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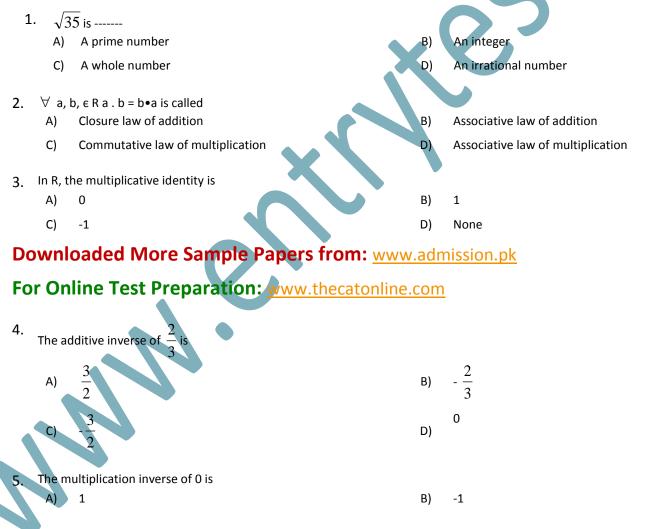
Computer Sciences Sample Admission Test 02

MATHEMATICS

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

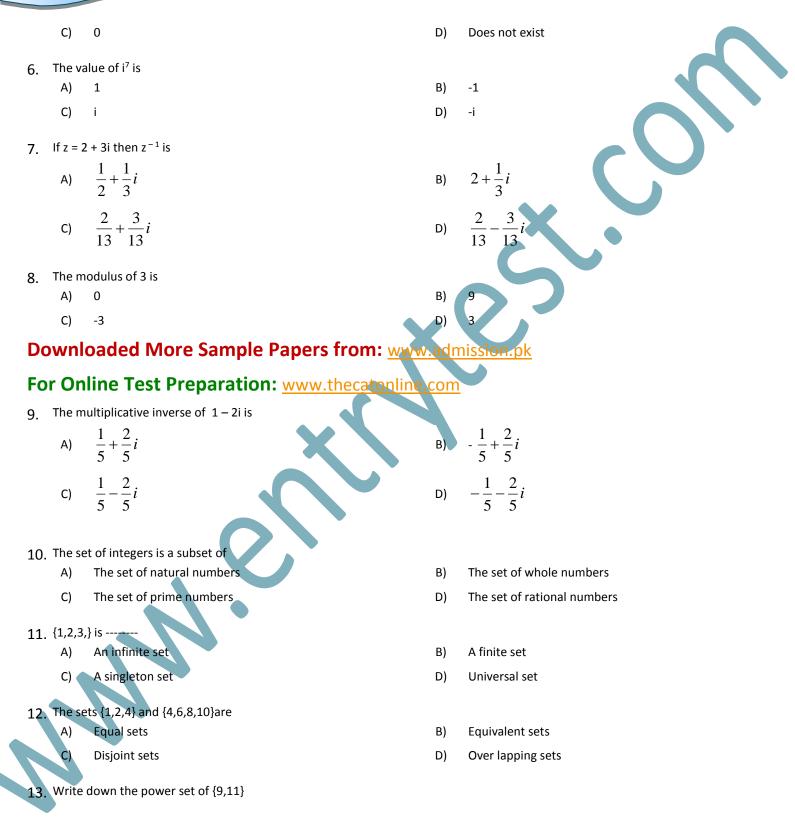
ALL ANSWER MUST BE GIVEN ON THE ANSWER SHEET.

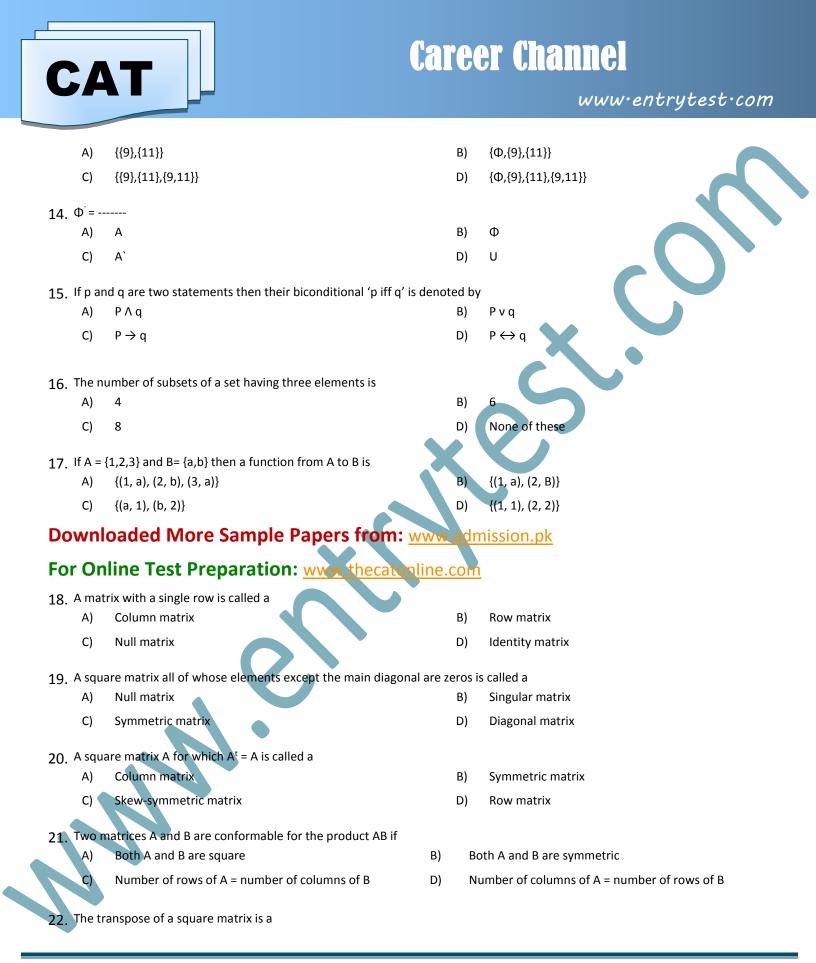
YOUR ANSWERS MUST BE INDICATED BY LETTERS (A, B, C, D) AND NOT BY THE WORDS THEMSELVES.

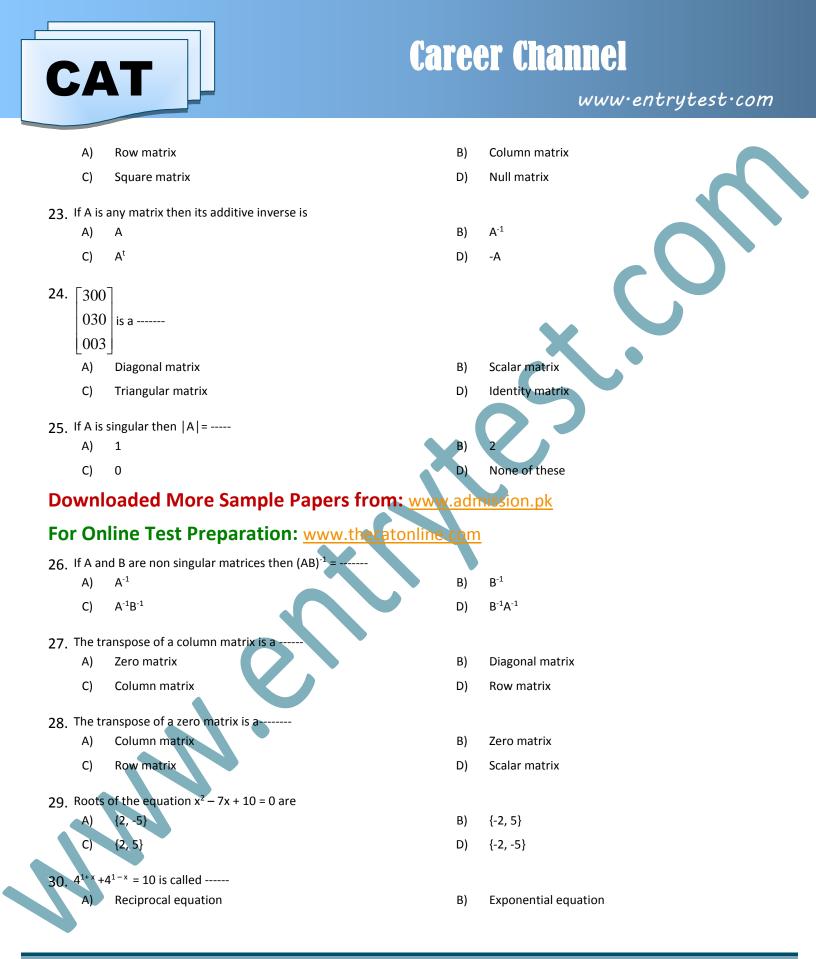




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Radical equation

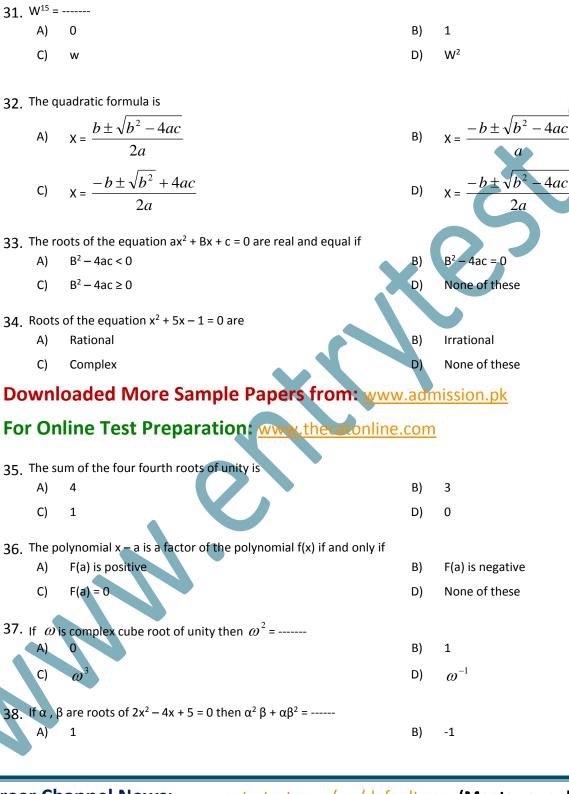
C)

Career Channel

None of these

D)

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C) 5

39. $X^3 + 2x^2 - 3x + 5$ is -----

- A) A Quadratic equation
- C) Proper rational fractions

2

D)

B)

B)

- B) A polynomial
- D) Improper rational fraction

World of extremely large bodies

World of extremely large bodies

40. A fraction in which the degree of the numerator is less than the degree of the denominator is called

- A) Polynomial
- C) Proper fraction

- B) Equation
- D) Improper fraction

PHYSICS

4.

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 first frontier in fundamental sciences is
 - A) World of extremely small bodies
 - C) World of middle-sized things D) All of them

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- 2. The third frontier in fundamental sciences is
 - A) World of extremely small bodies
 - C) World of middle-sized things D) All of them
- 3. The branch of physics which deals with the atomic nuclei is called
 - A) Nuclear physics B) Atomic physics
 - C) Particle physics D) Modern physics
 - The branch of physics in which we study the structure and properties of solids is called A) Nuclear physics B) Modern physics
 - C) Particle physics

- b) would he physics
- D) Solid state physics
- The quantities which cannot be defined in terms of other physical quantities are calledA)Scalar quantitiesB)Vector quantities



D) **Derived** quantities C) **Base quantities** 6. Graphically a vector is represented by an arrow head with a directed line according to a chosen scale which represents A) The direction B) Orientation C) Magnitude D) All of them 7. In Cartesian co-ordinate system, usually the x-axis is taken as the (1) vertical axis (11) horizontal axis B only A) A only B) A & B only All of them C) D) Sum of the magnitudes of y-components of two vectors which are to be added is equal to the 8. y-component of the resultant x- component of the resultant A) B) C) Both of them None of them D) Downloaded More Sample Papers from: www.admission.pk For Online Test Preparation: www.thecatonline.com 9. The cross product between two vectors will be maximum if the two vectors are A) Perpendicular to each other B) Parallel to each other C) Both of them D) None of them The perpendicular distance from the line of action of force to the pivot point is called 10. Couple arm Angular distance A) B) C) Moment arm D) None of them A body is said to be in a state of complete equilibrium if 11. Its translational acceleration is zero A) B) Its rotational acceleration is zero Its rotational as well as translational Its angular momentum is zero D) C) acceleration is zero 12. A change in position of a body from its initial position to its final position is known is known as **Relative** motion A) B) Displacement distance D) Acceleration Velocity is a Scalar quantity A) B) Vector quantity



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None of them C) D) Constant quantity 14. The velocity of a body at any instant of its motion is known as A) Average velocity B) Instantaneous velocity C) Uniform velocity D) None of them 15. The velocity-time graph of a car is a straight line which rises the same height for equal intervals, of time, if it moves with A) Zero velocity B) Constant velocity Constant acceleration C) Zero acceleration D) 16. A frame of reference stationed on Earth is approximately an example of A) Non- inertial frame B) Inertial frame C) None of them Accelerating frame D) 17. The time of flight of a projectile motion equal to Half of the time to reach maximum height Twice the time to reach maximum height B) A) One fourth of time to reach maximum height C) D) Time to reach maximum height Downloaded More Sample Papers from: www.admission.pk For Online Test Preparation: www.thecatonline.com 18. The work done, one a pail of water when a person holding the pail by the force F is moving forward, will be A) Positive B) Negative None of them C) D) Zero 19. If the angle θ between the force and displacement is greater than 90, then the work done will be Positive A) B) Negative C) D) zero Maximum 20. If work is done at the rate of 1000 joules per second, then the power of machine is A) One watt B) One kilowatt Half - watt D) One megawatt C) According to the work-energy principle, work done on a body is always



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A)	Less than the change in its K. E	B)	Greater than the change in its K. E						
C)	Equals to the change in its K. E	D)	None of them						
22. We c A)	an obtain bio-gas by rotting of bio-mass in a closed t Tanker	ank c B)	alled Boiler						
•									
C)	Container	D)	Digester						
23. A lay	3. A layer of a rock holding water that allows water to percolate through it with pressure is								
A)	Aquifer	B)	Deaquifer						
C)	Both of these	D)	None of these						
24. The o	direction associated with the angular displacement is								
A)	Along the radius	В)	Perpendicular to radius						
C)	Along the axis of rotation	D)	All of them						
25 Whic	h of the following quantity has direction along the a	vic of	rotation						
23. White A)	Angular displacement	B)	Angular velocity						
, C)	Angular acceleration	, D)	All of them						
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For On	line Test Preparation: www.thecatonline	.com							
26. The t	hree angular equations hold true in the case when								
A)	There is no fixed axis of rotation	B)	There is a axis of rotation						
C)	There is no axis of rotation	D)	All of them						
27 Tha f	orce which is needed to move the body in circular pa	ath ic	known as						
27. me i A)	Centrifugal force	B)	Centripetal force						
, C)	Gravitational force	, D)	None of them						
-,		-,							
	moment of inertia depends upon								
A)	Mass of the object	B)	Square of the radius						
C)	Both of them	D)	None of them						
29 M/ba	29. Who says that gravity follow an inverse square law (except in strong gravitational fields)?								
29. W10 A)	Einstein	B)	Newton						
		,							



Maxwell

Scientific triumph

None of them

D)

B)

D)

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- C) Plank
- 30. Einstein's theory was hailed as
 - A) Natural triumph
 - C) Both of them

COMPUTER

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

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- 1. A bar code represents the product's
- (a) CGA
- (b) LCD
- (c) OMR
- (d) UPC
- 2. A printer that forms characters from series of dots is called
- (a) dot-matrix
- (b) scanner
- (c) MICR
- (d) Plotter
- **3.** Another word for printer
- (a) monochrome
- (b) microfiche
- (c) pixel
- (d) cursor
- 4. The density of data stored on magnetic tape is expressed as
- (a) unit per inch
- (b) tracks per inch
- (c) bytes per inch
- (d) packs per inch
- 5. Another name for secondary storage :
- (a) cylinder
- (b) auxiliary

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BY THE



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- (c) density
- (d) memory
- 6. A magnetized spot represents
- (a) CPI
- (b) MB
- (c) 0 bit
- (d) 1 bit
- 7. A field contains one or more
- (a) characters
- (b) records
- (c) databases files
- 8. The real that is changed on a magnetic tape unit is the
- (a) take up reel
- (b) supply reel
- (c) RAID
- (d) Record

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- 9. A hard disk can be backed up efficiently using
- (a) zoning
- (b) a transaction
- (c) a tape backup system
- (d) WORM
- 10. A limitation of magnetic tape as a method of storing data is that it is
- (a) not reusable
- (b) relatively expensive
- (c) organized sequentially
- (d) not portable
- 11. DASD refers to
- (a) disk storage
- (b) field
- (c) tape storage
- (d) sorting
- 12. optical disk technology uses
- (a) helical scanning
- (b) laser beam
- (c) DAT
- (d) RAID
- **13.** The mechanism for reading or writing data in a disk is called



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- (a) track
- (b) key
- (c) WORM
- (d) Access arm
- 14. The time require for the access arm to get into position over a particular track is
- (a) rotational delay
- (b) data transfer
- (c) seek time
- (d) head switching
- 15. A disk pack within a sealed data module is a
- (a) backup unit
- (b) Winchester
- (c) Diskette
- (d) CE-ROM

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

SENTENCE COMPLETION

<u>Directions for Q 1 – 3</u>: 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.

- We need both ornament and implement in our society; we need the artist and the
 - A. beautician
 - C. politician
 - E. Model

- B. Writer
- D. Artisan
- 2. When such remarks are circulated, we can only blame and despise those who produce them.
 - A. adulatory

B. Chance

. reprehensible

- D. redundant
- The stereotypical image of masculinity assumes that weeping is______" unmanly" behaviour, and not simply a human reaction which may be_____ by either sex.
- A. Inexplicably. repented B. Excessively...discerned



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C. Essentially...defined

D. Inherently...adopted

<u>ANALOGY</u>

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. FRAGILE : BREAK ::
 - (a) vital : destroy
 - (b) hostile : invite
 - (c) vivid : grow
 - (d) flexible : bend
 - (e) fertile : smell
- 5. SPOKE : WHEEL ::
- (a) square : circle
 - (b) balance : lever
 - (c) door : latch
 - (d) book : shelf
 - (e) rung : ladder
- 6. VESSEL : FLEET ::
 - (a) wolf : pack
 - (b) forest : clearing
 - (c) vehicle : truck
 - (d) carriage : horse
 - (e) squadron : rank

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- 7. PICADOR : BULL ::
 - (a) heckler : speaker
 - (b) executioner : victim
 - (c) shepherd : sheep
 - (d) singer : song
 - (e) matador : cow
- 8. CORPULENCE : STOUT ::
 - (a) baldness : hirsute
 - (b) erudition : learned
 - (c) gauntness : beautiful
 - (d) steadfastness : mercurial



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.

9.	OMNIPOTEN (A) Weak		Strong	(C)	Sour	(D)	Safe
10.	OBLIGATORY		Ontinual		En eile	(D)	
	(A) Friend	dly (B)	Optional	(C)	Facile	(D)	Divorced
11.	OBSOLETE:						
	(A) Desol	ate (B)	Frightful	(C)	Heated	(D)	Renovated
12.	OPTIMUM:						
	(A) Minir	num (B)	Chosen	(C)	Worst	(D)	Knowledgeable

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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:

The Nile is the largest river of the world. Although it farms many falls and cataracts, it is navigable for quite a long distance. Floods in the Nile are caused by heavy summer rains in Ethiopia. The water overflows the banks and spreads over a large area. When it recedes, it leaves behind a thick layer of mud which makes the land rich and fertile.

QUESTIONS

13.	The river Nile is navigable for a long distance because						
	A) It forms cataracts and falls	B)	The cataracts and falls facilitate sailing				
	C) There is little obstruction	D)	The river is very wide				
		ł					
14.	The fertility of the land is caused by						
	A) Summer rain in Ethiopia	В)	Floods in the river				
	C) Water spreading over a large area	D)	Slime left by the river				
15.	"Cataract" means						
	A) Whirlpool	B)	Tidal flurry				



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