

Level 5



A Catalyst For Better Education In India Science Bee Contest 2018 Level 5

Name of the student: Parent Cell Phone:	
Parent Cell Phone.	
Student Grade:	
*******	**********
	Score Card
For the use of Science	Bee coordinator ONLY:
Score [1-35]:	
Score [36-40]:	
Total Score :	



Level 5

1. Which sequence shows the steps of the scientific method in the correct order, use the table below for reference

Scientific Method	
Step	Description
A	Form hypothesis
В	Analyze data
С	Perform experiment
D	Communicate results
Е	Ask question

- A. E, A, C, B, D
- B. A, E, D, C, B
- C. E, C, A, B, D
- D. C, B, A, D, E

2. Animals that have a backbone are called

- A. invertebrates.
- B. vertebrates.
- C. monotremes.
- D. marsupials.

3. Making a forecast of what will happen is called

- A. classifying
- B. inquiry
- C. predicting
- D. hypothesis



4.	Shifting pieces of Earth's crust are called
A.	magmas
B.	volcanoes
C.	tectonic plates
D.	islands
5.	When you test something you are performing $a(\boldsymbol{n})$
A.	observation
B.	knowledge
C.	experiment
D.	evidence
6.	Matter is defined as anything that has and
A.	Food, money
	Food, money volume, mass
B.	
В. С.	volume, mass
В. С.	volume, mass atoms, density
B. C. D.	volume, mass atoms, density
B.C.D.	volume, mass atoms, density money, buoyancy
B.C.D.7.A.	volume, mass atoms, density money, buoyancy Which is the thickest layer of Earth?
B.C.D.7.A.B.	volume, mass atoms, density money, buoyancy Which is the thickest layer of Earth? Inner Core



Level 5

8. What is weather?

- A. An area's long-term weather pattern
- B. The state of the atmosphere at a given place or time
- C. Large volume of air that has similar characteristics of temperature and water vapor content
- D. When large air masses of different density, moisture, and temperature meet

9. States of matter are

D. Pouring

- A. the temperature at which a liquid boils and becomes a gas
- B. the law that states that for a fixed amount of gas at a constant temperature, the volume of the gas increases as its pressure decreases and the volume of the gas decreases as its pressure increases
- C. the term used to describe a physical or chemical change in which energy is given of
- D. the physical forms in which a substance can exist; includes solid, liquid, gas, and plasma

10. The law of reflection states that the angle of incidence is equal to the angle of

A.	refraction	
B.	reflection	
C.	traction	
D.	diffraction	
11.		is how particles of a gas fill a room.
	Diffusion	is how particles of a gas fill a room.
A.		is how particles of a gas fill a room.
А. В.	Diffusion	is how particles of a gas fill a room.

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Science Bee 2018

Level 5

12.	2. What forms when an igneous rock is exposed to heat and pressure?	
A.	magma	
B.	sediment	
C.	C. sedimentary rock	
D.	metamorphic rock	
13.	Light from the Sun has a range of wavelengths that includes which of the following?	
A.	visible spectrum.	
B.	infrared light	
C.	ultraviolet light	
D.	all the above	
14.	Minerals are made up of	
A.	tiny rock particles	
B.	crystals	
C.	copper	
D.	gemstones	
15.	Compare a cup of hot coffee with the water from Atlantic Ocean. Which statement about	
	thermal energy and temperature is correct?	
A.	Water in the Atlantic Ocean has more thermal energy and a higher temperature.	
B.	Water in the Atlantic Ocean has less thermal energy and a lower temperature.	
C.	Water in the Atlantic Ocean has less thermal energy and a higher temperature	

D. Water in the Atlantic Ocean has more thermal energy and a lower temperature.



16.	The number of crests of a wave that moves past a given point in a unit of time is
A.	trough
B.	wave speed
C.	frequency
D.	photon
17.	Place the categories in order from smallest to largest.
A.	biosphere, ecosystem, community, population, organism
B.	organism, population, community, ecosystem, biosphere
C.	biosphere, population, ecosystem, community, organism
D.	organism, community, ecosystem, population, biosphere
18.	As the frequency of a sound wave increases, the wavelength
A.	decreases
B.	stays the same
	increases
D.	fluctuates
19.	When a sample of matter changes from a liquid to a gas, this change is called
A.	condensation.
B.	freezing.
C.	melting.
D.	evaporation.



20.	If the electric fields of two charged objects form a closed pattern of field lines, the objects are charged.
A.	negatively
B.	positively
C.	neutrally
D.	oppositely
21.	A substance that cannot be separated or broken down into simpler substances by chemical means is $a(n)$
A.	metal
B.	element
C.	compound
D.	All of the above
22.	What is a multimeter?
A.	An instrument that measures brightness
B.	An instrument that measures wind
C.	An instrument that measures power
D.	An instrument that measures force
23.	A plastic ruler can get a positive charge by
A.	gaining a single negative charge.
B.	losing a single negative charge.
C.	gaining a single positive charge.
D.	losing a single positive charge.



24.	. Plants use a green pigment called to absorb energy from sunlig	ţht.
A.	chlorophyll	
B.	chloroplasts	
C.	chromosomes	
D.	ribosomes	
25.	. Which statement is true?	
A.	Butterflies are amphibians.	
B.	Newts are amphibians.	
C.	Amphibians have hair.	
D.	Amphibians are warm-blooded animals.	
26.	. Sublimation	
A.	A substance used in a chemical reaction.	
B.	The process by which particles leave a liquid and become a gas.	
C.	The process by which a solid changes directly into a gas.	
D.	A substance made by a chemical reaction.	
27.	. Who developed a system of classification?	
A.	Carolus Linnaeus	
B.	Theodor Schwann	
C.	Robert Hooke	
D.	Matthias Schleiden	



	including hot springs, salt water lakes, and the intestines of animals.
A.	Fungi
B.	Protista
C.	Archaea
D.	Bacteria
29.	What system is responsible for breaking down food into energy?
A.	excretory system
B.	digestive system
C.	skeletal system
D.	circulatory system
30.	Which sequence lists the organisms correctly from the lowest trophic level to highest?
	Which sequence lists the organisms correctly from the lowest trophic level to highest? hawk, weasel, chipmunk, seeds
A.	
A. B.	hawk, weasel, chipmunk, seeds
A. B. C.	hawk, weasel, chipmunk, seeds chipmunk, weasel, seeds, hawk
A. B. C.	hawk, weasel, chipmunk, seeds chipmunk, weasel, seeds, hawk seeds, chipmunk, weasel, hawk
A. B. C. D.	hawk, weasel, chipmunk, seeds chipmunk, weasel, seeds, hawk seeds, chipmunk, weasel, hawk
A. B. C. D.	hawk, weasel, chipmunk, seeds chipmunk, weasel, seeds, hawk seeds, chipmunk, weasel, hawk seeds, chipmunk, hawk, weasel This type of biome has trees that produce needles and cones, such as pine trees. The
A. B. C. D.	hawk, weasel, chipmunk, seeds chipmunk, weasel, seeds, hawk seeds, chipmunk, weasel, hawk seeds, chipmunk, hawk, weasel This type of biome has trees that produce needles and cones, such as pine trees. The temperature can be very cold.
A. B. C. D. 31. A. B.	hawk, weasel, chipmunk, seeds chipmunk, weasel, seeds, hawk seeds, chipmunk, weasel, hawk seeds, chipmunk, hawk, weasel This type of biome has trees that produce needles and cones, such as pine trees. The temperature can be very cold. tundra



32.	. What are all the materials available on Earth for human use called?	
A.	the hydrosphere	
B.	energy	
C.	natural resources	
D.	renewable resources	
33.	Shrimp and spiders are both considered to be because they have jointed legs a segmented body, and an exoskeleton.	
A.	annelids	
B.	arthropods	
C.	echinoderms	
D.	mammals	
34.	At the end of the cell respiration process, are released.	
A.	sugar, energy, and water	
B.	oxygen, energy, and carbon dioxide	
C.	carbon dioxide, water, and energy	
D.	sugar, carbon dioxide, and water	
35.	Superficial resemblance of a species to its natural surrounding to avoid being eaten by predators or being seen by prey is	
A.	mimicry.	
B.	use of tools.	
C.	migration.	
D.	camouflage.	

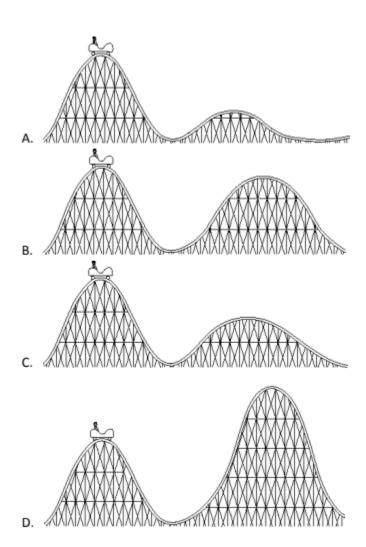


36.	When a wave source is moving toward or away from an object, the wavelength changes, a	
	phenomenon known as the	
37.	is a complex chemical process by which green plants use the	
	energy of sunlight to change water and carbon dioxide into glucose for food.	
38.	Look at the drawing below. It shows a spoon in a bowl of water. The spoon looks broken	
	because the light is being	
39.	A block that is 80°C is placed next to a 20°C block. The warmer block heats the cooler	
	block by the process of	
	80° C 20° C	



Level 5

40. Which roller coaster will not have enough kinetic energy at the bottom of the first hill to carry the car over the second hill?





Level 5

Level 5 Answer Keys:

S.No	Answer
1	А
2	В
3	С
4	С
5	С
6	В
7	С
8	В
9	D
10	В
11	А
12	D
13	D
14	А
15	D
16	С
17	D
18	А
19	D
20	D
21	В
22	С
23	В
24	А
25	В
26	С
27	А
28	С
29	В
30	С
31	В
32	С



33	В
34	С
35	D
36	Doppler effect
37	Photosynthesis
38	Refraction
39	Conduction
40	D