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5. In the expansion of  $(a + x)^n$  the sum of exponents of a and x in each term of the expansion is







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16 If  $f(x) = x^3 - 2x^2 + 4x - 1$  then f(0) is A) B) 1 0 C) -1 None of these D) < 17 F(x) = x is **Trigonometric function** B) **Exponential function** A) Quadratic function D) None of these C) 18  $F(x) = \tan x$  is Odd function Even function B) A) None of these C) Linear function D) 19 If f is a bijective a function then  $f(f^{-1}(x))$  is A) X B) D) C) 1 -1 Downloaded More Sample Papers from: www.entrytest.com For Online Test Preparation: www.thecatonline.com 20 sin ax lim  $\sin bx$  $\frac{b}{a}$ 1 A) B) None of these C) D) 21 If  $f(x) = \tan^{-1} x$  then f (tan x) = B) -1 D) 2  $\frac{d}{d} \left[ \tan^{1} x \right] =$ 





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38 The position vector of the point P (a, b, c) is  
A) 
$$\bar{r} = c\hat{i} + b\hat{j} + a\hat{k}$$
B)  $\bar{r} = a\hat{i} + c\hat{j} + b\hat{k}$   
C)  $\bar{r} = b\hat{i} + a\hat{j} + c\hat{k}$ 
D)  $\bar{r} = a\hat{i} + b\hat{j} + c\hat{k}$ 



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	3 hamburgers at \$0.96 apiece and 2 milk shakes at \$1.28 apiece. How much money does Jack have?									
	A.	\$1.60	В.	\$2.24	C.	\$1.72	D.	\$3.36	E.	\$5.44
6.	If a photocopier makes 2 copies in $\frac{1}{3}$ seconds, then at the same rate, how many copes does it make in 4									
	minu	ites?								
	A.	360	В.	480	C.	576	D.	720	E.	1.440
7.	The price of a certain television set is discounted by 10 percent, and the reduced price is then discounted									
	10 percent. This series of successive discounts is equivalent to a single discount of									
	Α.	20%	В.	19%	C.	18%	D.	11%	E.	10%
8.	If $\frac{2}{1+\frac{2}{y}} = 1$ , then $y =$									
	Α.	-2	В.	$-\frac{1}{2}$	C.	$\frac{1}{2}$	D.	2	E.	3
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For C	Dnlin	e Test Prep	arati	on: www.thec	aton	line.com				
9.	If a rectangular photograph that is 10 inches wide by 15 inches long is to be enlarged so that the width									at the width
	will be 22 inches and the ratio of width to length will be unchanged, then the length, in inches, of the									hes, of the
	enlarged photograph will be									
	Α.	33	B.	32	C.	30	D.	27	E.	25
10.	If <i>m</i> is an integer such that $(-2)^{2m} = 2^{9-m}$ , then $m =$									
	А.	1	В.	2	C.	3	D.	4	E.	6
<u>PHYSIC</u>	<u>:S</u>	•								



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	A ) 1/27 %	B)	3/10 %	C)	1/3 %	6	D)	1%	5	
6.	An alternative form	of the ι	unit of resistance, th	ne ohm is	5 V A <sup>-1</sup>					
	Which of the follow	ing exar	nple shows a simila	r correct	alter	native form	of unit?			
	A coulomb (C) As	-1 B)	farad (F) V C $^{-1}$	C)	Pasc	al (Pa) N m <sup>-</sup>	<sup>2</sup> [	D) volt (V)	JC	
7.	Which of the following quantities has a unit that can be expressed in terms of just two different SI base units? (E) resistance									
	A ) <sup>area</sup>	B)	charge	C)	curre	ent	D)	force		
8.	The base units of th	e SI syst	em include those o	f	(					
	Mass, kg;	lengt	h, m; time, s;ele	ectric cur	rent,	А.				
	Which base units would be needed to express the SI unit of potential difference (the volt)?									
	) kg and A only	B)	kg, m, s, and A	C)	s and	A only	D)	m, s, and	A	
9.	The unit of luminous intensity in SI system of units is									
	(a) Ampere	(b	) Mole		(c)	Candela		(d) Kelvin		
10.	The fundamental unit of angle in a plane in SI system of units is called									
	(a) Rotation	(b	) Degree		(c)	Radian		(d) Cycle		
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11.	What is the unit of	power o	f a lens?							
	(a) Angstrom	(b)	Cycle		(c)	Newton	(d	l) Dioptre		
12.	Significant figures in	n 0.0001	are							
	(a) One	(b)	) Two		(c)	Three	(c	d) Four		
13.	The dimensions of frequency are									
	(a) LT	(b	) LT <sup>-1</sup>		(c)	MT <sup>-1</sup>	(d)	T <sup>-1</sup>		
14.	What is the number	r of sign	ificant zeros in 0.00	112?						
	(a) Zero	(b)	One	(c)	Tw	0	(d)	Three		



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#### ENGLISH

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

#### SENTENCE COMPLETION

#### **Directions for Q1 - 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. The selection committee for the exhibit was amazed to see such fine work done by a
  - mere Connoisseur

B.

Amateur

Artist

- Exhibitionist

D. Entrepreneur



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for

- The teacher suspected cheating as soon as he notice the pupil's \_\_\_\_glances at his classmate's paper.
  - A. Futile
  - C. Furtive
  - E. Inconsequential

- B. Sporadic
- D. Cold
- - A. Recognition....folly
  - C. Reward....modesty
  - E. Credit....altruism

- B. Blame....hypocrisy
- D. Admonishment....wastefulness

#### **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. FISH : SCALES ::
  - (a) plane : wings
  - (b) bird : feathers
  - (c) cat : claws
  - (d) snake : fangs
  - (e) song : notes

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- 5. FISH : SCHOOL ::
  - (a) book : education
  - (b) team : practice
  - (c) dog : sled
  - (d) bear : lair
  - (e) lion : pride
- 6. CLOCK : TIME ::
  - (a) watch : wrist
  - (b) odometer : speed
  - (c) hourglass : sand
  - (d) yardstick : distance



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- (e) radio : sound
- 7. DOCTOR : DISEASE ::
  - (a) moron : imbecility
  - (b) pediatrician : senility
  - (c) psychiatrist : maladjustment
  - (d) broker : stocks
  - (e) charlatan : truth

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(f)

C F

### ANTONYM

**Direction:** 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.	MERR	Y:	(-)					
	(A)	Sad	(B)	Melancholy	(C)	Dety	(D)	Willing
9.	MITIG	ATION:	(D)	Aggrouption		Destriction	(D)	Interrognum
	(A)	Obscenity	(в)	Aggravation	(C)	Restriction	(D)	Interregnum
10.	NEFAF	RIOUS: Benign (B)	Vario		Lacki	ng (D)	Pomn	OUS
	(~)	Dellight (D)	variot		LUCIN		romp	003
							1	
							97	
		TECT	-					
EN	D C	FIES						
For A	Answe	r Key:						
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					_			
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