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(1) One day you wake with a sore throat and a runny nose. Your doctor takes a swab from your throat, sends it to a lab, and telephones you the next day to say that antibiotic will not help you get better. Which of the following is the most likely reason for the doctor's statement?

- [A] Having waited a day, it is too late to take an antibiotic
- [B] You need an antiseptic, not an antibiotic
- [C] You need to be vaccinated instead of taking an antibiotic
- [D] You are infected by a virus

Answer : [D]

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(2) One of the following is most suitable for study of mutations

- [A] Haploids
- [B] Diploids
- [C] Tetraploids
- [D] Polyploid

Answer : [A]

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(3) Nymph is the name of young one of

- [A] butterfly
- [B] beetle
- [C] housefly
- [D] cockroach

Answer : [D]

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(4) Oxyreductases, transferases, hydrolases, lyases, isomerases and ligases are all classes of

- [A] hormones
- [B] enzymes
- [C] proteins
- [D] vitamins

Answer : [B]

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(5) Nitrogen is fixed in ecosystems in ways stated below. Which one of the statements below is false?

- [A] By cyanobacteria
- [B] By electrical discharges in the atmosphere
- [C] By industrially synthesised fertilizer
- [D] By denitrification

Answer : [D]

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(6) Pollen grains in plants are produced in

- [A] roots

[B] leaves

[C] flower

[D] stem

Answer : [C]

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(7) Mutation is

[A] a factor responsible for plant growth

[B] a change which affects the offspring of F₂ generation only

[C] a change that is inherited

[D] a change which affects the parents

Answer : [C]

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(8) *Mycobacterium leprae* causes leprosy, *Corynebacterium diphtheria* causes diphtheria and *Vibrio comma* causes

[A] tetanus

[B] influenza

[C] cholera

[D] typhoid

Answer : [C]

Explanation: *Vibrio cholerae* (also *Kommabacillus*) is a gram negative comma-shaped bacterium with a polar flagellum that causes cholera in humans

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(9) Materials for rain-proof coats and tents owe their water-proof properties to

[A] surface tension

[B] viscosity

[C] specific gravity

[D] elasticity

Answer : [A]

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(10) It takes much longer to cook food in the hills than in the plains, because

[A] in the hills the atmospheric pressure is lower than that in the plains and therefore water boils at a temperature lower than 100°C causing an increase in cooking time

[B] due to low atmospheric pressure on the hills, the water boils at a temperature higher than 100°C and therefore water takes longer to boil

[C] in the hills the atmospheric density is low and therefore a lot of heat is lost to the atmosphere

[D] in the hills the humidity is high and therefore a lot of heat is absorbed by the atmosphere leaving very little heat for cooking

Answer : [A]

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(11) Stars twinkle because

[A] the intensity of light emitted by them changes with time

[B] the distance of the stars from the earth changes with time

[C] the refractive index of the different layers of the earth's atmosphere changes continuously, consequently the position of the image of a star changes with time

[D] the light from the star is scattered by the dust particles and air molecules in the earth's atmosphere

Answer : [C]

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(12) On a clean glass plate a drop of water spreads to form a thin layer whereas a drop of mercury remains almost spherical because

[A] mercury is a metal

[B] density of mercury is greater than that of water

[C] cohesion of mercury is greater than its adhesion with glass

[D] cohesion of water is greater than its adhesion with glass

Answer : [C]

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(13) Of the following natural phenomena, tell which one known in Sanskrit as 'deer's thirst'?

[A] Rainbow

[B] Earthshine

[C] Halo

[D] Mirage

Answer : [D]

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(14) Minimum number of unequal vectors which can give zero resultant are

[A] two

[B] three

[C] four

[D] more than four

Answer : [B]

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(15) Intensity of sound has

[A] an objective existence

[B] a subjective existence

[C] no existence

[D] both subjective and objective existence

Answer : [A]

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(16) The number of d-electrons in Fe^{2+} ($Z = 26$) is not equal to that of

[A] p-electrons in Ne ($Z = 10$)

[B] s-electrons in Mg ($Z = 12$)

[C] d-electrons in Fe ($Z = 26$)

[D] p-electrons in Cl ($Z = 17$)

Answer : [D]

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(17) The number of moles of solute present in 1 kg of a solvent is called its

- [A] molality
- [B] molarity
- [C] normality
- [D] formality

Answer : [A]

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(18) The most electronegative element among the following is

- [A] sodium
- [B] bromine
- [C] fluorine
- [D] oxygen

Answer : [C]

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(19) The metallurgical process in which a metal is obtained in a fused state is called

- [A] smelting
- [B] roasting
- [C] calcinations
- [D] froth floatation

Answer : [A]

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(20) The metal used to recover copper from a solution of copper sulphate is

- [A] Na
- [B] Ag
- [C] Hg
- [D] Fe

Answer : [D]

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