

BIOLOGY

1

Which of the following organisms is not classified as an animal?

- A. Amoeba
- B. Paramecium
- C. Euglena
- D. Obelia

2

An organism that operates at the cellular level of organization, carries out its physiological activities by

using its

- A. cell membrane
- B. organelles
- C. small size
- D. cytoplasm

3

The organelle which eliminates water from the body of a protozoan is the

- A. plasma membrane
- B. contractile vacuole
- C. nucleus
- D. cell wall

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Which of the following cell types has the least number of mitochondria?

- A. Cardiac cells of the heart
- B. Cells of the cornified layer
- C. Muscle cells of the bladder
- D. Muscle cells of the diaphragm

5

A typical plant cell is mainly distinguished from an animal cell by the possession of

- A. chloroplast and nucleus
- B. cell wall and cytoplasm
- C. chloroplast and cell wall
- D. cell wall and mitochondrion

6

Which of the following characteristics do fungi share in common with animals?

- A. Presence of digestive tract
- B. Movement from one place to another
- C. Storage of carbohydrates as glycogen

D. Movement of centrioles during cell division

7

Which of the following processes involves diffusion?

- A. Opening and closing of stomatal pores
- B. Turgidity of herbaceous plants
- C. Absorption of water through the root hairs
- D. Absorption of digested food into the villi

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The mechanism of opening and closing of stomata in plants is based on

- A. turgidity and diffusion
- B. turgidity and flaccidity
- C. osmosis and diffusion
- D. diffusion and flaccidity

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In cellular respiration energy is made available to organisms by

- A. removal of a phosphate group from ADP
- B. breaking off a phosphate group from ATP
- C. adding a phosphate group to glucose
- D. breaking off a hydrogen ion from NADPH

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Excretion in Paramecium sp. is by diffusion because

- A. its habitat is water and moist places
- B. it has simple, small and few internal organs
- C. it has a large surface area to volume ratio.
- D. it has a large efficient macronucleus.

11

The axial skeleton is composed of the

- A. skull and vertebral column
- B. limbs and girdles
- C. atlas and axis.
- D. radius and ulna

12

The inorganic components of bone consist of

- A. magnesium, sodium and calcium
- B. magnesium, phosphorus and calcium
- C. sodium, phosphorus and calcium,
- D. potassium, magnesium and calcium

13

A pulse is best described as

- A. contraction of arteries to let out blood.
- B. contraction of veins to allow blood into them
- C. dilation of arteries to accommodate blood rushing through.
- D. pumping action of the heart to move blood round the body.

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The following characteristics are associated with the mammalian lungs except

- A. large surface area
- B. expandable lungs
- C. moist surface
- D. highly vascularized

15

The excretory system in mammals consists of the following parts except

- A. two kidneys
- B. two ureters
- C. two bladders
- D. one urethra

16

The organ that receives reduced flow of blood during vigorous exercise is the

- A. brain
- B. heart
- C. lung
- D. limb

17

The ear pinna is strengthened by

- A. blood pressure.
- B. cartilage
- C. bone
- D. turgor pressure

18

The relationship between the retina and the brain is similar to that between the

- A. cochlea and the auditory nerve
- B. cochlea and the brain.
- C. cochlea and the semi-circular canals
- D. eardrum and the brain

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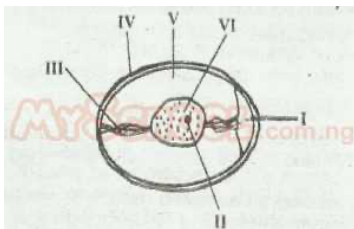
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Which of the following statements about the development of the foetus is not correct?

- A. The circulatory system of the foetus is directly connected to the maternal blood vessels
- B. The foetus depends on the mothers blood for its food and oxygen
- C. The foetus is surrounded by a water sac
- D. Food and oxygen are carried across the placenta to the embryo's blood

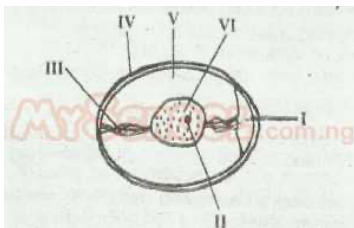
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The parts that supply food and water to the developing embryo are labelled

- A. I and II
- B. III and V.
- C. V and VI
- D. I and III

21



The part labelled III is the

- A. albumen
- B. chalaza
- C. yolk
- D. air space

22

Which of the following statements is true about transpiration? It is the

- A. loss of water in the form of vapour from the surface of the leaf
- B. loss of water in the form of vapour from the surface of the root
- C. absorption of water in the form of vapour from the body of the plant
- D. movement of water through the body of the plant.

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Transportation of water in the xylem tissue involves the following except

- A. root pressure
- B. capillary action
- C. transpiration pull
- D. translocation

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The following are the major reasons why the butterfly lays eggs under the surface of a leaf except to

- A. shade the eggs from the direct rays of the sun.
- B. protect the eggs from predators
- C. protect the eggs from being washed away by rain drops
- D. camouflage the eggs

25

In which of the following organic compounds is the hydrogen-oxygen ratio equal to 2:1?

- A. Proteins
- B. Carbohydrates
- C. Lipids
- D. Vitamins

26

A man suffering from obesity must avoid meals containing

- A. margarine and butter
- B. rice and beans
- C. carrots and oranges
- D. beef and fish

27

In testing for starch in a leaf, the leaf is first boiled in water for about a minute so that the

- A. cell walls are hardened
- B. cells are killed
- C. chlorophyll is dissolved out
- D. iodine will penetrate

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Which of the following food substances is incorrectly linked to its enzyme?

- A. Protein - trypsin
- B. Fat - lipase
- C. Sucrose - pepsin
- D. Starch - amylase

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Which of the following pH values is the best for the action of the enzymes - renin and pepsin in the stomach?

- A. pH2
- B. pH7
- C. pH8
- D. pH9

30

The bacterium in a mutualistic association with legumes converts

- A. nitrates to ammonia
- B. ammonium compounds to nitrites
- C. nitrogen gas to ammonia
- D. nitrites to nitrates

31

An herbivore cannot feed on a piece of meat because it has no

- A. incisors to cut the meat
- B. canines to tear up the meat
- C. premolars to grind the meat
- D. molars to mash the meat

32

In a particular habitat the role of an organism is referred to as its

- A. level
- B. biomass
- C. niche
- D. space

33

The distribution of organisms in a fresh water habitat like a stream or pond is determined by the following

factors except

- A. light penetration
- B. pH of the soil
- C. rainfall
- D. temperature

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The speed of wind is measured using the

- A. wind vane

- B. anemometer
- C. photometer
- D. barometer

35

Which of the following is a biotic component of an ecosystem?

- A. Soil
- B. Rainfall
- C. Light
- D. Fungi

36

A moss plant can withstand drought by means of its

- A. spores
- B. rhizoids
- C. antheridia
- D. achegonia

37

Which of the following factors is the main problem facing xerophytic plants?

- A. Competition for sunlight
- B. Conservation of excess water
- C. inadequate roots for water absorption
- D. Lack of adequate water

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The following are greenhouse gases except

- A. carbon dioxide
- B. chlorofluorocarbon
- C. methane
- D. oxygen

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Rural-urban migration in developing countries can be prevented by

- A. increasing the number of years in school
- B. putting up more factories in urban areas
- C. having boarding schools in rural areas
- D. even distribution of facilities in both regions

40

Muscles are attached to bones by means of

- A. tendons
- B. ligaments

- C. cartilage
- D. nerves

41

In a population, food shortage may lead to

- A. an increased survival rate
- B. high reproduction rate
- C. intra-specific competition
- D. low rate of migration

42

The following effects are associated with deforestation except

- A. gully erosion
- B. extinction of plant species
- C. migration of wildlife
- D. increase in rainfall

43

The main reason for the conservation of wildlife is to

- A. create national parks for recreation
- B. maintain ecological balance in communities
- C. prevent hunters from being 'cruel to animals
- D. save some species from extinction.

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Which of the following is an example of variation?

- A. Blood
- B. Tongue rolling
- C. Reproduction
- D. Growth

45

The parameters of size, height, weight and colour in a population of living things are examples of

- A. environmental variation
- B. non-heritable variations
- C. continuous variations
- D. discontinuous variations

46

Fingerprints are useful in crime detection because

- A. the police have sophisticated fingerprint machines
- B. thieves may leave their prints at the scene of a crime
- C. no two people have the same fingerprint

D. fingerprints are easy to make

47

A person with blood group, O can be given blood from persons who have blood belonging to

- A. group O only
- B. group A only
- C. groups A and O
- D. groups A, B and O

48

A man heterozygous for albino gene marries a woman who is also heterozygous for the gene. Both have normal skin colour. The probability that they will have an albino child is

- A. $\frac{1}{3}$
- B. $\frac{1}{4}$
- C. $\frac{4}{4}$
- D. $\frac{2}{4}$

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Which of the following statements about heredity is not true? In heredity the traits are

- A. carried by genes
- B. contained in the ovum and sperm
- C. always transmitted by one parent
- D. transmitted from parents to offspring

50

An example of a saprophytic relationship is a / an

- A. vulture feeding on decaying meat
- B. mushroom growing on decaying vegetation
- C. boy eating stale bread
- D. earthworm feeding on decaying vegetation.

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