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### NATIONAL UNIVERSITY OF SCIENCE & TECNOLOGY (NUST)

### **Computer Sciences 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

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

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3. 
$$\frac{8!}{6!} =$$
\_\_\_\_.

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

D) None of these

4. 
$${}^{16}C_{11} + {}^{16}C_{10} = \underline{\hspace{1cm}}$$

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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A) N+1

C) N

B) n-1

D) 2n

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

A) 8

C) 10

B) 9

D) 11

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

A)

C) 1

B)  $\frac{1}{2}$ 

D) None of these

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

A) 
$$r^2 \theta$$

c) 
$$r\theta$$

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

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

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

A) Sin 
$$\theta$$

C) -sin 
$$\theta$$

B) 
$$\cos \theta$$

D) 
$$-\cos \theta$$

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

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

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

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

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

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

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

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C)  $\pi$ 

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

- c)  $\left[-\frac{1}{2}, \frac{1}{2}\right]$
- 13. Sin  $\frac{a}{2} =$ \_\_\_\_\_.
  - A)  $\sqrt{\frac{(s+b)(s+c)}{bc}}$
  - C)  $\sqrt{\frac{bc}{(s-b)(s-c)}}$

14. In = radius of  $\triangle$  ABC is

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

15. The solution of the equation  $3 \tan^2 x = 1 is$ 

- The solution of a...

  A)  $\left\{\frac{\pi}{6} + n\pi\right\} \cup \left\{\frac{5\pi}{6} + n\pi\right\}, n \in \mathbb{Z}$
- C)  $\left\{\frac{\pi}{4} + n\pi\right\} \cup \left\{\frac{5\pi}{4} + n\pi\right\}, n \in \mathbb{Z}$

D)  $2\pi$ 

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

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

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

- abc

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

None of these D)

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

- B) 1
- D) None of these

- 17. F(x) = x is
  - Trigonometric function

**Exponential function** B)

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C) Quadratic function

- 18.  $F(x) = \tan x is$ 
  - A) Even function
  - C) Linear function

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

- A) X
- C) 1
- $\lim_{x \to 0} \frac{\sin ax}{\sin bx} = \underline{\qquad}.$ 
  - A)
  - C)  $\frac{a}{b}$

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

- A) (
- C) 1

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

- $A) \quad \frac{1}{x\sqrt{x^2-1}}$
- C) Sin<sup>2</sup> x
- 23.  $\frac{d}{dx}(\cosh 2x) = \underline{\hspace{1cm}}.$ 
  - A) 2 cos h 2x
  - C) 2 sin h 2x
- 24. If  $f(x) = \tan^{-1} x$  then  $f(\tan x) = _____.$ 
  - $A) \quad \frac{1}{1+x^2}$

D) None of these

- B) Odd function
- D) None of these
- B) 0
- D) -1
- B)  $\frac{b}{a}$
- None of these
- B) -1
- D) 2
- Sec<sup>2</sup>x
- D) Cos<sup>2</sup>x
- B) -2sin h 2x
- D) 2 cot h 2x
- B) Sec<sup>2</sup> x

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C) Sin<sup>2</sup> x

D) Cos<sup>2</sup> x

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

- A) X = 1
- C) X = 6

- B) X = 3
- D) X = 0

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

- A)  $\frac{1}{2}(x^2-x+1)^2+c$
- C)  $\frac{x^3}{3} \frac{x^2}{2} + x + c$

- B) In  $(x^2 x + 1) + 6$
- In (2x-1) + c

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

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

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

D) Ex - 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  $h^{-1}x + c$

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

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

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

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

- A) (-3, 1)
- C) (5, 2)

- B) (-6, 2)
- D) (-5, 2)

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31 The latus rectum of the parabola  $x^{2+} = -4ay$  is

C) 
$$Y = a$$

32 The vertices of the ellipse  $4x^2 + 9y^2 = 36$  are

A) 
$$(\pm 3, 0)$$

C) 
$$(0, \pm 2)$$

B) 
$$Y = -a$$

D) 
$$X = -a$$

B) 
$$\left(\pm\sqrt{5,0}\right)$$

D) None of these

33 The magnitude of the vector

$$\ddot{r} = a_1 \hat{i} + a_2 \hat{j} + a_3 \hat{k}$$
 is

A) 
$$A_1 + a_2 + a_3$$

c) 
$$a_1^2 + a_2^2 + a_3^2$$

B) 
$$\sqrt{a_1 + a_2 + a_3}$$

D) 
$$\sqrt{a_1^2 + a_2^2 + a_2^2}$$

34 If dot product of two vectors is zero then the vector are

- A) Collinear
- C) Parallel

- B) Perpendicular
- D) None of these

35 If 3 
$$\hat{i}$$
 + 9  $\hat{j}$  + 3  $\hat{k}$  and -  $\hat{i}$  + 4  $\hat{j}$  -  $x$   $\hat{k}$  are perpendicular then

- A) X = 2
- C) X = 14

- B) X 11
- D) X = -33

36 
$$\forall$$
,  $a$ ,  $b$ ,  $c \in R$ ,  $a = b \land b \Rightarrow a = cis$ 

- A) Reflexive property
- C) Transitive property

- B) Symmetric property
- D) Additive property

- 37 The value of i<sup>-3</sup> =
  - A)
  - C) i

- B) -1
- D) -i

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38 What is the number of elements of the power set of {

A) 0

B) 1

C) 2

D) 3

39 A binary operation \* is called commutative in S if  $\forall$  a, b,  $\in$  S.

A) A \* b= b \* a

B) A \* b= -b \* a

C) AB = BA

D) None of these

40 If  $A = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$  then order of  $A^t$  is

A) 3x 1

B) 1x3

C) 3x3

D) 1x1

### **PHYSICS**

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

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- 1. Which of the following is a scalar quantity
  - (a) Density
- (b) Displacement
- (c) Torque
- (d) Weight

- 2. Which of the following is the only vector quantity
  - (a) Temperature (b)
- (b) Energy

- (c) Power
- (d) Momentum
- 3. Which of the following lists of physical quantities consists only of vectors:
  - (a) Time, temperature, velocity

(b) Force, volume, momentum

(c) Velocity, acceleration, mass

(d) Force, acceleration, velocity

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4.	The rectangular components of a vector have angle between them							
	(a)	00	(b)	60 <sup>0</sup>	(c)	90°	(d)	1200
5.	A for	ce of 10N is a	cting ald	ong y-axis. Its component	along z-	axis is		
	(a)	10N	(b)	20N	(c)	100N	(d)	Zero N
6.		forces are act ngle betweer		ether on an object. The m ce is	agnitude	e of their result	ant is m	ninimum when
	(a)	00	(b)	60°	(c)	1200	(d)	180 <sup>0</sup>
7.		forces of 10N tant is	and 151	N are acting simultaneous	sly on an	object in the s	ame dir	ection. Their
	(a)	Zero	(b)	5N	(c)	25N (	(d)	150N
8.	If the	dot product	of two r	non-zero vectors vanishes	, the ve	ctors will be		
	(a)	In the same direction	(b)	Opposite to each other (c)	Perper other	ndicular to each	1	(d) Zero
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9.	If two	o non-zero ve	ctor $\vec{A}$	and $ec{ m B}$ are parallel to each	ch other,	then $\overrightarrow{A}$ . $\overrightarrow{B}$ is e	equal to	
	(a)	Zero	(b)	АВ	(c)	A + B	(d)	A-B

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

They are parallel vectors

They are perpendicular vectors

The dot product of two vectors is negative when

(a) They are parallel to each other

(b) They are perpendicular to each other

(c) They are equal vectors

10.

(d) They are inclined at angle of  $60^{\circ}$ 

They are anti-parallel vectors

None of the above is correct

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(b)

(d)

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12. 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)

(c) Xy-plane (d) None of the above

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) = x i + zk

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 14.

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

If  $\vec{A} \cdot \vec{B} = 0$  and also  $\vec{A} \times \vec{B} = 0$ , then 15.

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

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16. if  $\hat{i}$ , j, k are unit vectors along x,y, and z-axes, the  $k \times j = \dots$ 

- (a)  $\hat{i}$

- (d)  $-\hat{i}$

The speed of an object at the end of 4 successive seconds is 20, 25, 30, and 35 mi/hr, 17. respectively. The acceleration of this object is

- A) 5 ft per  $\sec^2$
- B) 5 mi per hr per sec
- 5 mi per hr<sup>2</sup> C)
- 5 mi per sec<sup>2</sup> D)

A bomb is dropped from an airplane moving horizontally with a speed of 600 km/h. If the air 18. resistance is negligible, the bomb will reach the ground in 5 s when the altitude of the plane is approximately

- A) 50 m
- B) 75 m
- 125 m C)
- D) 250 m

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19.	If the values of instantaneous and average velocities are equal, the body is said to be moving with				be moving				
	(a)	Uniform acceleration	(	(b) Uniform sp	eed (	c) Varia		(d) l	Jniform velocity
20.	A st	one is dropped	from a	cliff. The time d	uring wh	ich it cov	ers a distand	ce of 490	m is
	(a)	10 sec	(b)	100 sec		(c)	9.8 sec	d)	4.9 sec
21.	When	a person jump	s off the	e ground, the re	action fo	rce of th	e ground is		
	(a)	Greater than	the we	ight of the perso	on	(b)	Smaller th person	an the w	eight of the
	(c)	Equal to the	weight (	of the person		(d)	zero		
22.	When	a bullet is fired	d by a gu	ın, the gun reco	il backw	ard with	a velocity		
	(a)	Less than t	hat of th	ne bullet		(b)	Equal to th	at of the	bullet
	(c)	Greater tha	an that o	of the bullet		(d)	None of th	e above	
				V					
23.	Which	n law is applicat	ole in th	e motion of the	rocket in	n space			
	(a)	Conservation of	of mass		(b)	Cons	ervation of e	nergy	
	(c)	Conservation of	of angula	ar momentum	(d)	Cons	ervation of li	near mo	mentum
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24.	A fog	droplet after te	erminal v	velocity, falls ve	rtically w	vith an ac	celeration		
	(a)		b)	Less than g	•		reater than g	g (d)	Equal to zero
25.		cceleration of a ation to the hor	-	al ball on a smo	oth incli	ned plane	e is maximur	n when t	he angle of
N	(a)	90 <sup>0</sup>	(b)	600		(c)	30 <sup>0</sup>	(d)	00

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26.	When a force of 4 N acts on a mass of 2 kg for a time of 2 s, what is the rate of change of
	momentum?

(a)  $1 \text{ kg m s}^{-2}$ 

(b)  $2 \text{ kg m s}^{-2}$ 

(c)  $4 \text{ kg m s}^{-2}$ 

(d) 8 kg m s<sup>-</sup>

27. In instantaneous velocity is equal to the average velocity if a body moves with a

a) Uniform Velocity

b) Variable Velocity

(c) Uniform Acceleration

(d) Variable Acceleration

28. A person standing in an elevator which goes up with constant upward acceleration exerts a push on the floor of the elevator whose value.

A) is always equal to his weight

is always greater than his weight

is always less
C) than his weight

ls zero

29. Which of the following statements is correct for a particle moving in a horizontal circle with constant angular velocity?

(a) The linear momentum is constant but the kinetic energy varies

(b) The kinetic energy is constant but the linear momentum varies

(c) Both kinetic energy and linear momentum are constant

(d) Neither the linear momentum nor the kinetic energy is constant

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B)

30. A point on the rim of a wheel moves 0.2 m when the wheel turns through an angle of 0.1 rad. What is the radius of the wheel.

(a) 0.5 (b)

2 m

(c)

0.2 m

(d)

20 m

### **COMPUTER**

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

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1. The first high-level language to be introduced was

(a) COBOL

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- (b) FORTRAN
- (c) Pascal
- (d) Assembly
- 2. Specifying the kind of input processing and output required for a program occurs when
- (a) planning the solution
- (b) flowchart the problem
- (c) coding the problem
- (d) defining the problem
- 3. After stating the solution to a problem in pseudo code, the next step would be
- (a) testing the program
- (b) coding the program
- (c) documenting the program
- (d) translating the program
- 4. Software that translates assembly language into machine language is
- (a) a binary translator
- (b) a compiler
- (c) an assembler
- (d) a link-loader
- 5. A standardized business language is
- (a) PL/I
- (b) BASIC
- (c) COBOL
- (d) FORTRAN

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- 6. Loading the operating system into a personal computer is called
- (a) booting
- (b) prompting
- (c) interrupting
- (d) paging
- 7. The time between the user's request and the computer's reply
- (a) concurrent time
- (b) response time
- (c) allocation time
- (d) event time
- **8.** An on-screen picture:
- (a) page
- (b) NOC

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- (c) Icon
- (d) Spool
- **9.** The set of choices on the screen is called
- (a) menu
- (b) editor
- (c) reverse video
- (d) template
- 10. The feature that allows viewing any part of a document on the screen is
- (a) searching
- (b) pasting
- (c) scrolling
- (d) editing
- 11. The command to transfer text to another location without deleting it from its original location is
- (a) scroll
- (b) copy
- (c) search
- (d) move
- 12. Spelling checker programs
- (a) tab settings
- (b) pagination
- (c) function keys
- (d) a dictionary

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- 13. Programs waiting to be run are kept on disk in
- (a) page frames
- (b) the background
- (c) shells
- (d) queues
- 14. Prewritten standard file handling programs are called
- (a) pull down menus
- (b) pages
- (c) supervisors
- (d) utilities
- **15.** The signal that the computer is awaiting a command from the user
- (a) prompt
- (b) time slice
- (c) event

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(d) interrupt

#### **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.

1.		er years of talking down to his students as if ally acknowledged that his attitude was	they 	cou	Ildn't understand a word, the teacher
	A.	colloquial		В.	condescending
	C.	professorial		D.	Justifiable
	E.	Logical			0,7
2.	The	ere are to manyand not enough serio	us w	ork	ers.
	A.	sycophants		В.	Kleptomaniacs
	C.	novices		D.	dilettantes
	E.	Zealots			
3.	The	ere was a hint of carelessness about her appe	aran	ce, a	as though the cut of her blouse or
	the	fit of her slacks was a matter of to he	er.		
	A.	satisfaction	B.	Ae	sthetics
	C.	indifference	D.	Sig	nificance
	E.	Controversy			

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### **ANALOGY**

<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. CALLOW: MATURITY::(a) incipient: fruition(b) spoiled: purity(c) young: old

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(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
(d) narcotic: sickness

7. BRAKE: AUTOMOBILE::

(a) choke: carburetor
(b) conscience: man
(c) detergent: society
(d) stop: horse



<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. PERT:

(A) Polite (B) Deliberate (C) Moral (D) Perishable

9. PRAISE:

(A) Reproof (B) Censure (C) Thymol (D) Trustworthy

10. PERTINENT:

(A) Puzzling (B) Discontented (D) Irrelevant (D) Understood

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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:

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,

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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

E)

11 Why a	are the writings of Hiuen Tasng considered very important:	,	
A)	He was the first foreign visitor	B)	We get details about the life style of classical Pakistan
C)	He wrote his experiences in Pakistan language	D)	He was impressed by the Pakistan way of life
E)	He recorded stories at the river festivals		

- 12 Why did Hiuen Tsang spend considerable time at Nalanda? He was to complete a teaching assignment He was desirous of learning Buddhist practices B)
  - At the request of the local kind C) It was an important center of pilgrimage
- 13 The passage refers to all the following except

None of these

- Footsteps of pilgrims C) Giving of gifts to the poor and orphans
- Presence of members of royal families at the
- E) pilgrimage spot
- Voices of collective prayers
- Lavish celebrations

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- 14 What has been considered as the most significant aspect of Nalanda?
  - It was a renowned center of teaching and learning B)

  - Princes would come there for their studies C)
  - None of these E)
- 15 Which of the following is not mentioned in the passage?
  - Ganja
  - Nalanda
  - Kanouj

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

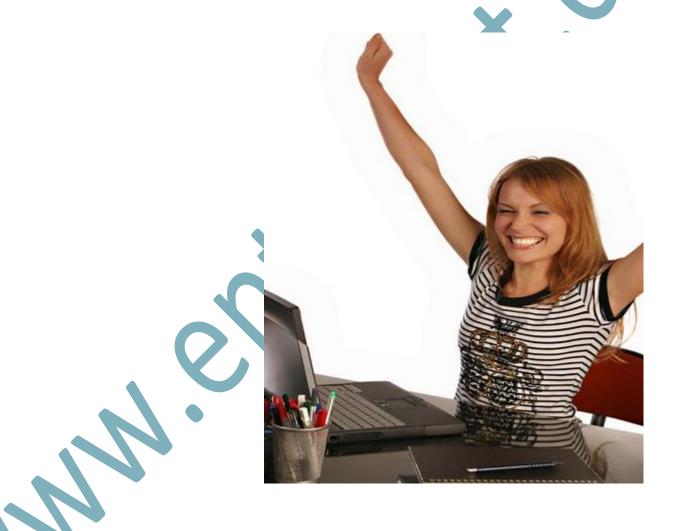
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### **END OF TEST**

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