

CHOOSE THE BEST ANSWER

- Which one of the following describes biology best? A/the study of plants B/the study of all living things
C/the study of animals and plants D/the study of matter
- Application of biological science to human affairs is---- A/to improve quality of our lives
production of crops B/use and manage natural resources in sustainable manner D/all C/improve
- A branch of biology that deals with internal structure of organisms is ----
A/botany B/morphology C/anatomy D/physiology
- Which of the following fields of biology deals about fishes? A/entomology B/mycology C/ornithology
D/ichthyology
- Biologists involved in biomedical research ----- A/to develop new drugs and vaccines
B/to find out more about the way in which life begun on earth
C/try to find evidence of life on other planet D/study how microorganisms of all kinds function
- Scientists investigate natural events to try to find out exactly-----
A/why and how the events are happened B/to arrive at answer
C/need conclusive evidence D/a certain factor which causes the event E/ all f the above
- Which one of the following biologists is involved in the study of human genome?
A/ Oncologist B/ Geneticists C/ Ethologist D/ Neurologist
- Steps or procedures are required in one of the following scientific method. A/constructing hypothesis
B/design and carry out experiments C/analyzing results D/evaluating results
- Which one of the following refers the use of scientific research to meet certain human needs?
A/scientific method B/applied science C/experimental science D/all of the above
- A group in an experiment which is not used to compare is-----
A/control B/standard C/experimental D/none of the above
- In which step the experimenter states how the independent variable is expected to influence the dependent variable? A/title B/hypothesis C/prediction D/procedure
- Which rules of writing a report in scientific investigation can be summarized in graph, charts and tables?
A/title B/hypothesis C/results D/conclusion
- From which of the following do scientists start their investigation ----? A/experiment B/prediction
C/observation D/theory
- A variable over which the experimenter manipulate is-----
A/ Independent variable B/ Dependent variable C/ control group D/ all of the above
- One of the following was the supporter of Abiogenesis.
A/F. Redi B/J. Needham C/Lazaro Spalanzani D/ L. Pasture
- From which of the following do scientists usually formulate a hypothesis?
A/ theory B/ prediction C/observation D/ experiment
- A factor that can't be controlled which may influence the result of the experiment is -----
A/dependent variable B/confounding variable C/controlled variable D/independent variable
- Which of the following is the primary step of the scientific method?
A/carry out experiment B/ask question C/construct hypothesis D/observation
- A variable that being changed by an experimenter is known as----
A/dependent B/independent C/controlled D/confounding
- A tentative suggestion of certain observed phenomenon is A/deductive reasoning
B/ formulating hypothesis C/inductive reasoning D/gathering information
- A biologist who disprove the theory of spontaneous generation ----
A/L. pasteur B/V. helmont C/F. redi D/G. mendel
- The variable that changes as an independent variable is----
A/ controlled B/ dependent C/ confounding D/ all of the above
- is a machine that spins at high speed to separate components of different molecules
based on their weight. A/microscope B/quadrant C/centrifuge D/Petri-dish C/ microscope
- Which of the following field equipments used to determine slope? A/G.P.S B/pH kit
- Which of the following is not a biological tool in the dissecting kits?
A/scalpel B/mounting needle C/Petri-dish D/scissors
- A tool that is used to separate blood in to plasma and blood cells are --

- A/Petri-dish B/pipettes C/centrifuge D/aquarium
27. Which biological tool is used in the field? A/Petri-dish B/balance C/flow meter D/forceps
 28. Which one of the following is different from the others? A/Petri-dish B/balance C/centrifuge D/insect net
 29. A microscope enables us to see two very closely placed objects separately due to its-----
A/resolving power B/transparency C/magnification D/field of view
 30. Which of the following is true about microscopes?
A/optical microscopes use beams of electrons to magnify images
B/electron microscopes use beams of light to magnify images.
C/electron microscopes have high magnification and resolution power than light microscope
D/light microscopes have greater resolution power than the electron Microscope
 31. Which apparatus is used to show how the numbers of a particular species change across an area? A/ dissecting microscope B/ line transect C/ theodolite D/ GPS receiver
 32. One of the following is not the relevance of biology in Ethiopia.
A/in the fight against HIV B/food production C/controlling population growth D/degrading biodiversity
 33. Biology has a direct relevance in the following fields except-----
A/agriculture B/medicine C/biotechnology D/information technology
 34. Which one of the following is the activity of anti-retroviral drugs?
A/assist the viral DNA to be inserted B/target the entry phase of HIV
C/cure AIDS D/block the new DNA not to 'Instruct' the cell to make more HIV
 35. HIV can't be transmitted from the mother to the child during-----
A/pregnancy B/delivery C/breast feeding D/ sleeping
 36. What is the difference between HIV and AIDS? A/AIDS is the virus while HIV is the disease B/both refers to the virus C/AIDS is the disease and HIV is the virus D/both refers to the disease
 37. Which of the following elements found in living organisms are correctly grouped?
A/ H, Fe, Mn B/ S, P, O C/ Zn, N, C D/ C, Cu, Co
 38. Which of the following is not a monomer? A/aminonacid B/monosacchride C/protein D/nucleotide
 39. A chemical process that is involved in the synthesis of any polymers is
A/ hydrolysis B/ condensation C/ dehydration D/ addition of water
 40. Two atoms of the same element are joined to produce A/compound B/molecule C/valence D/element
 41. Which of the following is not matching? A/carbohydrate-glycosidic bond B/protein-dipeptide
C/nucleic acid-glycosidic bond D/lipids -ester bond
 42. Which property of water is necessary for biological transport mechanisms?
A/Viscosity B/ solvent C/ reactant D/ surface tension
 43. Which property of water does not damage delicate organs?
A/ non viscose B/ more viscose C/ less viscose D/ ideal viscose
 44. Water is involved as a-----in photosynthesis. A/cell support B/ reactant C/ solvent D/ viscosity
 45. Plant cell -----is a property of water resulted by turgidity of the plant cells.
A/ reactant B/ support C/ viscosity D/ solvent
 46. An animal walks on water surface. This is due to ----A/ high surface tension of water B/ high latent heat of vaporization C/ high specific heat capacity D/ high viscosity of water
 47. Ponds do not dry up too quickly in hot weather. This is due to
A/ high specific heat capacity of water B/ high latent heat of vaporization
C/ high surface tension of water D/ high viscosity of water
 48. Water does not loss heat simply due to-----A/ its transparent property B/ due to its solid property
C/ due to solvent property D/ due to its reactant property
 49. Which of the following properties of water is best explained by a statement 'a large increase in heat energy results in a relatively small rise in temperature. A/ high heat of vaporization B/ high heat of fusion. C/ high heat of capacity D/ high latent heat
 50. What did F. Redi prove through his scientific experiment?
A/Maggots appear spontaneously on food s placed anywhere
B/Maggots do not appear in foods kept in jars that are protected with a cover
C/Maggots do not appear in foods kept in open jar
D/Flies appear spontaneously on rotting meat kept in closed or open jars alike.