



**The National Science Bee – Middle and Elementary Divisions  
2019-2020 Online Regional Qualifying Exam – Makeup Version**

**Instructions: Print the Correct Answer in the space provided or leave it blank. Write Neatly!!! Correct answers are worth 2 points. Incorrect answers are -1 point. Questions left blank are worth 0 points.**

You have 20 minutes to complete this Exam. If you are also taking any other exam(s), you have 40 minutes in which to complete them, and you may do them simultaneously or one after the other.

- \_\_\_\_\_ 1) Which of the following animals belongs to the class *Mammalia*?  
A) Chameleon      B) Bald Eagle      C) Mongoose      D) Jellyfish
- \_\_\_\_\_ 2) Which of the following is not a subatomic particle?  
A) Molecule      B) Electron      C) Proton      D) Neutron
- \_\_\_\_\_ 3) Which of the following US states is most likely to be hit by a hurricane?  
A) Oregon      B) Colorado      C) Wisconsin      D) Florida
- \_\_\_\_\_ 4) Which of these organs of the human body is part of the excretory system?  
A) Brain      B) Kidney      C) Lungs      D) Skin
- \_\_\_\_\_ 5) Cirrus and Cumulonimbus are two common types of what phenomenon?  
A) Precipitation      B) Fronts      C) Cyclones      D) Clouds
- \_\_\_\_\_ 6) Which of the following is a type of coniferous tree?  
A) Red Oak      B) Coconut Palm      C) White Pine      D) Sugar Maple
- \_\_\_\_\_ 7) Which of the following astronomical bodies was demoted to dwarf planet status?  
A) Pluto      B) Neptune      C) Jupiter      D) Europa
- \_\_\_\_\_ 8) A formula to calculate the hypotenuse of a right triangle is named after which mathematician?  
A) Pythagoras      B) Euclid      C) Archimedes      D) Fermat
- \_\_\_\_\_ 9) Isaac Newton and Gottfried Leibniz both invented which branch of mathematics?  
A) Geometry      B) Calculus      C) Algebra      D) Statistics

- \_\_\_\_\_10) Which of these species is currently extinct?  
A) Siberian Tiger    B) Dodo    C) Pronghorn    D) Bighorn Sheep
- \_\_\_\_\_11) An isotope differs from the normal form of an atom by the number of what?  
A) Ions    B) Electrons    C) Neutrons    D) Orbitals
- \_\_\_\_\_12) Which of these countries is home to a hot desert climate?  
A) Saudi Arabia    B) Sweden    C) Cuba    D) New Zealand
- \_\_\_\_\_13) Which of the following is a type of flightless bird?  
A) Snow Leopard    B) Monarch Butterfly    C) Venus Flytrap    D) Emu
- \_\_\_\_\_14) "The set of points in a two-dimensional space equidistant from the same point" is a definition of which shape?  
A) Circle    B) Ellipse    C) Cylinder    D) Sphere
- \_\_\_\_\_15) Which of these is an example of a triatomic molecule?  
A) Glucose    B) Water    C) Carbon Monoxide    D) Methane
- \_\_\_\_\_16) Which of the following are examples of types of early computers?  
A) ENIAC & UNIVAC    B) Bit & Byte    C) HTML & Java    D) Cytoplasm & Ribosome
- \_\_\_\_\_17) Which of the following planets is closer to the Sun than Earth is?  
A) Venus    B) Mars    C) Saturn    D) Uranus
- \_\_\_\_\_18) Which of these is an example of a prime number?  
A) Nine    B) Ten    C) Eleven    D) Twelve
- \_\_\_\_\_19) Osteoporosis is a disease that directly affects which parts of the body?  
A) Bones    B) Muscles    C) Skin    D) Hair
- \_\_\_\_\_20) What is not one of the three main classification groups for rocks?  
A) Igneous    B) Sedimentary    C) Composite    D) Metamorphic
- \_\_\_\_\_21) Which operation in mathematics results in a product?  
A) Addition    B) Subtraction    C) Multiplication    D) Division
- \_\_\_\_\_22) What system of numbers consisting only of zeros and ones underpins modern computers?  
A) Binary    B) Exponents    C) Algebraic    D) Imaginary numbers
- \_\_\_\_\_23) Which US state is home to the active volcano known as Kilauea?  
A) Alaska    B) Wyoming    C) Florida    D) Hawaii
- \_\_\_\_\_24) What is the boiling point of water in degrees Celsius?  
A) 0    B) 32    C) 100    D) 212



- \_\_\_\_\_ 38) Which of the following is an example of a constellation?  
A) Ursa Major      B) Pulsar      C) Astroid      D) Pluto
- \_\_\_\_\_ 39) In molecular biology, what does DNA stand for?  
A) Duplicate neuron activation    B) Double Negative Allele  
C) Deciduous Nut Activation      D) Deoxyribonucleic Acid
- \_\_\_\_\_ 40) Approximately how many calories should an adult human consume in a day?  
A) 20      B) 200      C) 2,000      D) 2,000,000
- \_\_\_\_\_ 41)  $\pi \times \text{radius squared}$  is the formula to find the area of which shape?  
A) Triangle      B) Square      C) Circle      D) Pentagon
- \_\_\_\_\_ 42) Which of the following is a type of mammal that lays eggs?  
A) Dolphin      B) Squirrel      C) Kangaroo      D) Platypus
- \_\_\_\_\_ 43) In which US state could you find an alligator living in the wild?  
A) Indiana      B) New Jersey      C) Louisiana      D) Vermont
- \_\_\_\_\_ 44) Which of the following should not be consumed if somebody is lactose intolerant?  
A) Cow's milk      B) Soy beans      C) Lobster      D) Bread
- \_\_\_\_\_ 45) Which of the following was an Italian astronomer who was tried by the inquisition for his support of Copernicus's heliocentric theory?  
A) Johannes Kepler    B) Tycho Brahe      C) Galileo      D) Ptolemy
- \_\_\_\_\_ 46) Which of the following is a part of the body that a human can live without?  
A) Liver      B) Heart      C) Brain      D) Appendix
- \_\_\_\_\_ 47) Gregor Mendel was an early geneticist who famously experimented with what type of plant?  
A) Cactus      B) Pea plant      C) Venus flytrap      D) Palm tree
- \_\_\_\_\_ 48) Which of these animals is an example of a vertebrate?  
A) Kagu      B) Shrimp      C) Tarantula      D) Dragonfly
- \_\_\_\_\_ 49) Which of these elements is one of the halogens?  
A) Lithium      B) Neon      C) Argon      D) Chlorine
- \_\_\_\_\_ 50) Which of the following was an important invention during the industrial revolution?  
A) Steam engine    B) Transistor      C) Archimedes' screw      D) Barometer