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# NFC IET INSTITUTE OF ENGINEERING AND TECNOLOGICAL Training MULTAN Engineering Admission Sample Test 01

			Engi	<u>ineer</u>	<u>ing Adn</u>	<u>nissio</u>	n Sai	mple Test	<u>t 01</u>		
	SICS										
<b>Dire</b> 1.		PROPRIATE ANSWER	ALL ANS S MUST E	SWER BE IND	MUST BE ICATED BY	<b>GIVEN</b> Y LETTI	ON TI ERS (A,	HE ANSWER B, C, D) ANI	R <b>SHEET.</b> D NOT BY THE	E WOR	PDS THEMSELVES.
1.	(a)	•						_	he photons o		
	(a)	The energy of light increases with				(b)	_		-	-	with atomic
	(c)	speed	it increa	.505 111	itti	(d)		trons	irons are raei	inticui	with atomic
2.		elevator initially acc ple pendulum in the		_	,			ends with u	niform speed	l. Tim	ne period of a
	(a)	Increase and then decrease		(b)	Decrease increase	e and t	hen	(c)	Increase	(d	) Decrease
3.	A si	mple arrangement l	oy mean	s of w	hich e.m.	f,s. are	comp	pared is kno	own		
	(a)	Voltmeter	(b)	Poter	ntiometer		(c)	Ammeter		(d)	None of the above
4.	The	physics underlying	the ope	eration	of a refri	gerato	r most	closely res	embles the p	hysic	es underlying,
	(a)	The freezing of water	(b)	The	melting o	of ice	(C)	The evapor water	ation of	(d)	A heat engine
Do	wnlo	oaded these Sa	mple	Pap	ers fror	<b>n</b> : <u>w</u> ւ	ww.e	ntrytest.c	<u>om</u>		
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5.	dowr	certain body of manward component o	f weight	t is		zontal					
	(a)	$.mgCos\theta$	(b)	.1	mgSinθ		(c)	.mg [	Γanθ	(d)	None
6.	eacl	plane faces of two n other to form a use in a real, inverted i	ual conv	ex ler	ns. The dis	stance	from t				
	(a)	40 cm	(b)	80 cr	n		(c)	20 cm		(d)	60 cm
7.	The	law which gives de	efinition	of for	rce is						
	(a)	Newton's law of g	gravitati	on			(b)	Third law	of motion		
	(c)	Second law of mo	tion				(d)	First law	of motion		
8.	Hyg	grometer is an instru	ıment us	sed for	r measurir	ng					

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	(a)	The compression of temperature	water v	apour with	(b)		mount of wat sphere	ter vap	our	in the
	(c)	Specific gravity of a	ir		(d)		lensity of air			
9.	An i (a) (c)	nertial frame of reference Acceleration is zero Acceleration is uniform.		one whose:	(b) (d)		city is changin a is not zero	ng wit	h tiı	me
10.	A m	oving car whose engi	ne is sv	witched off. comes to	rest at	fter soı	ne time due t	o:		
	(a)	Inertia	(b) I	Its mass	(c)	Fricti	on	(d	1)	Earth's gravitation
11.	(a) (b)	•	-	nstantaneously after costantaneously after co					-	•
12.		ording to the second l Fores		motion, acceleration is Γime	prop (c)	ortiona Mass		(c	<b>1</b> ) ]	Distance
14.	Whe	en the object is placed	at 2f o	f convex lens then the	imag	ge form	ned behind the	e lens	will	l be
Dov		At the focus		At 2f Papers from: ww	C)	Beyon		D)	1	Between f and 2f
			•	•			<u>011.þk</u>			
		•		www.thecatonlin		<u>n</u>				
				314 333, 03326077						
		2 2	-	pal focus of a convex			•			Centre of
Α	<b>(</b> )	Same distance	B) I	Infinity	C)	Same	side of lens	D)	C	curvature
16. V	Vhich	one of the following	cannot	measure wavelength	of X-	rays in	any way			
A	<b>(</b> ) 1	Bragg's law	B) I	Diffraction grating	C)	Comp	ton effect	D)		Photo electric effect
17. V		one of the following		ties is not found in bo Diffraction		ınd and Polari		D)	F	Reflection
18.		relation between time $T=2~\pi\omega$	-	d T and angular veloc $T = \omega/2\pi$	ity ω	_	n by $T = 2\pi / \omega$		(d)	$T = v \omega$
19.	Who	en a body moves in a $0^0$	circle, (b)	the angle between its $45^0$	linear	veloci (c)	ity v and angu 90 <sup>0</sup>		eloci (d)	ity ω is 180 <sup>0</sup>
20.	П ra (a)	adians = $90^0$	(b)	$180^{0}$		(c)	$60^{0}$	((	d)	$30^{0}$
21.	In r	acing car moving alor	ng a cir	cular path the friction	at the	whee		g of ro	oads	s provides the
	(a)	Centripetal Force	(b)	Centripetal Acceleration		(c)	Centre of Mass	(	d)	Centrifugal Force

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22.		time period is defined One radian		e time required to traver 180 degrees	rse	(c) One revo			90 degrees
23.	Wh	ich of the following p	article	es can induce artificial r	adio-	activity in certa	nin nuc	lei?	
	(a)	$\alpha$ -particle	(b)	β-particle	(c)	γ-particle	(d)	All c	of the above
24.	Ide	ntify the alpha-particle	e?	_		_			
	(a)	$_{1}\mathrm{H}^{^{1}}$	(b)	$_{1}\mathrm{H}^{2}$	(c)	$_{1}\mathrm{H}^{3}$	(d)	<sub>2</sub> He <sup>4</sup>	
25.	Wh	ich of the following p	article	es move with velocity or	f ligh	t?			
	(a)	α-particle	(b)	β-particle	(c)	γ-particle	(d)	All c	of the above
26.	The	torque on a body wil 90°	l be ze b.	ero if the angle between $180^0$	$\vec{r}$ and $\vec{c}$ .	d F is zero or: 270 <sup>0</sup>	d.	None	e
27.	Wh	at is kinetic energy of	a bod	y of mass 10 kg moving	g witl	n velocity 1m/s	<sup>2</sup> ?		
	a.	10 Joules	b.	20 Joules	c.	5 Joules	d.	2.5 Jo	oules
28.	Wh	ich of the following li	sts of	physical quantities con	sists (	only of vectors:	:		
	a.	Time, temperature,		•	b.	Force, volum			
	c.	Velocity, acceleration	on, ma	SS	d.	Force, accele	ration,	veloc	ity
29.		ıltant will be		e 5N act along the same	line	•			ide of their
	a.	5N	b.	10N	c.	20N	d.	30N	
30.	The	air between the lens a	nd the	plate in Newton's ring	expe	riment is replac	ed by	water.	The ring pattern
									None of the
	(a)	Remains the same	(b)	Expands	(c)	Contracts		(d)	above
Dow	nlo	aded these Sam	ple F	Papers from: www	v.ent	rytest.com			
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		STRY:							
Direc			below	you are given four choice	s. SEI	LECT ANY ONE	THAT I	S MO	ST
	API	PROPRIATE ANSWER	•	, c					
				BE GIVEN ON THE			D) 4 MI	NO'	T
	RY	THE WORDS THEM		'T BE INDICATED BY . ES	LEII	EKS(A, B, C, A)	D) ANL	) NO.	l
				25.					
1.	-	lumene is the mineral							
	(a)	Lithium	(b)	Sodium (	c) F	Potassium		(d)	None
2.		eate the most viscous I H <sub>2</sub> O	-		(c)	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub>	CH <sub>3</sub>	(d)	CH <sub>3</sub> OCH <sub>3</sub>

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3.		which of the following $NO_2^- \rightarrow NO_3^-$	g proce (b)	esses nitrogen is reduce $NO_2^- \rightarrow NO_2^-$		$NO_2^- \rightarrow NO_3^-$	(d)	$NH_4^+ \rightarrow N_2$
4.	` ′	ch is not the minera	` /		(0)	1102 / 1103	(u)	1114 / 112
т.	(a)	Analcite	1 01 511	icon		(b) Asbestos		
	(c)	Dolomite				(d) Zircon		
5.	Subs	stance that affects the	e rate o	of reaction but remains	unalte	red at the end of the r	eaction	n is called
	(a)	Catalyst	(b)	Acid	(c)	Base (d)	Non	e of the above
6.	If or		dissolv	ed in one liter of solution	on, the	e solution is called		
	(a)	None of the following	(b	One molal	(c)	One molar	(d)	One normal
7.	If on	e gram equivalent o	f a solu	ate is dissolved in one l	iter of	solution, the solution	is cal	led
	(a)	One normal	(b)	One molal	(c)	One molar (d)	N	one of the above
8.		onstant temperature called	, volun	ne of a given mass of a	gas is	inversely proportiona	al to pr	essure exerted on
	(a)	Coulomb's Law	(b)	Boyle's Law	(c)	General Gas Law	(d)	Charles Law
9.	Very (a)	y small and very larg Significant igures	_ 1	ntities are expressed in Logarithm (c)			onenti	ial notation
10.	The	number of atoms or	molec	ules whose concentration	on det	ermine the rate of rea	ction i	s called
	(a)	Molecularity	(b)	Rate of reaction	(c)	Order of reaction	(d)	None of the above
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			_	1: www.thecatonlin				
		•		. 814 333, 03326077		_		
11.				very small extent in a so		n are called		
	(a)	Neutral	(b)	Weak electrolytes	(c)	Strong electolytes	(d)	None of the above
12.	The	change of concentra	ation of	reactants or products i	s calle	ed,		
	(a)	Order of reaction	(b)	Rate of reaction	(c)	Molecularity	(d)	None of the above
13.	Reac	tions which proceed	l in the	forward direction and	go to o	completion are called		
	(a)	Irreversible reaction	(b)	Equilibrium reaction	(c)	Reversible reaction	(d)	None of the above
14.	The	substance through v	which e	electricity cannot flow i	n mol	ten state or solution fo	orm is	called,
	(a)	Molecularity	(b)	Conductor	(c)	Electrolyte	(d)	Non electrolyte

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15.	proc	law which states, "T				absor	-			
	. ,	Newton's law				(b)	First law of therr	•		
	(c)	Hess's law				(d)	Law of conserva	tion (	of ene	ergy
16.	The calle	amount of solute dis	solved	in 100g of	solvent to fo	orm sa	aturated solution a	ıt a g	iven t	emperature is
	(a)	Dissolution	(b)	Solubility		(c)	Solution	(d)	No	one of the above
17.		theory which states t ibuted in bonding an None of the follow	d antib	onding mo		-	different energies	is ca	•	electrons  M.O. theory
18.	Whe	en a weak electrolyte	is diss	olved in wa	ater only a sr	nall a	mount o molecule	es is		
	(a)	Remains constant	(b)	Ionized		(c)	Deionized		(d)	Increases
19.	The (a)	mixture whose const Coal gas	itutes a	are 50% hy Coultar	drogen, 35%	meth (c)		on mo d)		exide is e of the above
20.	In co	ommon ion effect the	degre	e of ionizat	tion is suppre	essed	by the addition of			
	(a)	A compound	(b)	Another el	lectrolyte	(c)	An element		(d)	None of the above
21.	The	reaction in which he	at is al	osorbed from	m the surrou	nding	to the system is o	called	1	
	(a)	Endothermic reaction	on	(b) Fast re	eaction	(c)	Slow reaction	(	d)	Exothermic eaction
22.		process in which sol Hydration	_	articles suri Hydrolysis		partic (c)	eles is called, Saturation	(	d)	Salvation
Dow	ınlo	aded these Sar	nple	Papers f	from: <u>ww</u>	w.en	trytest.com			
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23.	If or	ne mole of solute diss	solved	in one Kg	of solvent, th	e solı	ution is called			
	(a)	One normal	(b)	One molar	:	(c)	One molar	(d)	) N	one of the above
24.	Equ	ilibrium involving re	actants	s and produ	cts in more t	han o	ne phase is called			
	(a)	Heterogeneous	(b)	Hemogeno	ouss	(c)	Dynamic		(d)	None of the above
25.	Two	double bonds are pr	esent l	etween the	e atoms of the	e mol	ecule			
	(a)	$NH_3$	(b)	$H_2O$		(c)	$CO_2$		(d)	$H_2SO_4$
26.	A cł	nange in which chem	ical co	mposition	of a substanc	e doe	s not change is ca	lled		

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	(a)	Change in shape	(b)	Physical change		(c)	Chem	nical cha	nge	(d)	None of the above
27.	The is ca	•	ne electi	rolytes and molecul	les are	e spli	t up in	to positi	vely and	l nega	tively charge ions
	(a)	Electrolysis	(b)	Ionization	(c)	De	eioniza	ition	(d)	No	one of the above
		as 12 is called		ne atom of an elem	ent co	mpa	red wi	th atomic	e mass o		
	(a)	Atomic mass	(b) N	Molecular mass	(c)	Re	lative	mass	(d)	Gran	n-molecular mass
29.	Sym	bolic representation	n of a n	nolecule of substan	ce is c	called	1:				
	(a)	Symbol	(b)	Formula		(c)	Equa	tion		(d)	None of the above
30.	A su			s are chemically ide	entica	l hav	_		ic numb		
	(a)	Element	(b)	Compound		(c)	Matte	er		(d)	Mixture
MA'	<u> THE</u>	EMATICS:									
1.	BY	YOUR ANSW. THE WORDS TH	R MUS ERS MU EMSEL g lists o	f physical quantitie	D BY	LET	TERS	(A, B, C,	D) ANI : wolume,	mom	entum
<ol> <li>3.</li> </ol>	If (a) (c)			ve z-axis, then the v	rectors		` .		in ne		velocity
		j	(	b) - <i>j</i>			(c)	k		(d)	) - k
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			-	n: <u>www.thecatc</u>							
				1 814 333, 03326							
<ul><li>4.</li><li>5.</li></ul>	(a) (c)	The force acting of the h	on the boody	a body is accelerated a body ectile is maximum			(b) (d)	The vel	ocity of eed of th	the b	ly

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	(a)	$30^{0}$	(b)	45 <sup>0</sup>		(c)	$60^{0}$	(d	) 90 <sup>0</sup>	
6.	-	1 0 1 0		airplane is an example						
_	(a)	Equilibrium (b) S	Static 1	Equilibrium (c) I	Dynar	nic E	quilibrium	(d)	None	
7.	The (a)		be zer (b)	o if the angle between 180 <sup>0</sup>	r and		zero or: 270 <sup>0</sup>	(d)	None	
8.		e go away from the sur e of g will be multiplie		of the earth, a distance of	equal	to th	e one third of th	ne rad	ius of the earth	h, the
	(a)	1/2	(b)	9/16		(c)	1/9	(0	d) 16/9	
		ertain values F and d, $v_0^0$	vork d (b)	one is zero when the ar $30^0$	ngle b	etwe (c)	en the force and $90^0$	d disp (d	Λ	
10.		force acting on a body Gravitational mass		e gravitational field at a Weight	ıny po		s equal to its: Acceleration	(0	d) Inertia	
11.		at is kinetic energy of a 10 Joules		of mass 10 kg moving 20 Joules	with		city 1m/s <sup>2</sup> ? 5 Joules	(0	d) 2.5 Joules	
12.	Sin	nple harmonic motion i	is matl	hematically represented	d as					
	(a)	.a α− x	(b)	.aα x	(c)	V o	<i>t</i> − x	(d)	$F \alpha - x$	
13.		e frequency of second p 1 hertz	-	lum is 2 hertz	(c)	0.5	hertz	(d)	None of the a	ıbove
14.	Αb	ody with frequency f v		complete one vibration	ı in					
	(a)	F seconds	(b)	$\frac{1}{f}$ seconds	(c)	1 se	econd	(d)	$\frac{1}{T}$ seconds	
15.	The	e rate of evaporation de	epends	s upon:						
	(a)	-	and an	mfo.co. of the liquid	(b)		e temperature of	f liqui	d and air	
2014	(c)	The area of the expo			(d)		of the above			
				apers from: www			St.COIII			
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10.	(a)	e saturated vapour pres Increases with rise in			(b)	Dec	creases with rise	e in te	mperature	
	(c)	May increase or decitemperature			(d)	Rer	nains unchange perature		-	
17.				ar expansion of copper f copper sphere per deg			6 per degree C.	. Wha	t will be the co	0-
	(a)			11 1 1		Tw	o times as that o		-	
		Three times as that o		•	(d)		e half as that of		_	
18.	Ler	igth of metal rod is 100	) cm a	and co-efficient of linear	r exp	ansio	on of metal is 0.	00002	2K <sup>-1</sup> By how n	nany
		timeters will it contract 1.001		n cooled through 50 <sup>0</sup> C 0.150		0.0	01	(d)	0.01	

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19.	The Coulomb force in a medium	n of relative permittiv	ity $\mathcal{E}_r$ is given by:	
		-	(c) $\mathbf{F}' = \mathbf{F}_{\varepsilon_{\mathbf{r}}}$	(d) $F' = \frac{F}{\varepsilon_0 \varepsilon_r}$
20.	Capacity of a capacitor depends <ul> <li>(a) The distance between the places</li> <li>(c) The size of the plates</li> </ul>	plates (1	The nature of the dielectrical All of the above	ectric between the plates
21.	The magnetic force $F_m$ acting or given by			
	(a) $F_m = q v \times B$ (b)	$F_m = q v^2 \times B$	(c) $F_m = q v^3 \times B$	(d) $F_m = q v^4 \times B$
22.	A substance which behaves like (a) Magnets (b)		ence of a strong magnetic (c) Electromagnets	
23.	In a circuit, if a resistance of th			
	(a) Increase (b)	Decrease (c) Ren	nain tha cama Idi	t increase and then rease
24.	The phenomenon that the resist is called:	ance of a metal falls e	xactly to zero at a few deg	grees above absolute zero
	(a) Conductivity (b)	Low conductivity	(c) Super-conductivity	(d) Low resistivity
25.	Why should a resistance be intr		series deliberately?	
	To increase current (a) and decrease (b) Voltage	To decrease current and voltage	(c) To make current zero	(d) To make voltage zero
26.	In a house circuit, all electrical neutral wires to get:	appliances are connec	ted in parallel to each other	er between the line and
	<ul><li>(a) Same current and different</li><li>(c) Different current but same difference</li></ul>	notential	<ul><li>(b) Same current and sa</li><li>(d) Difference current a difference</li></ul>	me potential difference nd different potential
27.	Power dissipated in a circuit in	the form of 'V' and 'F	R' can be determine as:	
	(a) $P = \frac{V}{I}$ (b)	•		(d) $P = \frac{I}{V^2}$
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	Lyman series lies in		(c) Infra red region (d	) Far-infra red region
29.	According to Bohr's theory of h	•	` '	,
	<ul><li>path is</li><li>(a) A spiral of increasing radi</li><li>(c) A circle of an allowed rad</li></ul>		<ul><li>(b) A circle of consta</li><li>(d) An ellipse</li></ul>	intly decreasing radius

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30. According to Bohr's theory of hydrogen atom, the radii  $R_n$  of stationary electron is given by the equation

(a) 
$$R_n = \frac{ke^2}{mv_n^3}$$

(b) 
$$R_n = \frac{ke^2}{mv_n^2}$$

(a) 
$$R_n = \frac{ke^2}{m{v_n}^3}$$
 (b)  $R_n = \frac{ke^2}{m{v_n}^2}$  (c)  $R_n = \frac{e^2}{m{v_n}^2}$  (d)  $R_n = \frac{he^2}{m{v_n}^2}$ 

(d) 
$$R_n = \frac{he^2}{mv_n^2}$$

#### **ENGLISH: ENGLISH:**

Directions: For each question below you are given choices. SELECT ANY ONE THAT IS MOST APPROPRIATE ANSWER

#### SENTENCE COMPLETION

#### Directions for O 1 - 3

Each sentence below has one or two blanks, each blank indicating that something has been omitted. Beneath in sentence are five lettered words or sets of words. Choose the word or set of words that best fits the meaning of the sentence as a whole.

Miss Watson termed Hock's behavior \_\_\_\_\_ because in her opinion noting could excuse his deliberate disregard of her commands.

A. devious

B. intolerant

C. Irrevocable

D. indefensible

E. Boisterous

Either the surfing at Maui is , or I went there on an off day.

A. Consistent

B. Thrilling

C. Invigorating

D. Overrated

E. Scenic

Your \_\_\_\_\_ remarks spoil the effect of your speech; try not to stray from your subject.

A. innocuous

B. Digressive

C. Derogatory

D. Persistent

E. Enigmatic

#### ANALOGIES

Direction: Each question below consists of a related pairs of words or phrases, followed by five lettered pairs of words or phrases, Select the lettered pair that best expresses a relationship similar to that expressed in the original pair.

4. TELLER: BANK::

(a) Artist: museum (b) Cashier: check (c) Waiter: restaurant (d) Borrower: loan (e) Mourner: funeral

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5. INNING: BASEBALL::

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(a) round : boxing(b) puck : hockey

(c) touchdown: football

(d) serve : tennis(e) outing : hiking

6. DEGREE: TEMPERATURE::

(a) ounce: weight(b) fathom: volume(c) mass: energy(d) time: length(e) light: heat

7. PICK: GUITAR::

(a) peg : ukelele(b) string : banjo(c) pipe : organ(d) bow : violin

(e) head: tambourine

#### **ANTONYM**

<u>Direction</u>: In each of the following antonym questions, a word printed in capital letters precedes five lettered words or phrases. From these five lettered words or phrases, pick the one most nearly <u>opposite</u> in meaning to the capitalized word.

8. NERVOUS:

Courageous (A) (B) **Puzzle** (C) Bold (D) Trainee **NOTORIOUS:** 9. Renowned Invincible (C) Inactive (D) Fashionable (A) (B) 10. **NOCTURNAL**: Patrolling Daily (A) (B) (C) Harsh (D) Marauding 11. **OBDURATE**: (A) Fleeting (B) Finite (C) Yielding (D) Permanent

#### READING COMPREHENSION

**Direction:** Please read the passage below and answer the questions on the basis of what is stated or implied.

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#### Passage:

To be happy and really safe, one ought to have at least two or three hobbies and they must all be real. It is no use starting late in life to say "I will take an interest in this or that". A man may acquire great knowledge of topics unconnected with his daily work and yet hardly get any benefit or relief.

#### **QUESTIONS**

1. The writer argues that for real happiness

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Two or three hobbies are essential

Hobbies should be interesting

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- More than one hobbies are preferable
- Hobbies are quite important
- The phrase 'ought to' in the first sentence suggests 2.
  - A) Liking
  - C) Compulsion
- The words 'this or that' in the second sentence refer to 3.
  - A) Hobbies
  - C) Daily work
- **Topics** B)

D)

B)

- D) None of the above

Likelihood

Preference

- Select the choice closest in meaning to the word 'hardly' in the last sentence
- A) Rarely

4.

C) Infrequently

- Never
- D) Scarcely

## **END OF TEST**

#### For Answer Key:

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