
12)	Transform the follow	ing sentence into inter	rogative.			
	"She will feel better	in the morning."				
	a) Would she feel be	tter in the morning?				
	b) Will she feel bette	(in she feel better in the morning)				
	d) Would she have falt hotton in the momin -2					
12)	d) would she have fe	elt better in the morning	<u>5</u> / 1			
13)	Increasing the temper	rature of an aqueous so	blution will cause:			
	a) decrease in molai	ly	d) decrease in molarit	-y		
14)	Le the electrolytic col	raction	d) decrease III % w/w			
14)	a) asthada ta anada i	n the solution	10111.			
	a) canode to anode in the solution b) asthede to anode through automal superior					
	a) asthoda to anoda t	hrough external supply				
	d) anode to esthode t	brough internal supply				
15)	In which of the follow	wing compounds nitro	gen exhibits highest or	ridation state?		
15)	M which of the follow	h) <i>NH</i> .	c) N. H	A) NH OH		
16)	aj 1v2114 Magnetic quantum n	umber for the valence of	electron of notassium is	u) 11/12/11		
10)	a) 0	h) 1	c) ?	у. d) 7		
	u, U	0/1	\sim , \sim	uj /		

17)	In which of the following cases, reaction is spontaneous at all temperatures?					
	a) $\Delta H > 0$; $\Delta S > 0$	b) $\Delta H < 0$; $\Delta S > 0$	c) $\Delta H < 0$; $\Delta S < 0$	d) $\Delta H < 0$; $\Delta S = 0$		
18)	Which of the following	ng is paramagnetic?				
,	a) <i>CN</i> ⁻	b) <i>NO</i> ⁺	c) <i>CO</i>	d) O_2^{-}		
19)	Which of the following	ng oxides is not an am	photeric oxide?	, L		
,	a) PbO	b) ZnO	c) MgO	d) Al_2O_3		
20)	The ionic character in	n H-X bond is highest i	in:	,		
,	a) HBr	b) HF	c) HCl	d) HI		
21)	Hydrated alumina is	converted to anhydrous	s form by:	,		
,	a) roasting	b) Calcination	c) smelting	d) leaching		
22)	AgCl is soluble in:)) 6	, 8		
)	a) aquaregia	b) H ₂ SO ₄	c) HCl	d) NH3		
23)	Among the following	which has highest kn	ocking properties?			
20)	a) aromatic hydrocarl	bons	b) branched chain pa	raffins		
	c) olefins		d) straight chain para	ffins		
24)	Which of the followi	ng does not gives aldol	l condensation?			
21)	a) HCHO	b) CH ₂ CHO	c) CH ₂ CH ₂ CHO	d) CH2CH2CH2CHO		
25)	Phenol reacts with ch	loroform in presence	of an KOH to give sa	licylaldebyde. This reaction		
23)	is called.	norororini in presence	of aq. Roll to give sa	negrandenyde. This reaction		
	a) Riemer-Tiemann r	eaction	h) Carbylamine react	ion		
	a) Connizzoro's react	ion	d) Eriedel Craft react	ion		
26)	The most reactive co	nound towards nitrat	ion is:	1011		
20)	a) bonzono	h) ablarabanzana	a) toluono	d) nitrohonzono		
27)	a) belizene In trionale ADC if a	-12 h - 14 and $a -$	$= 1\Gamma \text{then no diverse for}$			
27)	In triangle ABC, II a	= 13, b = 14 and $c =$	= 15, then radius of ex .	-circle r_1 is:		
20)	a) 4 10^{-1} 10^{-1}	b) 10.5	c) 13.5	d) 17.5		
28)	If $A = \tan^{-1} x$, then	$\sin 2A =$		2		
	a) $\frac{2x}{\sqrt{1-x^2}}$	b) $\frac{2x}{1+x^2}$	c) $\frac{2x}{\sqrt{1+x^2}}$	d) $\frac{1+x^2}{1-x^2}$		
29)	If $\sin \theta + \cos \theta = \sin \theta$	$n 2A + \cos 2A$ then A	$\sqrt{1+x^2}$	1-x2		
27)	a) $\pi/6$	b) $\pi/3$	c) $\pi/4$	d) $\pi/2$		
30)	The value of expressi	$\cos 3 \cos 4 + 4 \sin 4 \sin 1$	es hetween	a) 10/2		
50)	a) $[-3, 3]$	b) $[-4.4]$	c) $[-55]$	d) [-1 1]		
• • •	$x_{1} = 0, 5$ $y_{2} = (\sin x - x) + 1$	0)[4,4]	0)[0,0]	u)[1,1]		
31)	$\lim_{x \to 0} \left(\frac{1}{x} \right) \sin \frac{1}{x} =$					
	a) 0	b) 1	c) 2	d) does not exist		
32)	$\frac{d}{d}\cos^{-1}(\sin x) =$,	,			
52)	dx	1 \ 1				
	a) x	b) -1	c) $-\tan x$	d) $-\cot x$		
33)	$\int_{\sqrt{2}}^{\frac{1}{\sqrt{2}}} \frac{dx}{dx} -$					
55)	$J_0 \sqrt{1-x^2}$	1 \ /0				
2.4	a) $\pi/2$	b) $\pi/3$	c) $\pi/6$	d) $\pi/4$		
34)	The side of an equilateral triangle is 'a' units and is increasing at the rate of 'k' units/sec. Rate					
	of increase of its area is:					
	a) $\frac{2}{k}$	b) $\sqrt{3} ak$	c) $\frac{\sqrt{3}}{2}ak$	d) $\frac{\sqrt{3}}{\sqrt{3}}$		
2.5	$\sqrt{3}$		2	⁷ 2ak		
35)	The value of $\sqrt{7} + 2^2$	$4i + \sqrt{7} - 24i =$		_		
	a) 8	b) 2√2	c) 4	d) 6√2		
36)	If x is real, then the v	alue of $x^2 - 6x + 13$	will not be less than:			
	a) 4	b) 6	c) 7	d) 8		
37)	In a data, $N = 30 + N$	$P, \sum f x = 1320 \text{ and } \overline{X}$	= 33, the value of 'P'	is:		
	a) 6	b) 8	c) 9	d) 10		

38)	$A - (B \cap C) =$				
,	a) $A - (B - C)$	b) $(A - B) \cup (A - C)$			
	c) $(A - B) \cap (A - C)$	d) $(A - B) \cap C$			
39)	If $y = x - \frac{x^2}{x^2} + \frac{x^3}{x^3} - \frac{x^4}{x^4} + \dots + \infty$, then $x = 1$				
,	a) $e^{y} - 1$ b) $1 + e^{y}$	c) $\log v - 1$ d) $1 + \log v$			
40)	The domain of the function $f(x) = \frac{x}{1-x}$ is:				
,	a) $(0, \infty)$	b) $(-1 - \infty)$			
	$(0, \infty)$	d) $R = \{2\}$			
41)	If $\vec{a} = (2i \pm i \pm 2k)$ and $\vec{b} = (5i - 2i \pm k)$	then the projection of \vec{h} upon \vec{a} is:			
41)	in $u = (2i + j + 2k)$ and $b = (3i - 3j + k)$	a) 5			
42)	The equation of the line which makes x-inter	cent three times the v-intercent and passes through			
42)	(1.2) is				
	a) $x + 3y = 7$	b) $3x - y = 5$			
	c) $2x + 4y = 1$	d) $5x - 2y = 9$			
43)	The equation of the circle having radius 5 an	d concentric with the circle $x^2 + y^2 - 6x - 4y - 4y$			
,	3 = 0 is:	<i>y</i>			
	a) $x^2 + y^2 - 6x - 4y + 18 = 0$	b) $x^2 + y^2 - 6x - 4y - 1 = 0$			
	c) $x^2 + y^2 - 6x - 4y - 12 = 0$	d) $x^2 + y^2 + 6x + 4y + 5 = 0$			
44)	The equation of a parabola having focus (-3,	, 0) and directrix $x = 3$ is:			
	a) $y^2 = 12x$ b) $y^2 = -12x$	c) $x^2 = 12y$ d) $x^2 = -12y$			
45)	Which one of the following does not represe	ent a hyperbola?			
	a) $xy = 1$	b) $x^2 - y^2 = 5$			
	c) $(x-1)(y-3) = 3$	d) $x^2 - y^2 = 0$			
46)	The angle between the pair of planes $x + 2y$	y + 3z = 5 and $3x - 3y + z = 1$ is:			
47	a) 30° b) 60°	c) 90° d) 45°			
4/)	A dimensionless quantity:	h) almana has a mit			
	a) nevel has a unit	d) does not exist			
48)	The area under acceleration-time graph repr	esents.			
40)	a) initial velocity	b) final velocity			
	c) change in velocity	d) distance travelled			
49)	Which of the following is correct?	<i></i>			
-)	a) $E^2 = p^2 c$	b) $E^2 = p^2 c^2$			
	c) $E^2 = pc^2$	d) $E^2 = \frac{p^2}{p^2}$			
50)	For a perfectly rigid body:	c^2			
50)	a) Young's modulus is infinite and bulk mod	tulus is zero			
	b) Young's modulus is zero and bulk modul	us is infinite			
	c) Young's modulus is infinite and bulk mod	dulus is also infinite			
	d) Young's modulus is zero and bulk modul	us is also zero			
51)	The total energy of a simple harmonic oscill	ator is proportional to:			
-	a) amplitude	b) square of amplitude			
	c) frequency	d) velocity			
52)	The latent heat of vaporization of a substance	e is always:			
	a) greater than its latent heat of fusion	b) greater than its latent heat of sublimation			
5 0`	c) equal to its latent heat of sublimation	d) less than its latent heat of fusion			
53) Sound waves in air cannot be polarized because:					
	a) their speed is small	b) their aread is term another in larger dout			
	c) they are longitudinal	a) their speed is temperature independent			

54)	A sphere encloses an electric dipole within it. The total flux across the sphere is:					
54)	a) zero		b) half that sue to a s	ingle charge		
	a) double that due to	a single charge	d) dependent on the r	agition of dinala		
55)	The direction of the	a single charge	alastria sireuit is:	Josition of dipole		
55)	1 40 10000 0 04004:01					
	a) from low potentia	t to high potential	b) from high potentia	in to low potential		
- 0	c) does not depend u	pon potential value	d) current cannot flow	w through circuit		
56)	Nickel shows ferromagnetic property at room temperature. If the temperature is increase					
	beyond Curie temper	ature, then it will show	/:			
	a) anti ferromagnetis	m	b) no magnetic prope	orty		
	c) diamagnetism		d) paramagnetism			
57)	A wavefront is a locu	us of:				
	a) constant amplitude	e	b) constant intensity			
	c) constant phase		d) same wavelength			
58)	A converging lens is used to form an image on a screen. When the upper half of the lens is					
	covered by an opaque screen:					
	a) half the image wil	l disappear	b) complete image w	ill disappear		
	c) intensity of image	will decrease	d) intensity of image	will increase		
59)	In photoelectric effect, the photoelectric current is independent of:					
a) intensity of incident light						
	b) potential difference	e applied between the	two electrodes			
	c) the nature of emitter material					
	d) frequency of incid	ent light				
60)	The impurity atom w	with which pure silicon	is doned to make n-tyr	e semiconductor is:		
00)	a) Indium	b) Phoenhorous	c) Antimony	d) Arsenic		
	a) muluin	oj i nosphorous	<i>c</i> i Anumony			

<u>SECTION – B (2 marks)</u> (2*40=80)

Read the following passages and answer the questions given below (61-64):

If I had been asked in my early youth whether I preferred to have dealings only with men or only with books, my answer would certainly have been in favour of books. In later years this has become less and less. Not that I have had so much better experiences with men than with books, on the cotrary delightful books even now come my way more often than purely delightful men. But the many bad experiences with men have nourished the meadow of my life as the noublest book could not do.

- 61) The author says that in later years his love of books diminished because:
 - a) he did not get many delightful books to read.
 - b) he had better experiences with men than with books.
 - c) he had given up the habit of reading books.

d) even the bad experiences he had with men were more valuable than what the noblest books could give.

- 62) Which one of the following statements best reflects the main arguments of the passage?
 - a) Books are always better than men.
 - b) There are more purely delightful men than purely delightful books.

c) It is the experience with other human beings that nourishes one's life and not necessarily books.

d) Neither men nor books give any worth while experience.

- 63) Which one of the pairs of phrases best helps to bring out the metaphorical meaning of the meadow of my life?
 - a) Pure and healthy life

- b) Vast and rich life
- c) Well nourished but dull life
- d) poor but simple life

64)	In his early youth, th	e author:			
	a) liked to have more dealings with books than with men.				
	b) preferred to have dealings with men than with books.				
	c) liked to have more dealings with men than with books.				
	d) liked to have deal	ings more with men th	an with books.		
65)	$A \xrightarrow{PCl_5} B \xrightarrow{alc.KCN} C \xrightarrow{H_2O/H^+} D$. Identify D in the given reaction where A is a 1° alcohol which				
	gives positive lodoic	b) CH-CH-COOH	a) CH.CH.CN	A CH.CH.CH.OH	
66)	a) CII3COOII Electrolytic reduction	n of Nitrobenzene in s	trongly acidic medium	d) CH3CH2CH2OH	
00)	a) aniline	b) azoxybenzene	c) n -aminophenol	d) Hydrazobenzene	
67)	The relation between	$K_{\rm L}$ and $K_{\rm L}$ for the real	ction $N_{a}(g) + 3H_{a}(g)$	$\Rightarrow 2NH_{2}(\sigma)$ is:	
07)	a) $K = K (PT)$	m_p and m_c for the real	b) $K = K (PT)^{-2}$	(21113(6) 15.	
	a) $K_p = K_c(RT)$		b) $K_c = K_p(RT)$		
(0)	$C_{c} K_{c} = K_{p}(RI)$	C 1 1 '	$d) \kappa_p = \kappa_c(\kappa I) - \frac{1}{2}$		
68)	The maximum numb	per of molecules is pres	sent in:		
	a) 5L of N_2 gas at N	IP	b) 0.5 g of H_2 gas		
(0)	c) 10 g of O_2 gas	D 1 £[D]	d) ISL of H_2 gas at S		
69)	For the reaction, R –	P, a graph of [R] aga	inst time is found to be	a straight line with negative	
	a) second order	der of feaction?	b) third order		
	a) first order		d) zero order		
70)	A cell constructed by	coupling a standard co	onner electrode and a st	andard magnesium electrode	
/0)	has emf of 2.7 volts	If the standard reducti	ion potential of conner	electrode is ± 0.34 V that of	
	magnesium electrode		ion potential of copper		
	a) $+3.04$ V	b) -0.34 V	c) $+2.36$ V	d) -2.36 V	
71)	The species $Ar_{K}K^{+}$	and Ca^{2+} contain the	same number of electr	ons. In which order do their	
)	radii increase?				
	a) $Ar < K^+ < Ca^{2+}$		b) $Ca^{2+} < Ar < K^+$		
	c) $Ca^{2+} < K^+ < Ar$		d) $K^+ < Ar < Ca^{2+}$		
72)	A solid compound '2	X' on heating gives CO	O ₂ gas and a residue. T	he residue mixed with water	
	forms 'Y'; on passin	g an excess of CO ₂ the	rough 'Y' in water, a c	lear solution 'Z' is obtained.	
	On boiling 'Z' comp	ound 'X' is reformed.	The compound 'X' is:		
	a) $Ca(HCO_3)_2$	b) <i>CaCO</i> ₃	c) Na_2CO_3	d) K_2CO_3	
73)	An insect trapped in	a circular groove of	radius 12 cm moves al	ong the groove steadily and	
	completes 7 revolution	ons in 100 s. The linea	r speed of the insect is		
	a) $4.3 \ cm s^{-1}$	b) $5.3 \ cms^{-1}$	c) $6.3 \ cms^{-1}$	d) 7.3 cms^{-1}	
74)	A block of mass 1 k	g lies on a horizontal	surface in a truck. The	coefficient of static friction	
	between the block an	d the surface is 0.6. If t	the acceleration of the t	ruck is $5 m s^{-2}$, the frictional	
	force acting on the b	lock is:			
	a) 10 N	b) 5 N	c) 2.5 N	d) 20 N	
75)	A child is standing v	with his two arms outs	stretched at the centre of	of a turntable that is rotating	
	about its central axis	s with an angular spee	ed ω_0 . Now, the child	tolds his hands back so that	
	moment of inertia be	$\frac{1}{1000}$ comes 3 times the init	ial value. The new ang	ular speed is:	
	a) 3 <i>w</i> 0	b) $\frac{3}{3}$	c) $6\omega_0$	d) $\frac{30}{6}$	
76)	A capillary tube of r	adius r is immersed in	water and water rises	in it to a height h. The mass	
	of water in the capill	lary tube is 5 g. Anoth	er capillary tube of rad	lius 2r is immersed in water.	
	The mass of water th	at will rise in this tube	e is:		
	a) 2.5 g	b) 5.0 g	c) 10 g	d) 20 g	

- A cup of coffee cools from 90°C to 80°C in t minutes, when the room temperature is 20°C. The 77) time taken by a similar cup of coffee to cool from 80°C to 60°C at a room temperature same at 20°C is: b) $\frac{13}{10}t$ d) $\frac{10}{13}t$
 - a) $\frac{5}{13}t$ c) $\frac{13}{5}t$

A monoatomic gas is adiabatically compressed to $\frac{1}{4}^{th}$ of its original volume, the final pressure 78) of gas in terms of initial pressure P is: a) 7.08 P b) 8.08 P c) 9.08 P d) 10.08 P

The fundamental node produced by a closed organ pipe is of frequency v. The fundamental 79) note produced by an open organ pipe of same length will be of frequency: d) 4v a) v/2 b) v c) 2v

80) Two identical capacitors have the same capacitance C. One of them is charged to potential V₁ and the other to V₂. The negative ends of the capacitors are connected together. When the positive ends are also connected, the decrease in energy of the combined system is: h) $\frac{c}{c} (V_1^2 + V_2^2)$ $v^{C}(u^{2} u^{2})$

a)
$$\frac{1}{4}(V_1^- - V_2^-)$$

b) $\frac{1}{4}(V_1^- + V_2^-)$
c) $\frac{c}{4}(V_1 - V_2)^2$
d) $\frac{c}{4}(V_1 + V_2)^2$

Three resistors 2 Ω , 4 Ω and 5 Ω are combined in parallel. This combination is connected to a 81) battery of emf 20 V and negligible internal resistance. The total current drawn from the battery is:

A current of 1 A through a coil of inductance of 200 mH is increasing at a rate of $0.5 As^{-1}$. 82) The energy stored in the inductor per second is: a) $0.5 Is^{-1}$ b) 5 Is^{-1} c) $0.1 Is^{-1}$ d) 2.0 Is^{-1}

A ray of light is incident at 60° on one face of a prism of angle 30° and the emergent ray makes 83) 30° with the incident ray. The refractive index of the prism is: c) 1.5 a) 1.732 b) 1.414 d) 1.33

The fringe width in a Young's double slit interference pattern is 2.4×10^{-4} m, when red light 84) of wavelength 6400 Å is used. How much will it change, if blue light of wavelength 4000 Å is used?

a) $9 \times 10^{-4} m$	b) $0.9 \times 10^{-4} m$
c) $4.5 \times 10^{-4} m$	d) $0.45 \times 10^{-4} m$

A light of wavelength 600 nm is incident on a metal surface. When light of wavelength 400 85) nm is incident, the maximum kinetic energy of the emitted photoelectrons is doubled. The work function of the metal is: a) 1.03 eV b) 2.11 eV

d) 2.43 eV c) 4.14 eV

A bag contains 6 red, 5 green and 4 yellow-coloured balls. 2 balls are drawn at random, after 86) one another without replacement, then what is the probability that at least one ball is green? a) 2/3 b) 4/5 c) 3/8 d) 4/7

If $\cot^{-1} x + \cot^{-1} y = \frac{\pi}{2}$, then xy = aa) 1 b) -1 87) c) 0 d) 1/2 $\lim_{x \to 0} \frac{1 - \cos x}{x^2}$ is equal to: 88) b) 0 c) ∞ d) 1/2 If $xe^{xy} = y + sin^2 x$, then at $x = 0, \frac{dy}{dx}$ is equal to: 89) d) $\frac{y}{r}$ c) 0 a) -1 b) 1

90)	$\int \frac{dx}{\tan x + \cot x} =$			
	a) $\frac{\cos 2x}{x} + c$		b) $\frac{\sin 2x}{c} + c$	
	c) $-\frac{\sin 2x}{4} + c$		d) $-\frac{\cos 2x}{4} + c$	
91)	A circular plate of me	etal expands by heat so	that its radius increase	es at the rate of 0.25 cm/sec.
	Then, the rate at which	ch the surface area is in	creasing when the radi	us is 7 cm is:
	a) $\frac{5\pi}{2}$ cm ² /sec	b) 15 <i>cm</i> ² /sec	c) 11 <i>cm</i> ² / <i>sec</i>	d) $\frac{7\pi}{4}$ cm ² /sec
92)	The area bounded by	the curve $y = x(1 - x)$	$(x)^2$ and x-axis is:	
	a) 1/12	b) 1/6	c) 3/4	d) 5/7
93)	If the sum of an infin	ite G.P. and sum of the	e squares of its terms a	re each equal to 3, then the
	common ratio of the	1 st series is:		1) 2/2
	a) I	b) 1/2	c) 2/3	d) 3/2
04)	If $m_{\pi} + 1 = 0$ then	$\begin{vmatrix} x & x^2 & 1+x^3 \\ y & y^2 & 1+y^3 \end{vmatrix} =$		
94)	11 xyz + 1 = 0, uten	$\begin{vmatrix} y & y & 1+y^{*} \end{vmatrix} - = -2$		
	a) $4xyz$	z^{-} 1 + z^{-}	c) $1 + r + v + z$	0.(b
		0) 1 1 1 1	$(a + 1)^{6}$	u) 0
95)	The term independen	t of x in the expansion	of $(2x + \frac{1}{3x})$ is:	
	a) $\frac{160}{2}$		b) $\frac{80}{2}$	
	c) $\frac{160}{160}$		d) $\frac{80}{80}$	
06)	²⁷ There are 5 reads be	twoon cities A and P a	$\frac{d}{3}$	tion P and C. In how many
90)	ways can a person dr	ive from A to C and ret	turn by different roads)
	a) 240	b) 480	c) 156	d) 400
97)	If the pair of lines ax	$x^{2} + 2hxy + by^{2} + 2g$	x + 2fy + c = 0 inter	sect on y-axis, then:
,	a) $f^2 = bc$	<i>, , , , ,</i> , , , , , , , , , , , , , ,	b) $g^2 = ac$	
	c) $f^2 + g^2 = 1$		d) $af + bg = c$	
98)	If $2x - 3y = 0$ is th	e equation of common	h chord of the circle x	$x^{2} + y^{2} + 4x = 0$ and $x^{2} + y^{2} + 4x = 0$
	$y^2 + 2\lambda y = 0$, then t	the value of λ is equal t	:0:	
	a) 0	b) 1	c) 2	d) 3
99)	The equation of an e	llipse in which the dis	tance between the foci	is 8 units and the distance
	between the directric r^2 v^2	es is 18 units and its ax	tes being the same as the r^2 v^2	le co-ordinate axes is:
	a) $\frac{x}{36} + \frac{y}{20} = 1$		b) $\frac{x}{36} + \frac{y}{25} = 1$	
	c) $\frac{x^2}{x^2} + \frac{y^2}{y^2} = 1$		d) $\frac{x^2}{x^2} + \frac{y^2}{y^2} = 1$	
100)	12^{-12} If P(2 3 5) O(-1 3 2)	and $R(3.5.2)$ are the v	25 25 40	pen dc's of the side OR is:
100)	a) $\frac{1}{2}$ $-\frac{1}{2}$ $\frac{3}{2}$	$\operatorname{und} \operatorname{I}(5,5,2) \text{ are the v}$	b) $\frac{2}{2} = \frac{1}{2} - \frac{2}{2}$	ien de 5 61 die 51de Qiv 15.
	2' 2' 2' 2		3'3'3'3	
	c) $-\frac{1}{3}, \frac{1}{3}, \frac{2}{3}$		d) $\frac{1}{3}$, $-\frac{2}{3}$, $\frac{1}{3}$	

******* Thank You!!! **** * ***