

Academic Fest 2019 – Middle School, Sample Questions (Science)

Rules for Science

1. **Eligibility:** Students entering grades 6th through 8th in school year 2019 – 2020.
2. About the Test:
 - a. Time : 40 minutes
 - b. Questions : 50
 - c. All the questions have multiple choice answers. All problems have ONE and ONLY ONE correct [BEST] answer. There is penalty for all incorrect answer.
 - d. All problems answered correctly are worth FIVE points. TWO points will be deducted for all problems answered incorrectly. No points will be added or subtracted for problems not answered.
 - e. Simple scientific calculator is allowed, however graphing calculator is not permitted.
 - f. In case of ties, percent accuracy will be used as a tie breaker.
 - g. Books, scrap papers or any supporting documents will not be allowed in the test room. Contestants will be provided with the scrap papers, pencil and eraser. However, they are allowed to bring their own pencils and eraser.
3. Contestants should arrive on time to get benefit of the full duration of 40 minutes. If any contestant arrives after the beginning of the contest, he/she will get only the remaining time to finish the contest.
4. Each contestant must write his/her contestant ID only on the answer-sheet for the answer-sheet to be evaluated.
5. Each contestant must return the answer sheet to the coordinator at the end of the test duration.
6. No Parents/Guardians/visitors will be allowed in the test room during the test.
7. The judges' decisions will be final.

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Questions:

1. A scientific _____ is a well-supported and widely accepted explanation of nature.
A. theory B. fact C. hypothesis D. law
2. _____ energy is stored in food.
A. Mechanical B. Chemical C. Kinetic D. Light
3. The temperature of the Earth's inner core is roughly _____ °C.
A. -200 B. 0 C. 1000 D. 5000
4. When you bite a taco, your teeth chew it up. This is _____ digestion.
A. chemical B. mechanical C. interrupted D. false
5. All of the following except _____ reproduction results in offspring that are genetically identical to the parent.
A. meiosis B. asexual C. binary fission
D. vegetative propagation
6. The _____ contains genetic material of a eukaryotic cell.
A. cytoplasm B. nucleus C. vacuole D. cell wall
7. Tough, flexible connective tissue that holds bones together are called _____
A. Joints B. Tendons C. Osteoclasts D. Ligaments

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8. Common types of plants found in areas undergoing early stages of secondary succession are _____
A. shrubs B. lichens C. grasses D. trees
9. A/An _____ solid has very orderly arrangements.
A. amorphous B. crystalline C. chaotic D. peculiar
10. _____ forms when raindrops fall through a layer of air below 00 C.
A. Sleet B. Hail C. An updraft D. Snow

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Answer Key

1. A
2. B
3. D
4. B
5. A
6. B
7. D
8. C
9. B
10. A

Bihar Association of North America