

# **ALBERTIAN INSTITUTE OF SCIENCE AND TECHNOLOGY**

**AISAT-Technical Campus, Kalamassery, Kochi-22**

(Approved by AICTE & Affiliated to Mahatma Gandhi University, Kottayam and APJ Abdul Kalam Technological University, Thiruvananthapuram)

Archbishop Angel Mary Nagar, Kalamassery, Kochi - 682 022

www.aisat.ac.in, Tel: 0484 2540360, 2540361

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Presents

# **AVANZA**

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## **Master Quiz '16**

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**Model Questions and Answers**

1. Did the apple iphone first become available in 2005, 2006 or 2007?  
Ans: 2007
2. In terms of computing, what does cpu stand for?  
Ans: central processing unit
3. The hubble space telescope is named after which american astronomer?  
Ans: edwin hubble
4. Is the wavelength of infrared light too long or short to be seen by humans?  
Ans: long
5. Firefox, opera, chrome, safari and explorer are types of what?  
Ans: web browsers
6. The technologically advanced humanoid robot asimo is made by which car company  
Ans: honda
7. True or false? Atomic bombs work by atomic fission.  
Ans: true
8. Did the original sony playstation use cds or cartridges to play games?  
Ans: cds
9. Ibm is a well known computer and information technology company, what does ibm stand for?  
Ans: international business machines
10. Along with whom did bill gates found microsoft?  
Ans: paul allen
11. What science fiction writer wrote the three laws of robotics?  
Ans: isaac asimov
12. What does the abbreviation www stand for?  
Ans: World Wide Web
13. Nano, shuffle, classic and touch are variations of what?  
Ans: the apple ipod
14. What planet is famous for its big red spot on it?  
Ans: jupiter
15. What planet is famous for the beautiful rings that surround it?  
Ans: saturn
16. Who was the first person to walk on the moon?  
Ans: neil armstrong
17. What planet is known as the red planet?  
Ans: mars
18. What is the name of a place that uses telescopes and other scientific equipment to research space and astronomy?  
Ans: an observatory
19. What is the name of nasa's most famous space telescope?  
Ans: hubble space telescope
20. What is the name of the first satellite sent into space?  
Ans: sputnik

21. Ganymede is a moon of which planet?  
Ans: jupiter
22. What is the name of saturn's largest moon?  
Ans: titan
23. Olympus mons is a large volcanic mountain on which planet?  
Ans: mars
24. When light bends as it enters a different medium the process is known as what?  
Ans: refraction
25. A magnifying glass is what type of lens?  
Ans: convex
26. Electric resistance is typically measured in what units?  
Ans: ohms
27. Metals expand when heated and do what when cooled?  
Ans: contract
28. What is the first name of the famous scientist who gave us newton's three laws of motion?  
Ans: isaac
29. What state of the art computer technology is used to train pilots when wanting to copy the experience of flying an aircraft?  
Ans: a flight simulator
30. The most recognized model of how the universe begun is known as the?  
Ans: big bang
31. Who is the hubble space telescope named after?  
Ans: edwin hubble
32. The wire inside an electric bulb is known as the what?  
Ans: filament
33. Theoretical physicist james maxwell was born in what country?  
Ans: scotland
34. Infrared light has a wavelength that is too long or short to be visible for humans?  
Ans: long
35. What kind of eclipse do we have when the moon is between the sun and the earth?  
Ans: a solar eclipse
36. Conductors have a high or low resistance?  
Ans: low
37. What scientist is well known for his theory of relativity?  
Ans: albert einstein
38. What kind of bridge is the golden gate bridge in san francisco?  
Ans: suspension bridge
39. The panama canal joins which two oceans?  
Ans: atlantic and pacific
40. Is a mangonel a type of catapult or bridge?  
Ans: catapult

41. The hoover dam is on the border of which two u.s. states?  
Ans: arizona and nevada
42. Did the eiffel tower open in?  
Ans: 1889
43. The great sphinx of giza has the head of a human and the body of a what?  
Ans: lion
44. In terms of engineering software, what does cad stand for?  
Ans: computer aided design
45. Does the chronic injury known as plantar fasciitis affect hands or feet?  
Ans: feet
46. Does an injury to your anterior cruciate ligament affect your arm or leg?  
Ans: leg
47. True or false? Your body only produces lactic acid during intensive physical activity.  
Ans: false (it's produced all the time)
48. Do the fastest male 100m sprinters in the world average above or below 30 kph (18.64mph)?  
Ans: above - around 36 kph (22.37 mph)
49. What food makes up nearly all (around 99%) of a giant panda's diet?  
Ans: bamboo
50. What is the name of the phobia that involves an abnormal fear of spiders?  
Ans: arachnophobia
51. What is the largest type of 'big cat' in the world?  
Ans: the tiger, weighing up to 300 kilograms (660 pounds).
52. What are female elephants called?  
Ans: cows
53. Bees are found on every continent of earth except for one, which is it?  
Ans: antarctica
54. What is the fastest land animal in the world?  
Ans: the cheetah (it can reach speeds of up to 120kph – 75mph).
55. A 'doe' is what kind of animal?  
Ans: a female deer.
56. True or false? Cougar's are herbivores.  
Ans: false - they are carnivores.
57. Groups of lions are known as what?  
Ans: prides
58. Is a dolphin a mammal?  
Ans: yes
59. What is the largest land animal in the world?  
Ans: the elephant - the largest on record weighed around 12,000 kilograms! (26,000 lb).
60. True of false? Snakes have slimy skin.  
Ans: false - snakeskin is smooth and dry.
61. What is the only continent on earth where giraffes live in the wild?

Ans: africa

62. How many pairs of wings does a bee have?

Ans: 2

63. What type of animal is the largest primate in the world?

Ans: the gorilla

64. Is a shark a fish or a mammal?

Ans: a fish

65. What is the most recognizable feature of a hedgehog's appearance?

Ans: their spines of spiky hair.

66. True or false? Owls are far-sighted, meaning that anything within a few inches of their eyes can't be seen properly.

Ans: true

67. What is the name of an adult female horse?

Ans: a mare

68. What are baby goats called?

Ans: kids

69. What is the first element on the periodic table?

Ans: hydrogen

70. What is the centre of an atom called?

Ans: a nucleus

71. True or false? Acids have a ph level below 7.

Ans: true

72. What is the main gas found in the air we breathe?

Ans: nitrogen (around 78%)

73. Famous new zealand scientist ernest rutherford was awarded a nobel prize in which field?

Ans: chemistry

74. What is the chemical symbol for gold?

Ans: Au

75. What orbits the nucleus of an atom?

Ans: electrons

76. At room temperature, what is the only metal that is in liquid form?

Ans: mercury

77. A nuclear reaction where the nucleus of an atom splits into smaller parts is known as nuclear fission or nuclear fusion?

Ans: nuclear fission

78. What is the third most common gas found in the air we breathe?

Ans: argon (around 1%)

79. Is sodium hydroxide (naoh) an acid or base?

Ans: base

80. Atoms of the same chemical element that have different atomic mass are known as?

Ans: isotopes

- 81.** What is the fourth most abundant element in the universe in terms of mass?  
Ans: carbon
- 82.** In terms of electricity, what does dc stand for?  
Ans: direct current
- 83.** The wire inside an electric bulb is known as the what?  
Ans: filament
- 84.** Conductors have a high or low resistance?  
Ans: low
- 85.** True or false? The concept of electric fields was first introduced by albert einstein.  
Ans: false (michael faraday)
- 86.** When water is cooled, does it expand or contract?  
Ans: expand
- 87.** True or false? The highest temperature ever recorded on earth is 42.4 °c (108.3 °f).  
Ans: false - 57.8 °c (136 °f)
- 88.** Heat from the sun gets to the earth by radiation, conduction or convention?  
Ans: radiation
- 89.** What is the freezing temperature of water?  
Ans: 0 degrees celsius (32 degrees fahrenheit)
- 90.** Substances that don't conduct heat are known as what?  
Ans: insulators
- 91.** At what temperature is fahrenheit equal to centigrade?  
Ans: -40 degrees
- 92.** What are the two main metals in the earth's core?  
Ans: iron and nickel
- 93.** Which is hotter, the center of the earth or surface of the sun?  
Ans: the center of the earth
- 94.** What do you call molten rock before it has erupted?  
Ans: magma
- 95.** What do you call it after it has erupted?  
Ans: lava
- 96.** The great barrier reef is found off the coast of which country?  
Ans: australia
- 97.** What do you call a person who studies rocks?  
Ans: a geologist
- 98.** Name the three time periods of the dinosaurs.  
Ans: triassic, jurassic and cretaceous
- 99.** True or false? The grand canyon is around 10000 feet (3000 meters) deep.  
Ans: false - 5000 feet (1500 meters)
- 100.** What is the name of the deepest location in the world's oceans?  
Ans: mariana trench

- 101.** Over a long period of time while under extreme heat and pressure, graphite turns into which precious mineral?  
Ans: diamond
- 102.** Outside of antarctica, what is the largest desert in the world?  
Ans: the sahara desert in africa
- 103.** The gemstone ruby is typically what color?  
Ans: red
- 104.** What is the name of the highest mountain on earth?  
Ans: mount everest
- 105.** Do stalactites rise from the floor or hang from the ceiling of limestone caves?  
Ans: hang from the ceiling
- 106.** 'Cascade', 'horsetail', 'plunge' and 'tiered' are types of what?  
Ans: waterfall
- 107.** Someone who studies earthquakes is known as a what?  
Ans: seismologist
- 108.** What is the name of the layer of earth's atmosphere that absorbs the majority of the potentially damaging ultraviolet light from the sun?  
Ans: the ozone layer
- 109.** The mass of the earth is made up mostly of which two elements?  
Ans: iron (32%) and oxygen (30%)
- 110.** What is the second most common gas found in the air we breathe?  
Ans: oxygen (21%)
- 111.** Fear of Numbers is called?  
Ans: Numerophobia
- 112.** Where did the magic square originate?  
Ans: China
- 113.** Who built the first electronic calculating machine?  
Ans: John V. Atanasoff
- 114.** Who is called the mathematician's mathematician?  
Ans: Arthur Cayley
- 115.** How many thousands are there in one crore ?  
Ans: 10000
- 116.** Who coined the word 'Million' ?  
Ans: Marco Polo
- 117.** "Mathematics, rightly understood possesses not only truth, but supreme beauty". Who said it?  
Ans: Bertrand Russell
- 118.** Who is called the father of Geometry?  
Ans: Euclid
- 119.** Who invented logarithms?  
Ans: John Napier
- 120.** If  $a + b = 0$ , then the largest value of  $a \times b$  is?

Ans: Zero (when  $a=0$  and  $b=0$ ) (in all other cases, either  $a$  or  $b$  will be negative and hence the product will also become negative)

**121.** Who is known as the Prince of Indian Mathematics?

Ans: Srinivasa Ramanujan (1887-1920)

**122.** A clock takes 6 seconds to strike 4 O' clock. Then how much time it will take to strike 8 O' clock?

Ans: 14 seconds

**123.** "Let no one ignorant of geometry enter here". Whose words are these?

Ans: Plato

**124.** Which mathematician spent more than a decade of his last days as a blind man? .

Ans: Leonard Euler (1707-1783)

**125.** The sum of some continuous counting numbers are equal to 1000. What are they?

Ans: There are three set of possible solutions. (1) 28 to 52 (2) 55 to 70 (3) 198 to 202

**126.** Which curve is known as the "Helen of Geometry"?

Ans: Cycloid

**127.** The number 1729 is popularly known as ?

Ans: Ramanujan Number

**128.** Who is the first Indian to become the president of International Astronomical Union?

Ans: M K Vainu Bappu (1927-1982)

**129.** Which Indian mathematician first framed the rules of operation with zero?

Ans: Brahmagupta

**130.** "Number rules the universe". Who said it?

Ans: Pythagoras (570 BC-495 BC)

**131.** "The essence of mathematics resides in its freedom". Who said it?

Ans: Georg Cantor (1845-1918)

**132.** "Five out of four people have trouble with fractions". Who said it?

Ans: Steven Wright

**133.** "The mathematician is like a Frenchman: you tell him something, he translates it into his own language, and at once it becomes something altogether different". Who said it?

Ans: Johann von Goethe (1749-1832)

**134.** "God exists since mathematics is consistent, and the Devil exists since we cannot prove it". Who said it?

Ans: Andre Weil (1906-1998)

**135.** Who used to always remark, "I was  $x$  years old in the year  $x^2$  ", whenever anybody asked either his age or his year of birth?

Ans: Augustus De Morgan (1806-1871) (Since he was 43 years old in the year 1849 such that  $x=43$  and  $x^2=1849$ )

**136.** "Mathematics is all well and good, but Nature keeps dragging us around by the nose". Who said it?

Ans: Albert Einstein (1879-1955)

- 137.** “Beauty is the first test; there is no permanent place in the world for ugly mathematics”. Who said it?  
Ans: G. H. Hardy (1877-1947)
- 138.** “A great mathematician should know above all things how to calculate his happiness”. Who said it?  
Ans: Jean D’Alembert (1717-1783)
- 139.** “As far as the laws of mathematics refer to reality, they are not certain; and as far as they are certain, they do not refer to reality”. Who said it?  
Ans: Albert Einstein (1879-1955)
- 140.** Oberon is the name of the moon of .....
- Ans: uranus
- 141.** Name of the planetoid that collided with earth forming Moon.  
Ans: theia
- 142.** Which year did India’s first indigenously designed and developed High Thrust cryogenic rocket engine generating a nominal thrust of 19 tonnes was test fired.  
Ans: 16 july 2015
- 143.** Who was the project director of India's first Satellite Launch Vehicle slv 3.  
Ans: Dr. A P J Abdul Kalam
- 144.** Which is the Indian missile that can travel at 7 times the speed of sound.  
Ans Brahmos 2