

www.entrytest.com

# NFC IET INSTITUTE OF ENGINEERING AND TECNOLOGICAL Training MULTAN

				Ad	lmission	Sam	ple T	<u>Cest 01</u>			
		- S: For each quest PROPRIATE ANSWI	ER <b>ALL AN</b> S ERS MUST E	SWER BE IND	MUST BE ICATED B	<b>GIVEN</b> Y LETT	ON TI ERS (A,	<b>HE ANSWEI</b> B, C, D) AN	<b>R SHEET.</b> D NOT BY TH	E WOR	DS THEMSELVES. hat,
	(a) (c)	The mass of the The energy of li speed	electrons	increa	ases	(b) (d)	Ligh The	nt consists t	the photons of trons are ide	or quar	nta
2.		elevator initially a ple pendulum in t Increase and the decrease	he elevato	_		e and t		ends with u	niform spee Increase	d. Time	-
3.	A si (a)	mple arrangemen Voltmeter	t by mean (b)		hich e.m		(c)	•	own	(a)	None of the above
4.	The	physics underlying	ng the ope	eration	of a refri	igerato	r most	t closely res	sembles the	physics	s underlying,
	(a)	The freezing of water	(b)	The	melting o	of ice	(C)	The evapor	ration of	(d)	A heat engine
5.	dowr	certain body of r	of weight	t is		zontal					ne then  None
6.	each	.mgCosθ plane faces of two n other to form a u in a real, inverted	usual conv	ıl plan vex ler	ns. The di	stance	from t	aving focal	_	_	ressed against
	(a)	40 cm	(b)	80 cr	n		(c)	20 cm		(d)	60 cm
7.		law which gives Newton's law o Second law of n	f gravitati		rce is		(b) (d)		v of motion of motion		
8.	Hyg	rometer is an inst	trument us	sed for	r measuri	ng					
	(a)	The compressio temperature		· vapo	ur with		(b)	atmosphe		vapou	r in the
0	(c)	Specific gravity					(d)	The dens	ity of air		
9.	An 1	inertial frame of r	eterence 1	s one	wnose:						

Career Channel News: <a href="https://www.entrytest.com/rss/default.aspx">www.entrytest.com/rss/default.aspx</a> (Meets your all Educational Needs)

For Answers: <a href="https://www.entrytest.com/testprep/answers.aspx">www.entrytest.com/testprep/answers.aspx</a>

(a) Acceleration is zero

Phone: +92 61 4550698 +92 61 814 3333 Page 1

(b) Velocity is changing with time



www.entrytest.com

			c		(1)					
10	(c)	Acceleration is uni			(d)		ia is not zer			
10.	A m	noving car whose eng	gine is	switched off. comes t	o rest a	fter so	me time du	e to:		Earth's
	(a)	Inertia	(b)	Its mass	(c)	Frict	ion		(d)	gravitation
11.	(a) (b)		-	e instantaneously after instantaneously after o						•
12.	Acc (a)	ording to the second Fores	law o	f motion, acceleration Time	is prop (c)	ortion Mass			(d)	Distance
14.	Who		d at 2f B)	of convex lens then t At 2f	the imag	-	ned behind ond 2f	the lead		ll be Between f and 2f
15.	When	the object is placed	at prin	cipal focus of a conve	ex lens	then th	ne image is t	forme	d at	
	A)	Same distance	B)	Infinity	C)	Same	side of lens	s D)	)	Centre of curvature
16.	Which	n one of the followin	g cann	ot measure wavelengt	th of X-	rays ii	n any way			
		Bragg's law	B)	Diffraction grating	C)	•	oton effect	D)	1	Photo electric effect
17.		n one of the followin Interference	g prop B)	erties is not found in l Diffraction	both sou		d light ization	D)	ı	Reflection
18.		e relation between tir $T = 2 \pi \omega$	-	iod T and angular velop) $T = \omega/2\pi$	ocity ω	_	en by $T = 2\pi / \alpha$	)	(d)	$T = v \omega$
19.	Wh (a)	ten a body moves in $0^0$		e, the angle between in $45^{\circ}$	ts linea	r veloc (c)	eity v and ar 90 <sup>0</sup>	ıgular	veloc (d)	0
20.	П r (a)	adians = $90^0$	(b)	180 <sup>0</sup>		(c)	$60^{0}$		(d)	$30^{0}$
21.	In r	racing car moving alo	ong a c	circular path the friction	on at the	e whee	els and bank	ing of	f road	ls provides the
	(a)	Centripetal Force	e (b)	Centripetal Acceleration		(c)	Centre of Mass		(d)	Centrifugal Force
22.		e time period is defin One radian		the time required to trans) 180 degrees	averse .		. by a revol One revol	_	-	90 degrees
23.	W1 (a)	_	-	eles can induce artifici β-particle			ity in certair article			of the above
24.		entify the alpha-partical	cle?	) <sub>1</sub> H <sup>2</sup>	(c	) <sub>1</sub> H <sup>3</sup>	3 (	d)	$_{2}\mathrm{He}^{4}$	
25.	Wl (a)	ŭ		eles move with velocit  β-particle		ht?	article	(d)	All c	of the above

Career Channel News: <a href="https://www.entrytest.com/rss/default.aspx">www.entrytest.com/rss/default.aspx</a> (Meets your all Educational Needs)

For Answers: <a href="https://www.entrytest.com/testprep/answers.aspx">www.entrytest.com/testprep/answers.aspx</a>

Phone: +92 61 4550698 +92 61 814 3333



www.entrytest.com

26.	The	e torque on a body wil	l be ze b.	ero if the angle between $180^0$	n r a c.	nd F is zero or: $270^0$	d.	None
27.				ly of mass 10 kg movin	-	•		
	a.	10 Joules	b.	20 Joules	c.	5 Joules	d.	2.5 Joules
28.	Wh	nich of the following li	ists of	physical quantities con	sists	only of vectors:		
	a.	Time, temperature,	veloci	ty	b.	Force, volume	, mon	nentum
	c.	Velocity, acceleration	on, ma	iss	d.	Force, accelera	ation,	velocity
29.		wo forces each of mag ultant will be	gnitud	e 5N act along the same	e line	on a body, then	the m	agnitude of their
	a.	5N	b.	10N	c.	20N	d.	30N
30.	The	air between the lens a	nd the	plate in Newton's ring	expo	eriment is replace	ed by	water. The ring pattern
	(a)	Remains the same	(b)	Expands	(c)	Contracts		(d) None of the above

### **COMPUTER**:

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

### ALL ANSWER MUST BE GIVEN ON THE ANSWER SHEET.

YOUR ANSWERS MUST BE INDICATED BY LETTERS (A, B, C, D) AND NOT BY THE WORDS THEMSELVES.

- 1. A computer that accepts handwritten Input on a screen:
- (a) minicomputer
- (b) desktop computer
- (c) mainframe
- (d) pen-based computer
- 2. Using computers to design and manufacture products is called
- (a) inscribing
- (b) detailing
- (c) CAD/CAM
- (d) Imaging
- 3. Charles Babbage invented the
- (a) Abacus
- (b) Difference engine
- (c) Mark 1
- (d) Adding machine
- 4. The fourth generation is identified by the
- (a) micro computer
- (b) IBM System / 360
- (c) Microprocessor

Career Channel News: <a href="https://www.entrytest.com/rss/default.aspx">www.entrytest.com/rss/default.aspx</a> (Meets your all Educational Needs)

For Answers: <a href="https://www.entrytest.com/testprep/answers.aspx">www.entrytest.com/testprep/answers.aspx</a>



www.entrytest.com

- (d) Introduction if ICs
- 5. The general purpose processor on a chip is otherwise known as the
- (a) ENIAC
- (b) Microcomputer
- (c) Pocket calculator
- (d) Microprocessor
- 6. The processor is an example of
- (a) software
- (b) a program
- (c) hardware
- (d) an output unit
- 7. Additional data and programs not being used by the processor are stored in
- (a) secondary storage
- (b) input units
- (c) output units
- (d) the CPU
- 8. Desktop and personal computers are other names
- (a) micro computers
- (b) mini computers
- (c) mainframes
- (d) peripheral equipment
- 9. What is the octal equivalent of the binary number: 10111101?
- (a) 675
- (b) 275
- (c) 572
- (d) 573
- 10. Which of the following descriptions relates to a floppy diskette:
- (a) RAM
- (b) Double sided double density
- (c) 33 MHz
- (d) 40 MB capacity
- 11. Step by step instructions that run the computer are
- (a) hardware
- (b) CPUs
- (c) Programs
- (d) Documents
- 12. Assembly languages or symbolic languages use
- (a) binary code
- (b) abbreviations for instructions
- (c) numbers
- (d) English words
- 13. Rearranging data in a new sequence is known as:

Career Channel News: www.entrytest.com/rss/default.aspx(Meets your all Educational Needs)

For Answers: <a href="https://www.entrytest.com/testprep/answers.aspx">www.entrytest.com/testprep/answers.aspx</a>



www.entrytest.com

- (a) Updating
- (b) Batching
- (c) Sorting
- (d) Summarizing
- 14. A pictorial screen symbol that represents a computer activity is called a(n)
- (a) pointer
- (b) touch screen
- (c) icon
- (d) MICR
- 15. A disk pack within a sealed data module is a
- (a) backup unit
- (b) Winchester
- (c) Diskette
- (d) CE-ROM
- 16. A way of physically organizing data on a disk pack to minimize seek time uses
- (a) sequential file
- (b) removable hard
- (c) the cylinder method
- (d) Winchester technology
- 17. The speed with which a disk can find data being sought is called
- (a) access time
- (b) data transfer time
- (c) direct time
- (d) cylinder time
- 18. The disk storage that uses both a magnet and a laser beam
- (a) hashing
- (b) magneto-optical
- (c) CD-ROM
- (d) WORM
- 19. Which is not a benefit of secondary storage?
- (a) convenience
- (b) DAT
- (c) Economy
- (d) Space
- 20. Before a sequential file can be updated the transactions must be first
- (a) numbered
- (b) labeled
- (c) updated
- (d) sorted
- 21. Time sharing of recourses by users is usually
- (a) based on time slices
- (b) based on input
- (c) event-driven

Career Channel News: www.entrytest.com/rss/default.aspx(Meets your all Educational Needs)

For Answers: <a href="https://www.entrytest.com/testprep/answers.aspx">www.entrytest.com/testprep/answers.aspx</a>



www.entrytest.com

- (d) operated by spooling
- 22. Management of an operating system is handled by
- (a) by interpreter
- (b) the supervisor program
- (c) utility program
- (d) the CPU
- 23. The process of allocating main memory to programs and keeping the programs in memory for execution as needed is called
- (a) memory allocation
- (b) memory management
- (c) virtual storage
- (d) real storage
- 24. The type of modulation that changes the height of the signal is called
- (a) frequency
- (b) phase
- (c) amplitude
- (d) prophase
- 25. The signals produced by a computer pr terminal to be sent over phone lines must be converted to
- (a) Modems
- (b) Analog signals
- (c) Digital signals
- (d) Microwaves

### **MATHEMATICS:**

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

ALL ANSWER MUST BE GIVEN ON THE ANSWER SHEET.

YOUR ANSWERS MUST BE INDICATED BY LETTERS (A, B, C, D) AND NOT BY THE WORDS THEMSELVES.

1.	Which of the	e following l	ists of ph	ysical qu	uantities o	consists onl	y of vector	s:

(a) Time, temperature, velocity

(b) Force, volume, momentum

(c) Velocity, acceleration, mass

- (d) Force, acceleration, velocity
- 2. If  $(\vec{a} \times \vec{b})$  points along negative z-axis, then the vectors  $\vec{a}$  and  $\vec{b}$  must lie in
  - (a) .zx-plane

(b) .yx-plane

(c) .xy-plane

(d) None of the above

- 3.  $k \times \hat{i} = \dots$ 
  - (a) j

(b) - i

- (c) k
- (d) k

4. What must be changing when a body is accelerating uniformly along a straight path?

(a) The force acting on the body

(b) The velocity of the body

(c) The mass of the body

(d) The speed of the body

Career Channel News: <a href="https://www.entrytest.com/rss/default.aspx">www.entrytest.com/rss/default.aspx</a> (Meets your all Educational Needs)

For Answers: <a href="https://www.entrytest.com/testprep/answers.aspx">www.entrytest.com/testprep/answers.aspx</a>

Phone: +92 61 4550698 +92 61 814 3333



www.entrytest.com

5.		horizontal range 30 <sup>0</sup>	e of a proje (b)			m wher	it is th		n at what angle $60^0$	with (d		ertain velocity?
6.		atrooper jumpii Equilibrium				-		nic E	quilibrium	(d)	)	None
7.	The t	orque on a body 90 <sup>0</sup>	y will be zo (b)	ero if t	he angle b	etweer	$\vec{r}$ and	l F is (c)	zero or: 270 <sup>0</sup>	(d)	ľ	None
8.	value	of g will be mu	ultiplied by	7?		listance	equal					of the earth, the
	(a)	1/2	(b	) 9/1	6			(c)	1/9	(	d)	16/9
		rtain values F ar ) <sup>0</sup>		done i $30^0$	s zero wh	en the	angle b	etwe (c)	en the force and $90^0$	-	olac d)	tement is: 180 <sup>0</sup>
10.		Force acting on a Gravitational m	-	he grav ) We		field at	any po		s equal to its: Acceleration	(	d)	Inertia
11.		t is kinetic energ 10 Joules	gy of a boo (b		nass 10 kg Joules	movin	g with	velo (c)	city 1m/s <sup>2</sup> ? 5 Joules	(	d)	2.5 Joules
12.		ple harmonic m .a α– x		athema .a α	• •	presente	ed as (c)	Vo	<i>t</i> − x	(d)	F	α– x
12	` '		` '				(0)	• 0	A	(u)	•	w A
13.		frequency of se 1 hertz	-	2 he			(c)	0.5	hertz	(d)	N	one of the above
14.	A bo	ody with frequen	ncy f woul	d com	plete one	vibratio	on in					
	(a)	F seconds	(b)	$\frac{1}{f}$ so	econds		(c)	1 se	econd	(d)	$\frac{1}{T}$	seconds
15.	The	rate of evaporat	tion depen	ds upo	n:							
	(a)	Nature of liqui	d				(b)	The	temperature of	f liqui	id a	and air
	(c)	The area of the	e exposed	surface	of the liq	luid	(d)	All	of the above			
16.	The	saturated vapou	ır praecura	of a m	ivan liqui	de.						
10.	(a)	Increases with	-	_	_	13.	(b)	Dec	creases with rise	e in te	emi	perature
	` /	May increase of		-			` ′		nains unchange		-	•
	(c)	temperature					(d)	tem	perature			
17.		pose the co-efficient of volume		-	-				6 per degree C	. Wha	at w	vill be the co-
	(a)	Same as that of		-		1	(b)		o times as that	of line	ear	expansion
	(c)	Three times as	that of lin	ear exp	pansion		(d)	One	e half as that of	linea	r e	xpansion
18.	Leng	gth of metal rod imeters will it c	is 100 cm	and co	o-efficient oled throug	t of line gh 50 <sup>0</sup>	ear expa C?	ansio	n of metal is 0.	00002	2K	-1 By how many
	(a)	1.001	(b)	0.15	0	-	(c)	0.0	01	(d)	0.	01
19.	The	Coulomb force	in a mediu	ım of 1	elative pe	rmittiv	ity $\varepsilon$ , is	give	en by:			
					-		- ,	-	=			

Career Channel News: <a href="https://www.entrytest.com/rss/default.aspx">www.entrytest.com/rss/default.aspx</a> (Meets your all Educational Needs)

**For Answers:** www.entrytest.com/testprep/answers.aspx



path is

### Career Channel

(b) A circle of constantly decreasing radius

(d) An ellipse

www.entrytest.com

F

	(a) F	$E' = \frac{\mathcal{E}_r}{F}$	(b)	$F' = \frac{F}{\varepsilon_r}$		(c)	$F^{\prime}=F_{\varepsilon_{\rm r}}$		(d)	$\mathbf{F}' = \frac{\mathbf{F}}{\varepsilon_0 \varepsilon_r}$
20.	(a) 1	city of a capacitor dep The distance between The size of the plates	the 1	•	(b) (d)		e nature of the	dielec	etric l	petween the plates
21.	given						•			
	(a) F	$F_{\rm m} = q \ {\rm v} \times {\rm B}$	(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.		stance which behave Magnets		e a magnet in the pre Ferro magnets						called  None of the above
23.	In a ci	rcuit, if a resistance	of th	e conductor is incre	ased	then	current in the	e circui	it wil	l:
	(a) I	ncrease	(b)	Decrease (c) R	Rema	in th	e same (d)	First i		ase and then
24.	The pl	henomenon that the red:	resist	ance of a metal falls	exac	etly t	to zero at a fev	w degre	ees al	bove absolute zero
	(a) (	Conductivity	(b)	Low conductivity	(c)	Sι	uper-conductiv	vity	(d)	Low resistivity
25.	Why s	should a resistance be	e intr	oduced in a circuit i	n ser	ies d	leliberately?			
	(a) a	To increase current and decrease Voltage	(b)	To decrease curren and voltage	t	(c)	To make cur zero	rent	(d)	To make voltage zero
26.		ouse circuit, all elect	rical	appliances are conn	ected	in p	parallel to each	other	betw	veen the line and
		Same current and diff	erent	t voltage	(b)	S	ame current ai	nd sam	e not	tential difference
	(c) I	Different current but lifference		•	(d)	D			-	erent potential
27.	Power	r dissipated in a circu	iit in	the form of 'V' and	'R' (	ean t	oe determine a	ıs:		
	(a) F	$P = \frac{V}{I}$	(b)	$P = \frac{V^2}{R}$		(c)	$P = \frac{R}{V^2}$		(d)	$P = \frac{I}{V^2}$
28.	•	n series lies in Visible region	(b)	Ultra violet region	(c)	In	fra red region	(d)	Far	-infra red region
29.	, ,	ding to Bohr's theor	` '	<u>C</u>	` '		•	, ,		•

F

According to Bohr's theory of hydrogen atom, the radii R<sub>n</sub> of stationary electron is given by the equation

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

Career Channel News: <a href="https://www.entrytest.com/rss/default.aspx">www.entrytest.com/rss/default.aspx</a> (Meets your all Educational Needs)

For Answers: www.entrytest.com/testprep/answers.aspx

(a) A spiral of increasing radius

(c) A circle of an allowed radius

Phone: +92 61 4550698 +92 61 814 3333



www.entrytest.com

# ENGLISH:

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

#### SENTENCE COMPLETION

### Directions for Q 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.

1.		s Watson termed Hock's behavior	_because in l	her opinion noting could excuse his
	deli	berate disregard of her commands.		
	A.	devious	В.	intolerant
	C.	Irrevocable	D.	indefensible
	E.	Boisterous		
2.	Eith	ner the surfing at Maui is, or I we	nt there on a	n off day.
	A.	Consistent	B.	Thrilling
	C.	Invigorating	D.	Overrated
	E.	Scenic		
3.	You	ar remarks spoil the effect of you	ır speech; try	not to stray from your subject.
	A.	innocuous	В.	Digressive
	C.	Derogatory	D.	Persistent
	E.	Enigmatic		

#### **ANALOGIES**

<u>Direction:</u> 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
- 5. INNING: BASEBALL::
  - (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

Career Channel News: www.entrytest.com/rss/default.aspx(Meets your all Educational Needs)

For Answers: <a href="https://www.entrytest.com/testprep/answers.aspx">www.entrytest.com/testprep/answers.aspx</a>



www.entrytest.com

(d) time: length(e) light: heat7. PICK: GUITAR::(a) peg: ukelele

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

#### **READING COMPREHENSION**

A) Rarely

C)

Infrequently

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

### 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		
	A) More than one hobbies are preferable	B)	Two or three hobbies are essential
	C) Hobbies are quite important	D)	Hobbies should be interesting
2.	The phrase 'ought to' in the first sentence suggests		
	A) Liking	B)	Likelihood
	C) Compulsion	D)	Preference
3.	The words 'this or that' in the second sentence refer to	)	
	A) Hobbies	B)	Topics
	C) Daily work	D)	None of the above
4.	Select the choice closest in meaning to the word 'hard	lly' in 1	the last sentence

Career Channel News: www.entrytest.com/rss/default.aspx(Meets your all Educational Needs)

Never

Scarcely

For Answers: <a href="https://www.entrytest.com/testprep/answers.aspx">www.entrytest.com/testprep/answers.aspx</a>



www.entrytest.com

### **END OF TEST**

For Answer Key:

www.entrytest.com/testprep/answers.aspx



Career Channel News: <a href="https://www.entrytest.com/rss/default.aspx">www.entrytest.com/rss/default.aspx</a> (Meets your all Educational Needs)

For Answers: <a href="https://www.entrytest.com/testprep/answers.aspx">www.entrytest.com/testprep/answers.aspx</a>