

-13

-7

D)

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GHULAM ISHAQ KHAN INSTITUTE OF ENGINEERING SCIENCES AND TECNOLOGY (GIKI)

### Engineering Sample Admission Test 04

#### 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
  - C) 7

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2. The harmonic mean between a and b is





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8.	$\frac{3.003}{2.002}$	$\frac{3}{2} =$									~
	Α.	1.05	В.	1.50015	C.	1.501	D	). 1	5015	E. 1	5
9.	What is the decimal equivalent of $\left(\frac{1}{5}\right)^5$ ?										
	A.	0.00032	В.	0.0016	C.	0.00625	D	). 0	0.008	E. 0	1.03125
10.	Two h	undred gallons	s of fue	el oil are purchase	d at	\$0.91 per gallo	on and a	are co	onsumed a	at a rate	of \$0.70
	worth of fuel per hour. At this rate, how many hours are required to consume the 200 gallons of fuel oil?										
	Α.	140	В.	220	C.	260	D	). 3	22	E. 3	30
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PHYSIC	PHYSICS										
<b>Directions:</b> 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.	W	hich of the foll	owing	is a scalar quantit	у						
	(a	) Density	(	b) Displaceme	nt	(c)	Torque	e	(d)	Weight	t
2.	W	hich of the foll	owing	is the only vector	quar	ntity					
	(a	) Temperat	ure	(b) Energy		(c)	Power	r	(d)	Mome	ntum
3.	. Which of the following lists of physical quantities consists only of vectors:										
	(a) Time, temperature, velocity					(b)	Force, volume, momentum				
	(c)	Velocity, ac	celerat	ion, mass		(d)	Force,	acce	leration, v	elocity	
4.	T۲	ie rectangular o	compo	nents of a vector	have	angle betwee	n them				

			faraa	r fhai	nmal		
CA							
					www·ei	ntrytest	·com
	(a) 0 <sup>0</sup>	(b) 60 <sup>0</sup>	(c)	90 <sup>0</sup>	(d)	120 <sup>0</sup>	$\mathbf{h}$
5.	A force of 10N is	acting along y-axis. Its co	mponent along	z-axis is			
	(a) 10N	(b) 20N	(c)	100N	(d)	Zero N	
6.	Two forces are ad the angle betwee	cting together on an obje en the force is	ct. The magnitu	ide of their r	resultant is r	ninimum whe	en
	(a) 0 <sup>0</sup>	(b) 60 <sup>0</sup>	(c)	120 <sup>0</sup>	(d)	180 <sup>0</sup>	
7.	Two forces of 10 resultant is	N and 15N are acting sim	ultaneously on	an object in	the same di	irection. Thei	r
	(a) Zero	(b) 5N	(c)	25N	(d)	150N	
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8.	If the dot produc	t of two non-zero vector	s vanishes, the v	vectors will k	be		
	In the (a) same direction	(b) Opposite to ea other	ch <sub>(c)</sub> Perp othe	endicular to r	each	(d) Zero	
9.	If two non-zero v	vector $ec{\mathbf{A}}$ and $ec{\mathbf{B}}$ are para	llel to each othe	er, then $\vec{A}$ .	$\vec{B}$ is equal to	D	
	(a) Zero	(b) AB	(c)	A + B	(d)	A – B	
10.	The dot product	of two vectors is negative	ve when				
	(a) They are p	arallel vectors	(b) Th	ey are anti-p	parallel vecto	ors	
	(c) They are p	erpendicular vectors	(d) No	ne of the at	oove is corre	ect	
11.	The vector produ	uct of two vectors is zero	, when				
	(a) They are p	arallel to each other	(b	) They a	re perpendio	cular to each	other
	(c) They are e	qual vectors	(d	) They a	re inclined a	t angle of 60 <sup>0</sup>	)
12.	If ( $\vec{a} \times \vec{b}$ ) points	s along positive z-axis, the	en the vectors $\frac{1}{2}$	$\dot{i}$ and $\ddot{b}$ mu	st lie in		

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	(a) Ax-plane (c) Xy-plane	<ul><li>(b) Yx-plane</li><li>(d) None of the above</li></ul>							
13.	The position vector of a point in xz-plane is given by (a) $\vec{r} = x \hat{i} + y \hat{j}$ (b) $\vec{r} = y \hat{i} + z k$ (c)	$\vec{r} = x \hat{i} + y \hat{j} + z k$ (d) $\vec{r} = x \hat{i} + z k$							
14.	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 (a) Along $\vec{B}$ (b) Along x-axis	l vectors, then the direction of $\vec{A} \times \vec{B}$ is (c) Along y-axis (d) Along z-axis							
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15.	If $\vec{A}$ . $\vec{B} = 0$ and also $\vec{A} \times \vec{B} = 0$ , then (a) $\vec{A}$ and $\vec{B}$ are perpendicular to each other (c) $\vec{A}$ and $\vec{B}$ are anti-parallel to each other	(b) $\vec{A}$ and $\vec{B}$ are parallel to each other (d) Either $\vec{A}$ or $\vec{B}$ is a null vector							
16.	if $\hat{i}, j, k$ are unit vectors along x,y, and z-axes, the $k \times$ (a) $\hat{i}$ (b) $j$	i j = (c) $-k$ (d) $-\hat{i}$							
17.	The speed of an object at the end of 4 successive sec respectively. The acceleration of this object is A) $5 \text{ ft per sec}^2$ B) $5 \text{ mi per hr per sec}$	conds is 20, 25, 30, and 35 mi/hr, C) 5 mi per hr <sup>2</sup> D) 5 mi per sec <sup>2</sup>							
18.	A bomb is dropped from an airplane moving horizont resistance is negligible, the bomb will reach the grou approximately A) $50 \text{ m}$ B) $75 \text{ m}$ C)	tally with a speed of 600 km/h. If the air nd in 5 s when the altitude of the plane is							
19.	If the values of instantaneous and average velocities with	are equal, the body is said to be moving							



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finally acknowledged that his attitude was



condescending

Β.

D.

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- A. colloquial
- C. professorial
- E. Logical
- 2. There are to many \_\_\_\_\_and not enough serious workers.
  - A. sycophants
  - C. novices
  - E. Zealots

B. Kleptomaniacs

Justifiable

D. dilettantes

Aesthetics

Significance

3. There was a hint of carelessness about her appearance, as though the cut of her blouse or the fit of her slacks was a matter of \_\_\_\_\_\_ to her.

Β.

D.

- A. satisfaction
- C. indifference
- E. Controversy

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#### **ANALOGY**

**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. CALLOW : MATURITY ::
  - (a) incipient : fruition
  - (b) spoiled : purity
  - (c) young : old
  - (d) eager : anxiety
- 5. CARELESSNESS : ACCIDENT ::
  - (a) assiduity : success
  - (b) indifference : fruition
  - (c) care : avoidance
  - (d) writer : blot
- 6. HYPOCHONDRIAC : HEALTH ::
  - (a) addict : drugs
  - (b) miser : money
  - (c) glutton : food



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(d) narcotic : sickness

- 7. BRAKE : AUTOMOBILE ::
  - (a) choke : carburetor
  - (b) conscience : man
  - (c) detergent : society
  - (d) stop : horse

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#### **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.	PERT: (A)	Polite	(B)	Deliberate	(C)	Moral	(D)	Perishable
9.	PRAISE (A)	: Reproof	(B)	Censure	(C)	Thymol	(D)	Trustworthy
10.	PERTIN (A)	NENT: Puzzling	(B)	Discontented	(D)	Irrelevant	(D)	Understood

#### **READING COMPREHENSION**

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

#### **Passage:**

Hiuen Tasang, the famous Chinese traveler, visited Pakistan in the seventh century. He traveled extensively in Pakistan. He stayed for some time in Kanouj, at the court of the great emperor Harshavardhana. He has left for us graphic descriptions of the pomp and ceremony of the royal regalia and the lavish celebrations of Hindu festivals. During one particular festivity at the confluence of the Ganga and Yamuna, many prices would come to participate in the giving of gifts to poor and needy have resounded across the length and breadth of the land from the most distant times! How those ancient banks of seared rivers have heard voices of collective prayers and the shouts of joy of periodic pilgrims! If only the mute stones and steps could tell all the thrills they have witnessed, volumes of stirring stories would flow from them. Hiuen Tasang spent a long period at the famed Nalanda, the great center of learning in classical Pakistan, where students by the hundreds flocked from all over Pakistan and abroad. It has flourished in the remote century of the Buddha and Mahavira, and now when the Chinese pilgrims visited the place it seemed to have been still full of life and intellectual vigour. For this is what the pilgrim notes: "The day is not sufficient for asking and answering profound questions. From morning till night they engage in discussions; the old and the young mutually help one another. If such is not an ideal place of learning, then what is"?

#### QUESTIONS

11 Why are the writings of Hiuen Tasng considered very important?

He was the first foreign visitor

B) We get details about the life style of classical Pakistan



D)

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- C) He wrote his experiences in Pakistan language
- E) He recorded stories at the river festivals
- 12 Why did Hiuen Tsang spend considerable time at Nalanda?
  - A) He was to complete a teaching assignment
  - C) It was an important center of pilgrimage
  - E) None of these
- 13 The passage refers to all the following except
  - A) Footsteps of pilgrims
  - C) Giving of gifts to the poor and orphans
  - E) Presence of members of royal families at the pilgrimage spot

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- 14 What has been considered as the most significant aspect of Nalanda?
  - A) It was a renowned center of teaching and learning
  - C) Princes would come there for their studies
  - E) None of these
- 15 Which of the following is not mentioned in the passage?
  - A) Ganja
  - C) Nalanda
  - E) Kanouj

- It used to admit only foreign students
- D) It had witnessed volumes of stirring stories of Buddha
- B) Mahavira

B)

D) Takshashila

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He was impressed by the Pakistan way of life

- B) He was desirous of learning Buddhist practices
- D) At the request of the local kind
- B) Voices of collective prayers
- D) Lavish celebrations



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### **END OF TEST**

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