## Note: Collection by previous test takers interviews

## 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 $a_{n}=2 n-3$ is $\qquad$ .
A) 13
B) -13
C) 7
D) -7
2. The harmonic mean between $a$ and $b$ is
A) $\frac{a+b}{2}$
B) $\pm \sqrt{a b}$
C) $\frac{a-b}{2}$
D) $\frac{2 a b}{a+b}$

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3. $\frac{8!}{6!}=$ $\qquad$ .
A) 8
B) $\frac{1}{56}$
C) 56
D) None of these
4. ${ }^{16} \mathrm{C}_{11}+{ }^{16} \mathrm{C}_{10}=$ $\qquad$ .
A)
B) ${ }^{15} \mathrm{C}_{11}$
C) ${ }^{17} \mathrm{C}_{10}$
D) ${ }^{17} \mathrm{C}_{11}$
5. In the expansion of $(a+x)^{n}$ the sum of exponents of $a$ and $x$ in each term of the expansion is
A) $\mathrm{N}+1$
B) $\mathrm{n}-1$
C) N
D) 2 n
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
7. $\cos ^{2} \frac{\theta}{2}+\sin ^{2} \frac{\theta}{2}=$ $\qquad$ .
A) 2
B) $\frac{1}{2}$
C) 1
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) $r^{2} \theta$
B) $\frac{1}{2} r^{2} \theta$
C) $r \theta$
D) $\frac{1}{2} r^{2} \theta$

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9. $\operatorname{Cos}(2 \pi+\theta)=$ $\qquad$ .
A) $\operatorname{Sin} \theta$
B) $\operatorname{Cos} \theta$
C) $-\sin \theta$
D) $-\cos \theta$
10. $2 \sin a \cos \beta=$
A) $\cos (a+\beta)-\cos (a-\beta)$
B) $\cos (a+\beta)+\cos (a-\beta)$
C) $\sin (a+\beta)-\sin (a-\beta)$
D) $\sin (a+\beta)+\sin (a-\beta)$
11. Period of $\sin 3 x$ is $\qquad$ .
A) $\frac{\pi}{3}$
B) $\frac{2 \pi}{3}$
C) $\pi$
D) $2 \pi$
12. Range of $\tan x$ is $\qquad$ .
A) $R$
B) $[-1,1]$
C) $\left[-\frac{1}{2}, \frac{1}{2}\right]$
D) None of these .
14. $\mathrm{In}=$ radius of $\triangle \mathrm{ABC}$ is
A) $\mathrm{R}=\frac{\Delta}{s}$
C) $\mathrm{R}=\frac{\Delta}{s-b}$
$\sin \frac{a}{2}=$ $\qquad$
A) $\sqrt{\frac{(s+b)(s+c)}{b c}}$
B) $\sqrt{\frac{(s-b)(s-c)}{b c}}$
C) $\sqrt{\frac{b c}{(s-b)(s-c)}}$
D) $\sqrt{\frac{s(s-a)}{b c}}$

15. The solution of the equation $3 \tan ^{2} x=1$ is $\qquad$
A) $\left\{\frac{\pi}{6}+n \pi\right\} \cup\left\{\frac{5 \pi}{6}+n \pi\right\}, n \in Z$
B) $\left\{\frac{\pi}{3}+2 n \pi\right\}\left\{\frac{2 \pi}{3}+2 n \pi\right\}, n \in Z$
C) $\quad\left\{\frac{\pi}{4}+n \pi\right\} \cup\left\{\frac{5 \pi}{4}+n \pi\right\}, n \in Z$
D)

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16. If $f(x)=x^{3}-2 x^{2}+4 x-1$ then $f(0)$ is
A) 0
B) 1
C) -1
D) None of these
17. $F(x)=x$ is
A) Trigonometric function
B) Exponential function
C) Quadratic function
D) None of these
18. $F(x)=\tan x$ is
A) Even function
B) Odd function
C) Linear function
D) None of these
19. If $f$ is a bijective a function then $f\left(f^{-1}(x)\right)$ is
A) $X$
B) 0
C) 1
D) -1
20. $\lim _{x \rightarrow 0} \frac{\sin a x}{\sin b x}=$ $\qquad$ -
A) 1
C) $\frac{a}{b}$
B) $\frac{b}{a}$
D)

None of these
21. If $f(x)=\tan ^{-1} x$ then $f(\tan x)=$ $\qquad$ .
A) 0
B) -1
C) 1
D) 2
22. $\frac{d}{d x}\left[\tan ^{1} x\right]=$ $\qquad$ -.
A) $\frac{1}{x \sqrt{x^{2}-1}}$
B) $\operatorname{Sec}^{2} x$
C) $\operatorname{Sin}^{2} x$
D) $\quad \cos ^{2} x$
23. $\frac{d}{d x}(\cosh 2 x)=$
A) $2 \cosh 2 x$
B) $-2 \sinh 2 x$
C) $2 \sinh 2 x$
D) $2 \operatorname{coth} 2 x$
24. If $f(x)=\tan ^{-1} x$ then $f(\tan x)=$ $\qquad$ .
A) $\frac{1}{1+x^{2}}$
B) $\operatorname{Sec}^{2} x$
C) $\operatorname{Sin}^{2} x$
D) $\cos ^{2} x$
25. The function $f(x)=3 x^{2}$ has extreme value at
A) $x=1$
B) $X=3$
C) $X=6$
D) $X=0$
26. $\int \frac{2 x-1}{x^{2}-x+1} \mathrm{dx}=$ $\qquad$ .
A) $\frac{1}{2}\left(x^{2}-x+1\right)^{2}+c$
B) $\ln \left(x^{2}-x+1\right)+c$
C) $\frac{x^{3}}{3}-\frac{x^{2}}{2}+x+c$
D) $\ln (2 x-1)+c$
27. $\int \frac{e^{x}-e^{-x}}{e^{x}+e^{-x}} \mathrm{dx}=$ $\qquad$ .
A) $\ln \left|e^{x}-e^{-x}\right|+\mathrm{c}$
C) $E^{x}+e^{-x}+c$
28. $\int e^{x}\left[\tanh ^{-1} x+\frac{1}{1-x^{2}}\right] \mathrm{dx}=$ $\qquad$ -.
B) In $e^{x}+e^{-x}$
D) $\mathrm{E}^{\mathrm{x}}-\mathrm{e}^{-\mathrm{x}}+\mathrm{c}$
B) In $\left|e^{x}+e^{-x}\right|+\mathrm{c}$
A) $\mathrm{e}^{\mathrm{x}} \tan \mathrm{h}^{-1} \mathrm{x}+\mathrm{c}$
C) $\frac{e^{x}}{1-x^{2}}+c$
B) $e^{x} \cot h^{-1} x+c$
D) $e^{x} \operatorname{cosec}^{-1} x+c$
29. $\int_{0}^{2} x^{2} \mathrm{dx}=$ $\qquad$ -.
A) $\frac{2}{3}$
B) $\frac{4}{3}$
C) $\frac{8}{3}$
D) None of these
30. The mid point of the line segment joining the points $A(-B, 3)$ an $B(2,-1)$ is
A) $(-3,1)$
B) $(-6,2)$
C) $(5,2)$
D) $(-5,2)$

31 The latus rectum of the parabola $x^{2+}=-4 a y$ is
A) $x=a$
B) $\mathrm{Y}=-\mathrm{a}$
C) $Y=a$
D) $x=-a$

32 The vertices of the ellipse $4 x^{2}+9 y^{2}=36$ are
A) $( \pm 3,0)$
B) $( \pm \sqrt{5,0})$
C) $(0, \pm 2)$
D) None of these

33 The magnitude of the vector $\stackrel{\rightharpoonup}{r}=\mathrm{a}_{1} \hat{\boldsymbol{i}}+a_{2} \hat{\boldsymbol{j}}+a_{3} \hat{k^{\prime}}$ is
A) $\mathrm{A}_{1}+\mathrm{a}_{2}+\mathrm{a}_{3}$
B)
C) $a_{1}^{2}+a_{2}^{2}+a_{3}^{2}$
D) $\sqrt{a_{1}^{2}}+a_{2}^{2}+a_{3}^{2}$

34 If dot product of two vectors is zero then the vector are
A) Collinear
B) Perpendicular
C) Parallel
D) None of these

35
If $3 \hat{i}+9 \hat{j}+3 \hat{k}$ and $-i+4 \hat{j}-x \hat{k}$ are perpendicular then
A) $X=2$
B) X 11
C) $X=14$
D) $X=-33$
$36 \forall, a, b . c \in R, a=b \wedge b \Rightarrow a=c i s$
A) Reflexive property
B) Symmetric property
C) Transitive property
D) Additive property

37 The value of $\mathrm{f}^{-3}=$
A) 1
B) -1
C) i
D) -i

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) $\quad$ * $b=b * a$
B) $\quad \mathrm{A} * \mathrm{~b}=-\mathrm{b}$ *a
C) $A B=B A$
D) None of these

40
If $A=\left[\begin{array}{l}1 \\ 2 \\ 3\end{array}\right]$ then order of $A^{t}$ is
A) $3 \times 1$
B) $1 \times 3$
C) $3 \times 3$
D) $1 \times 1$

## 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) Energy
(c) Power
(d) Momentum

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) $0^{0}$
(b) $60^{\circ}$
(c) $90^{\circ}$
(d) $120^{\circ}$
5. A force of 10 N is acting along y -axis. Its component along z -axis is
(a) 10 N
(b) 20 N
(c) 100 N
(d) Zero N
6. Two forces are acting together on an object. The magnitude of their resultant is minimum when the angle between the force is
(a) $0^{0}$
(b) $60^{\circ}$
(c) $120^{\circ}$
(d) $180^{\circ}$
7. Two forces of 10 N and 15 N are acting simultaneously on an object in the same direction. Their resultant is
(a) Zero
(b) 5 N
(c) 25 N
(d) 150 N
8. If the dot product of two non-zero vectors vanishes, the vectors will be
(a) same direction
(b)
Opposite to each
(c)
Perpendicular to each
other
(d) Zero

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9. If two non-zero vector $\vec{A}$ and $\vec{B}$ are parallel to each other, then $\vec{A} \cdot \vec{B}$ is equal to
(a) Zero
(b) $A B$
(c) $\mathrm{A}+\mathrm{B}$
(d) $\mathrm{A}-\mathrm{B}$
10. 

The dot product of two vectors is negative when
(a) They are parallel vectors
(b) They are anti-parallel vectors
(c) They are perpendicular vectors
(d) None of the above is correct

The vector product of two vectors is zero, when
(a) They are parallel to each other
(c) They are equal vectors
(b) They are perpendicular to each other
(d) They are inclined at angle of $60^{\circ}$
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
(b) Yx-plane
(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) $\overrightarrow{\mathrm{r}}=\mathrm{y} \hat{\mathrm{i}}+\mathrm{zk}$
(c) $\vec{r}=x \hat{i}+y \hat{j}+z k$
(d) $\overrightarrow{\mathrm{r}}=\mathrm{x} \hat{\mathrm{i}}+\mathrm{zk}$
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 vectors, then the direction of $\vec{A} \times \vec{B}$ is
(a) Along $\overrightarrow{\mathrm{B}}$
(b) Along $x$-axis
(c) Along $y$-axis
(d) Along z-axis
15. If $\vec{A} \cdot \vec{B}=0$ and also $\vec{A} \times \vec{B}=0$, then
(a) $\vec{A}$ and $\vec{B}$ are perpendicular to each other
(b) $\overrightarrow{\mathrm{A}}$ and $\overrightarrow{\mathrm{B}}$ are parallel to each other
(c) $\overrightarrow{\mathrm{A}}$ and $\overrightarrow{\mathrm{B}}$ are anti-parallel to each other
(d) Either $\overrightarrow{\mathrm{A}}$ or $\overrightarrow{\mathrm{B}}$ is a null vector

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16. if $\hat{i}, j, k$ are unit vectors along $\mathrm{x}, \mathrm{y}$, and z -axes, the $k \times j=$ $\qquad$
(a) $\hat{i}$
(b)
(c) $-k$
(d) $-\hat{i}$
17. The speed of an object at the end of 4 successive seconds is $20,25,30$, and $35 \mathrm{mi} / \mathrm{hr}$, respectively. The acceleration of this object is
A) 5 ft per $\mathrm{sec}^{2}$
B) 5 mi per hr per sec
C) $5 \mathrm{mi} \mathrm{per} \mathrm{hr}{ }^{2}$
D) 5 mi per $\mathrm{sec}^{2}$

A bomb is dropped from an airplane moving horizontally with a speed of $600 \mathrm{~km} / \mathrm{h}$. If the air 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
C) 125 m
D) 250 m
19. If the values of instantaneous and average velocities are equal, the body is said to be moving with
(a)
Uniform acceleration
(b) Uniform speed
(c) Variable
(d) Uniform velocity
20. A stone is dropped from a cliff. The time during which it covers a distance of 490 m is
(a) 10 sec
(b) 100 sec
(c) 9.8 sec
d) 4.9 sec
21. When a person jumps off the ground, the reaction force of the ground is
(a) Greater than the weight of the person
(b)
Smaller than the weight of the person
(c) Equal to the weight of the person
(d) zero
22. When a bullet is fired by a gun, the gun recoil backward with a velocity
(a) Less than that of the bullet
(b) Equal to that of the bullet
(c) Greater than that of the bullet
(d) None of the above
23. Which law is applicable in the motion of the rocket in space
(a) Conservation of mass
(b) Conservation of energy
(c) Conservation of angular momentum
(d) Conservation of linear momentum

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24. A fog droplet after terminal velocity, falls vertically with an acceleration
(a) Equal to g
(b) Less than g
(c) Greater than g
(d) Equal to zero
25. The acceleration of a spherical ball on a smooth inclined plane is maximum when the angle of inclination to the horizontal is
(a)
$90^{\circ}$
(b) $60^{\circ}$
(c) $30^{0}$
(d) $\quad 0^{0}$
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) $1 \mathrm{~kg} \mathrm{~m} \mathrm{~s}^{-2}$
(b) $2 \mathrm{~kg} \mathrm{~m} \mathrm{~s}^{-2}$
(c) $4 \mathrm{~kg} \mathrm{~m} \mathrm{~s}^{-2}$
(d) $8 \mathrm{~kg} \mathrm{~m} \mathrm{~s}^{-2}$
27. In instantaneous velocity is equal to the average velocity if a body moves with a
a) Uniform Velocity
b) Variable
(c) Uniform
(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
B)
is always greater than his weight
C)
is always less
than his weight D) Is 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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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)
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
(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
(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 $t$ o 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
(d) interrupt

## ENGLISH

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

## SENTENCE COMPLETION

## Directions for O1-3

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. After years of talking down to his students as if they couldn't understand a word, the teacher finally acknowledged that his attitude was $\qquad$ .
A. colloquial
B. condescending
C. professorial
D. Justifiable
E. Logical
2. There are to many $\qquad$ and not enough serious workers.
A. sycophants
B. Kleptomaniacs
C. novices dilettantes
E. Zealots
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 $\qquad$ to her.
A. satisfaction
B. Aesthetics
C. indifference
D. Significance
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
(d) narcotic: sickness
7. BRAKE : AUTOMOBILE ::
(a) choke : carburetor
(b) conscience : man
(c) detergent : society
(d) stop : horse

## 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 opposite 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,
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?
A)
He was the first foreign visitor
C) He wrote his experiences in Pakistan language
B)

We get details about the life style of classical Pakistan
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?
A) He was to complete a teaching assignment
B) He was desirous of learning Buddhist practices
C) It was an important center of pilgrimage
D) At the request of the local kind
E) None of these

13 The passage refers to all the following except
A) Footsteps of pilgrims
B) Voices of collective prayers
C) Giving of gifts to the poor and orphans
D) Lavish celebrations
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
B) It used to admit only foreign students
D) It had witnessed volumes of stirring stories of
D) Buddha
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
B) Mahavira
C) Nalanda
D) Takshashila

## END OF TEST

For Answer Key: www.entrytest.com/testprep/answers.aspx


