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### GHULAM ISHAQ KHAN INSTITUTE OF ENGINEERING SCIENCES AND TECNOLOGY (GIKL)

## **Engineering Sample Admission Test 05**

#### **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. The fifth term of the sequence  $a_n = 2n 3$  is\_\_\_\_\_\_
  - A) 13

B) -13

C) 7

- D) -7
- 2. The harmonic mean between a and b is

A) 
$$\frac{a+b}{2}$$

B) 
$$\pm \sqrt{ab}$$

C) 
$$\frac{a-b}{2}$$

D) 
$$\frac{2ab}{a+b}$$

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3. 
$$\frac{8!}{6!} = \frac{1}{100}$$

B) 
$$\frac{1}{56}$$

4. 
$$^{16}C_{11} + ^{16}C_{10} =$$

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A)  $^{16}C_{10}$ 

C) <sup>17</sup>C <sub>10</sub>

B) <sup>15</sup>C <sub>11</sub>

D) <sup>17</sup>C <sub>11</sub>

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

A) N+1

B) n-1

C) N

D) 2n

6. The number of terms in the expansion of  $\left[x^2 - \frac{4}{x^2}\right]^9$  is

A) 8

B) 9

C) 10

D) 11

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7.  $\cos^2\frac{\theta}{2} + \sin^2\frac{\theta}{2} = \underline{\qquad}.$ 

A)

B)

C) 1

D) None of these

8. The area of a sector of a circular region of radius r and central angle  $\, heta\,$  radian s is

A)  $r^2\theta$ 

B)  $\frac{1}{2}r^2\theta$ 

c) re

D)  $\frac{1}{2}r^2\theta$ 

9.  $\cos (2\pi + \theta) =$ \_\_\_\_\_\_.

A) Sin  $\theta$ 

B)  $\cos \theta$ 

C) -sin  $\theta$ 

D)  $-\cos \theta$ 

10 2 sin  $a\cos\beta =$ \_\_\_\_\_.



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A) 
$$\cos(a+\beta)-\cos(a-\beta)$$

C) Sin 
$$(a+\beta)-\sin(a-\beta)$$

B) 
$$\cos(a+\beta)+\cos(a-\beta)$$

D) Sin 
$$(a+\beta)+\sin(a-\beta)$$

11 Period of sin 3x is\_\_\_\_\_.

- A)  $\frac{\pi}{3}$
- C)  $\pi$

- B)  $\frac{2\pi}{3}$
- D)  $2\pi$

12 Range of tan x is\_\_\_\_\_.

- A) I
- $\mathsf{C)} \quad \left[ -\frac{1}{2}, \frac{1}{2} \right]$

- B) [-1,1]
- None of these D)

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13 Sin 
$$\frac{a}{2} =$$
\_\_\_\_\_.

A) 
$$\sqrt{\frac{(s+b)(s+c)}{bc}}$$

C) 
$$\sqrt{\frac{bc}{(s-b)(s-c)}}$$

B) 
$$\sqrt{\frac{(s-b)(s-c)}{bc}}$$

$$\int \int \frac{s(s-a)}{bc}$$

14 In = radius of  $\triangle$  ABC is

A) 
$$R = \frac{\Delta}{s}$$

C) 
$$R = \frac{\Delta}{s - b}$$

B) R= 
$$\frac{abc}{4\Delta}$$

D) 
$$R = \frac{abc}{4s}$$

15 The solution of the equation 3 tan<sup>2</sup> x = 1 is\_\_\_\_\_.

A) 
$$\left\{\frac{\pi}{6} + n\pi\right\} \cup \left\{\frac{5\pi}{6} + n\pi\right\}, n \in \mathbb{Z}$$

B) 
$$\left\{\frac{\pi}{3} + 2n\pi\right\} \left\{\frac{2\pi}{3} + 2n\pi\right\}, n \in \mathbb{Z}$$

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C) 
$$\left\{\frac{\pi}{4} + n\pi\right\} \cup \left\{\frac{5\pi}{4} + n\pi\right\}, n \in \mathbb{Z}$$

None of these D)

16 If  $f(x) = x^3 - 2x^2 + 4x - 1$  then f(0) is

- A) 0
- C) -1

- B) 1
- D) None of these

<

17 F(x) = x is

- A) Trigonometric function
- C) Quadratic function

- B) Exponential function
- D) None of these

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18 
$$F(x) = \tan x$$
 is

- A) Even function
- C) Linear function

- B) Odd function
- None of these

19 If f is a bijective a function then  $f(f^{-1}(x))$  is

- A) X
- C) 1

- B) 0
- D) -1

 $\lim_{x\to 0} \frac{\sin ax}{\sin bx} = \underline{\hspace{1cm}}$ 

- A)
- c)  $\frac{a}{b}$

- B)  $\frac{b}{a}$
- None of these
- 21 If  $f(x) = \tan^{-1} x$  then  $f(\tan x) = \underline{\hspace{1cm}}$ .
  - A) (
  - C) 1

- B) -1
- D) 2

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 $\frac{d}{dx}\left[\tan^{1}x\right] = \underline{\qquad}.$ 

$$A) \quad \frac{1}{x\sqrt{x^2-1}}$$

$$\frac{d}{dx}(\cosh 2x) = \underline{\qquad}.$$

24 If  $f(x) = \tan^{-1} x$  then  $f(\tan x) =$ \_\_\_\_\_.

A) 
$$\frac{1}{1+x^2}$$

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25 The function  $f(x) = 3x^2$  has extreme value at

A) 
$$X = 1$$

C) 
$$X = 6$$

 $\int \frac{2x-1}{x^2-x+1} dx = \underline{\hspace{1cm}}$ 

A) 
$$\frac{1}{2}(x^2-x+1)^2+c^2$$

C) 
$$\frac{x^3}{3} - \frac{x^2}{2} + x + c$$

$$\int \frac{e^{x} - e^{-x}}{e^{x} + e^{-x}} dx = \underline{\qquad}$$

A) In 
$$|e^x - e^{-x}| + c$$

B) In 
$$(x^2 - x + 1) + c$$

In 
$$(2x - 1) + c$$

B) In 
$$|e^{x} + e^{-x}| + c$$

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C)  $E^{x} + e^{-x} + c$ 

D)  $E^{x} - e^{-x} + c$ 

28  $\int e^{x} \left[ \tanh^{-1} x + \frac{1}{1 - x^{2}} \right] dx = \underline{\qquad}$ .

- A)  $e^{x} \tan h^{-1} x + c$
- $C) \qquad \frac{e^x}{1-x^2} + c$

- B)  $e^{x} \cot h^{-1} x + c$
- $e^x$  cosec  $h^{-1}x + c$

 $\int_{0}^{2} x^{2} dx =$ \_\_\_\_\_.

- A)  $\frac{2}{3}$
- c)  $\frac{8}{3}$

- B)  $\frac{4}{3}$
- None of these

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30 The mid point of the line segment joining the points A (-B, 3) an B(2, -1) is

A) (-3, 1)

B) (-6, 2)

C) (5, 2)

D) (-5, 2)

31 the centroid of a triangle divides each median in the ratio

A) 2:1

B) 3:1

C) 3:2

D) 1:1

32 The point P  $(x_1, y_1)$  is on the line ax +by +c = 0 if

A)  $Ax_1 + by_1 + c = 0$ 

B)  $Ax_1 + by_1 + c < 0$ 

C)  $Ax_1 + by_1 + c > 0$ 

D) None of these

33 The area of the triangular region with vertices  $A(x_1, y_1) B(x_2, y_2)$ ,  $C(x_3, y_3)$  is

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A) 
$$\begin{vmatrix} x_1 y_1 1 \\ x_2 y_2 1 \\ x_3 y_{31} \end{vmatrix}$$

B) 
$$\frac{1}{2} \begin{vmatrix} x_1 y_1 1 \\ x_2 y_2 1 \\ x_3 y_{31} \end{vmatrix}$$

c) 
$$\begin{vmatrix} x_1 y_1 1 \\ x_2 y_2 1 \\ x_3 y_{31} \end{vmatrix}$$

D) 
$$\frac{1}{4} \begin{vmatrix} x_1 y_1 1 \\ x_2 y_2 1 \\ x_3 y_{31} \end{vmatrix}$$

34 X = x is in the solution of the inequality

A) 
$$X > 0$$

B) 
$$3x + 4 < 0$$

C) 
$$X + 3 < 0$$

D) 
$$X - 2 < 0$$

35 The line y = mx + x is tangent to he circle  $x^2 + y^2 = a^2$  if

A) 
$$C = \pm a\sqrt{1 + m^2}$$

B) 
$$C = \pm a\sqrt{1 - m^2}$$

C) 
$$C = \pm m\sqrt{1 + a^2}$$

D) 
$$C = \pm m\sqrt{1 - a^2}$$

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The foci of the ellipse 
$$\frac{x^2}{h^2} + \frac{y^2}{a^2} = 1a$$
. b are

A) 
$$(\pm c,0)$$

B) 
$$(0,\pm c)$$

c) 
$$(\pm a,0)$$

D) 
$$(0,\pm a)$$

The length of major axis of the ellipse 
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$
, a> b is

C) 2b

38 The position vector of the point P (a, b, c) is

A) 
$$\vec{r} = c\hat{i} + b\hat{j} + a\hat{k}$$

B) 
$$\bar{r} = a\hat{i} + c\hat{j} + b\hat{k}$$

$$\vec{r} = b\hat{i} + a\hat{j} + c\hat{k}$$

D) 
$$\bar{r} = a\hat{i} + b\hat{j} + c\hat{k}$$

39 The vectors intersecting at a single point are called

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A) Collinear vectors

C) Perpendicular

B) Concurrent vectors

D) None of these

40 A unit vector along 2  $\hat{i} + \sqrt{5\hat{j} + 4\hat{k}}$  is

A) 
$$\frac{2}{5}\hat{i} + \frac{\sqrt{5}}{5}\hat{j} + \frac{4}{5}\hat{k}$$

C)  $\hat{i} + \hat{j} + \hat{k}$ 

B)  $\frac{2}{\sqrt{5}}\hat{i} + \hat{j} + \frac{4}{\sqrt{5}}\hat{k}$ 

D) None of these

#### **GENERAL MATH:**

**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.** 

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BY THE WORDS THEMSELVES.

1. If Mario was 32 years old 8 years ago, how old was he x years ago?

A. x - 40

B. x - 24

C. 40 - x

D. 24 - x

E. 24 + x

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2. Running at the same constant rate, 6 identical machines can produce a total of 270 bottles per minute.

At this rate, how many bottles could 10 such machines produce in 4 minutes?

A. 648

B. 1,800

**c**. 2,700

D. 10,800

E. 64,800

3. Three business partners, Q, R, and S, agree to divide their total profit for a certain year in the ratios 2: 5:

8, respectively. If Q's share was \$4,000, what was the total profit of the business partners for the year?

A. \$26,**0**00

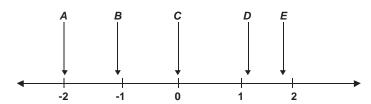
B. \$30,000

C. \$52,000

D. \$60,000

E. \$300,000

4.



Of the five coordinates associated with points A, B, C, D, and E on the number line above, which has



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the

greatest absolute value?

- A. *A*
- B. *B*
- C. *C*

- D. *D*
- E. *E*
- 5. A restaurant meal cost \$35.50 and there was no tax. If the tip was more than 10 percent but less than 15

percent of the cost of the meal, then the total amount paid must have beet between

- A. \$40 and \$42
- B. \$39 and \$41 C.
- C. \$38 and \$40 D.
- D. \$37 and \$39
- . \$36 and #37
- 6. Harriet wants to put up fencing around three sides of her rectangular yard and leave a side of 20 feet unfenced. If the yard has an area of 680 square feet, how many feet of fencing does she need?
  - A. 34
- B. 40
- C. 68
- D. 88
- E. 102

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- 7. If  $u \otimes t$ ,  $r \otimes q$ ,  $s \otimes t$ , and  $t \otimes r$ , which of the following must be true?
  - $I. \qquad u > s$
  - II.  $s \otimes q$
  - III.

I only

- $u \odot r$ B. II only
- C. III only
- D. I and II only
- E. II and III only
- 8. Increasing the original price of an article by 15 percent and then increasing the new price by 15 percent

is equivalent to increasing the original price by

A.

A.

- 32.25%
- B. 31.00%
- C. 30.25%
- D. 30.00%
- E. 22.50%
- 9. If k is an integer and 0.0010101 x  $10^k$  is greater than 1,000, what is the least possible value of k?
  - A. 2
- B. 3
- C. 4

- D. 5
- E. 6

10. If  $(b-x)(4+\frac{2}{b}) = 0$  and  $b \ne 3$ , then b =

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A. -8

B. –2

C.  $-\frac{1}{2}$ 

D.

E. 2

#### **PHYSICS**

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

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1. Physics is the study of

a Matt ) er

(b) Energy

(c) Relation between matter & energy

(d) All of the above

2. The branch of physics which deals with the properties, and interaction of nuclear particles (protons and neutrons) is called

( a

a Molecular physics

(b) Plasma physics

c) Nuclear physics

(d) Solid state physics

3. When comparing systematic and random errors, the following pairs of properties of errors in an experimental measurement may be contrasted:

P<sub>1</sub>: error can possibly be eliminated

 $P_2$ : error cannot possibly be eliminated

Q<sub>1</sub>: error is of constant sign and magnitude

Q2: error is of varying sign and magnitude

 $R_1$ : error will be reduced by averaging repeated measurements

R<sub>2</sub>: error will not be reduced by averaging repeated measurements

Which properties apply to random errors?

 $P_1, Q_1, R_2$ 

B) P<sub>2</sub>, Q<sub>2</sub>, R<sub>1</sub>

C)  $P_1$ ,  $Q_2$ ,  $R_2$ 

D)  $P_2, Q_1, R_2$ 

In a simple electrical circuit, the current in a resistor is measured as  $(2.50\pm0.05)$  mA. The resistor is marked as having a value of  $4.7\Omega \pm 2\%$ . If these values were used to calculate the power dissipated in the resistor, what would be the percentage uncertainty in the values obtained?

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		A ) 2%	B)	4%	C)	6%	D)	8%		
	5.	The dimension of a cube are measured with dernier calipers. The measured length of each side is mm. If the dernier calipers can be read with an uncertainty of $\pm 0.1$ mm, what does this give for the approximate uncertainty in the value of its volume?								
		A ) 1/27 %	B)	3/10 %	C)	1/3 %	D)	1%		
	6.	An alternative form o	f the u	nit of resistance, the	ohm is	V A <sup>-1</sup>				
		Which of the following example shows a similar correct alternative form of unit?								
		A coulomb (C) As <sup>-1</sup>	B)	farad (F) V C <sup>-1</sup>	C)	Pascal (Pa) N m <sup>-2</sup>	D)	volt (V) JC		
	7.	Which of the followin base units? (E) resista		ntities has a unit that o	can be	expressed in terms	of just t	wo different S		
		A ) area	B)	charge	C)	current	D)	force		
	8.	The base units of the	SI syst	em include those of						
		Mass, kg;	lengtl	n, m; time, s;elect	ric cur	rent, A.				
		Which base units would be needed to express the SI unit of potential difference (the volt)?								
		A kg and A only	В)	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 ang	gle in a plane in SI syst	tem of	units is called				
		(a) Rotation	(b)	Degree		(c) Radian	(d)	Cycle		
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	11.	What is the unit of po	wer o	f a lens?						

12. Significant figures in 0.0001 are

Angstrom

(a) One (b) Two (c) Three (d) Four

(c)

Newton

(b) Cycle

13. The dimensions of frequency are

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Dioptre



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		(a)	LT		(b) L	.T <sup>-1</sup>		(c	:) MT <sup>-1</sup>	(d)	T <sup>-1</sup>	
14	4.	Wh	at is the num	ber of sig	nifica	nt zeros in 0.0	0112	!?				
		(a)	Zero	(b)		One	(c)	-	Two	(d)	Thi	ree
Dowr	ılo	ade	d More Sa	ample	Pape	ers from: w	/WW	.entryte	est.com			
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	15. A scalar is a physical quantity which is completely specified by											
		(a)	Direction on	ıly (b)	Ma	gnitude only	(c )	Both m	agnitude on	& (c	None	of these
1	16. Which of the following is a scalar quantity											
		(a)	Density	(b)	Dis	olacement		(c)	Torque	(d)	Weig	ht
1	17. Which of the following is the only vector quantity											
		(a)	Temperati	ure (b	) Er	nergy		(c)	Power	(d)	Mom	entum
1	18. Which of the following lists of physical quantities consists only of vectors:											
		(a)	Time, tempe	rature, v	elocity			(b)	Force, v	olume, mo	mentum	
		(c)	Velocity, acc	eleration	, mass			(d)	Force, acceleration, velocity			
1	19.	9. The rectangular components of a vector have angle between them										
		(a)	00	(b)	60°			(c)	90 <sup>0</sup>	(d)	120 <sup>0</sup>	
2	20. A force of 10N is acting along y-axis. Its component along z-axis is											
		(a)	10N	(b)	201	l .		(c)	100N	(d)	Zero	N
21. Two forces are acting together on an object. The magnitude of their resultant is minimum when the angle between the force is												
		(a)	00	<b>(</b> b)	60 <sup>0</sup>			(c)	120 <sup>0</sup>	(d)	180 <sup>0</sup>	
22. Two forces of 10N and 15N are acting simultaneously on an object in the same direction. Their resultant is												
	1	(a)	Zero	(b)	5N			(c)	25N	(d)	150N	
2	23. If the dot product of two non-zero vectors vanishes, the vectors will be											
		(a)	In the same direction	(b)	Oppo other	site to each	(c )	Perper other	ndicular to	o each	(d)	Zero

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24. If two non-zero vector  $\vec{A}$  and  $\vec{B}$  are parallel to each other, then  $\vec{A}$  .  $\vec{B}$  is equal to

- (a) Zero
- (b) AB

- A + B
- (d)

25. The dot product of two vectors is negative when

- They are parallel vectors
- (b) They are anti-parallel vectors
- They are perpendicular vectors (c)
- (d) None of the above is correct

26. The vector product of two vectors is zero, when

They are parallel to each other (a)

They are perpendicular to each (b) other

They are equal vectors (c)

They are inclined at angle of 60° (d)

27. If  $(\vec{a} \times \vec{b})$  points along positive z-axis, then the vectors  $\vec{a}$  and  $\vec{b}$  must lie in

(a) Ax-plane

Yx-plane (b)

Xy-plane (c)

None of the above (d)

28. The position vector of a point in xz-plane is given by

- $\vec{r} = x \hat{i} + y \hat{i}$
- (b)  $\vec{r} = y \hat{i} + z k$  (c)  $\vec{r} = x \hat{i} + y \hat{i} + z k$

29. If  $\vec{A} = A_1 \hat{i} + A_2 \hat{j}$  and  $\vec{B} = B_1 \hat{i} + B_2 \hat{j}$  are non-parallel vectors, then the direction of  $\vec{A} \times \vec{B}$  is

- (a) Along  $\vec{B}$
- Along x-axis (b)
- (c) Along y-axis
- (d) Along z-axis

30. If  $\vec{A} \cdot \vec{B} = 0$  and also  $\vec{A} \times \vec{B} = 0$ , then

- $\vec{A}$  and  $\vec{B}$  are perpendicular to each other
- (b)  $\vec{A}$  and  $\vec{B}$  are parallel to each other
- $\vec{A}$  and  $\vec{B}$  are anti-parallel to each other (c)
- Either  $\vec{A}$  or  $\vec{B}$  is a null vector (d)

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**ENGLISH** 

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

The selection committee for the exhibit was amazed to see such fine work done by a

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# CAT

# **Career Channel**

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	mei	re						
	A.	Connoisseur	В.	Artist				
	C.	Amateur	D.	Entrepreneur				
	E.	Exhibitionist						
2.	The teacher suspected cheating as soon as he notice the pupil'sglances at his classmate's paper.							
	A.	Futile	В.	Sporadic				
	C.	Furtive	D.	Cold				
	E.	Inconsequential						
3.		wn for his commitment to numerous worthy ca	uses,	the philanthropist deservedfor				
	his							
	A.	Recognitionfolly	B.	Blamehypocrisy				
	C.	Rewardmodesty	D.	Admonishmentwastefulness				
	E.	Creditaltruism	7					

#### **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. FISH: SCALES::

(a) plane: wings

(b) bird : feathers

(c) cat: claws

(d) snake: fangs

(e) song: notes

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

(e) radio: sound

7. DOCTOR: DISEASE::

(a) moron: imbecility

(b) pediatrician: senility

(c) psychiatrist : maladjustment

(d) broker : stocks(e) charlatan : truth

#### 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.

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(A) Sad

(B) Melancholy

Defy

(D) Willing

9. MITIGATION:

(A) Obscenity

(B) Aggravation

Restriction

(D) Interregnum

10. NEFARIOUS:

(A) Benign (B)

Various

(C) Lacking

(C)

(C)

(D) Pompous

11. NOISOME:

(A) Quiet

(B) Dismayed

(C) Sleepy

(D) Fragrant

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#### **READING COMPREHENSION**

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

#### Passage:

In 1807 Noah Webster began his greatest work, An American Dictionary of the English Language. In preparing the manuscript, he devoted ten years to the study of English and its relationship to other languages, and seven more years to the writing itself. Published in two volumes in 1828. An American Dictionary of the English Language has become the recognized authority for usage in the United States. Webster's purpose in writing it was to demonstrate that the American language was developing distinct meanings, pronunciations, and spellings from those of British English. He is responsible for advancing simplified spelling forms: develop instead of the British form develop; theater and center instead of theatre and centre; color and honor instead of colour and honour.

#### QUESTIONS

12. When as An American Dictionary of the English Language published?

(A) 1817

(B) 1828

(C) 1807

(D) 1824

13. According to this passage, which one of the following spellings would Webster have approved in his dictionaries?

(A) develope

(B) theatre

(C) color

(D) honour

14. According to the author, Webster's purpose in writing An American Dictionary of the English Language was to

(A) respond to the need for new schoolbooks

- (B) demonstrate the distinct development of the English language in America
- (C) promote spelling forms based upon British models
- (D) influence the pronunciation of the English language
- 15. In how many volumes was An American Dictionary of the English Language published?

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(A) one volume

(B) two volumes

(C) three volumes

(D) four volumes

## **END OF TEST**

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



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