

# Sample [EduNgr.com](http://EduNgr.com) JAMB Past Questions

**JAMB » Biology » 2015**

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1 A tissue is composed of a group of

A similar cells

B tissues

C systems

D related organs

---

2 The population of different organisms that exist together in a habitat is called

A biomes

B biosphere

C community

D ecology

---

3 Which of the following serves as the brain box in man

A skeleton

B skull

C head

D spinal column

---

4 Which organ removes the largest amount of excess water from the body?

A Liver

B Lung

C Kidney

D skin

---

5 The following parts are involved in breathing process, except

- A mouth
  - B nostrils
  - C ribs
  - D diaphragm
- 

## EduNgr.com JAMB Past Questions

6 Which of these is not a sampling method for determining population size?

- A capture and re-capture method
- B complete census
- C Transect method
- D systematic sampling

7 A group of organisms of the same kind inhabiting the same environment is called

A ecosystem

B habitat

C population

D species

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8 The light sensitive cells in the human eye is called the .....

A Choroid

B Sclerotic layer

C retina

**D** cones

---

**9** The earliest form of life in animal kingdom is the

**A** class

**B** amphibian

**C** aves pisces

**D** reptilia

---

**10** Which of the following disease is not sexually transmitted?

**A** Gonorrhoea

**B** Herpes

**C** Influenza

**D** Syphilis

## EduNgr.com JAMB Past Questions

- 13 One of the following diseases is caused by fungi
- A cassava mosaic
  - B coffee leaf rust
  - C leaf blight of cassava rosette
  - D disease of groundnut
- 

- 14 The by-product of photosynthesis is
- A CO<sub>2</sub>
  - B O<sub>2</sub>
  - C C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>
  - D H<sub>2</sub>O

- 15 Gaseous exchange in the lungs takes place in the
- A alveoli
  - B bronchi
  - C bronchioles
  - D trachea
- 

## EduNgr.com JAMB Past Questions

- 16 In eukaryotic cells, cellular respiration takes place in the
- A nucleus
  - B cytoplasm



**C** centrioles

**D** mitochondrion

---

**17** One of the following causes Ebola fever

**A** Bacteria

**B** Fungi

**C** Protozoa

**D** Viruses

---

**18** The theory of survival of the fittest was propounded by .....

**A** Darwin

**B** Hooke

**C** Lamarck

**D** Linnaeus

---

**19** The deficiency of vitamin D leads to

**A** beriberi

**B** pellagra

**C** ricket

**D** scurvy

---

**20** One of these is used for excretion in earthworm

**A** Contractile vacuole

**B** Flame cell

**C** Malpighian tubule

**D** Nephridium

---

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21 The following group of plants is the most advanced except

- A bryophyte
- B pteridophyta
- C spermatophyte
- D thallophytic

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22 Which of the following hormonal glands is located on top of the kidney?

- A Adrenal

**B** gonads

**C** pancreas

**D** thyroid

---

**23** One of these is present in both plant and animal cell?

**A** Cell membrane

**B** Cell wall

**C** Chloroplast

**D** Large cell vacuole

---

**24** When the solute concentration of the cell and its surrounding medium are the same, the solution is said to be

**A** hypertonic

**B** hypotonic

**C** isotonic

**D** acidic

---

**25** The primary consumer in the food chain below is

.....

Green plants → Grasshopper → Lizard → Snake →  
Hawk

**A** Grass hopper

**B** green plants

**C** hawk

**D** lizard

---

26 Angiosperms belong to the class

- A bryophyte
  - B pteridophyta
  - C spermatophyte
  - D thallophytic
- 

27 In the kidney, both useful substances and wastes are removed from the blood by

- A Filtration
  - B selective absorption
  - C dialysis machine
  - D excretion
-

28 Which of the following is not part of the mammalian male reproductive organ?

- A Epididymis
- B Vas deferens
- C testis
- D Vulva

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29 Which of the following reagent is used for testing the presence of protein in food?

- A Benedict solution
- B Fetiling's Solution
- C Millon's reagent
- D Sudan III

30 The breaking down of food in the alimentary

canal is called

A digestion

B egestion

C excretion

D ingestion

---

## EduNgr.com JAMB Past Questions

31 The followings are the functions of the kidneys,

except

A Regulation of water content in the blood

B Maintenance of blood PH and homeostasis

C Excretion of CO<sub>2</sub>



**D** D. Removal of waste products from the blood

---

**32** The following distrupts the balance in an ecosystem except

**A** afforestation

**B** deforestation

**C** migration

**D** pollution

---

**33** The following animals are viviparous expect

**A** Cow

**B** Dog

**C** Goat

**D** Pigeon

34 The following animals is an invertebrate except

- A flat worms
  - B round worms
  - C chordate
  - D protozoan
- 

35 The following are kidney diseases except

- A diuresis
- B hepatitis
- C nephritis
- D oedema

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## EduNgr.com JAMB Past Questions

36 The gland that releases hormones into the blood are part of the

- A digestive system
  - B endocrine system
  - C circulatory system
  - D respiratory system
- 

37 One of the following is called emergency hormone in man.

- A Adrenalin
- B Prolactin
- C Testosterone

**D** Thyroxine

---

**38** Which of these responses is not voluntarily controlled by the brain?

**A** Dancing

**B** Eating

**C** Sneezing

**D** Writing

---

**39** The scientific study of life is

**A** Botany

**B** Biology

**C** Zoology

**D** Ecology

40 The artery supplying the liver with blood is called

- A hepatic
  - B mesenteric
  - C renal
  - D subclavian
- 

## EduNgr.com JAMB Past Questions

41 One of the following exist as colony

- A euglena
- B paramecium
- C spirogyra

**42** The translucency spot in food test shows the presence of

**A** fats

**B** starch

**C** water

**D** protein

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**43** The following are examples of oviparous animals except

**A** crocodile

**B** dove

**C** rat

**D** tilapia

---

**44** The part of cell that is responsible for the production of energy is

**A** cell membrane

**B** cytoplasm

**C** mitochondrion

**D** nucleus

---

**45** Hormones that help regulate blood calcium levels are produced by the

**A** Adrenal

**B** thyroid

**C** pancreas

**D** parathyroid

---

## EduNgr.com JAMB Past Questions

**46** Which of the following statements is not true of a fish?

**A** respire with the use of gills

**B** covered with scales

**C** they are homeothermic

**D** they are poikilothermic

---

**47** Which of the following is NOT a waste product of plants?

**A** Auxins



**B** Gum

**C** Resins

**D** tanins

---

**48** An association between bacteria and root nodules of legume is called

**A** Commercialism

**B** mutualism

**C** parasitism

**D** saprophytism

---

**49** Which of these is not detected by the nerve endings of the skin?

**A** cold

**B** pain

**C** pressure

**D** weakness

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**50** Behaviour conditioning was described by

**A** Felix Dujartin

**B** Gregormendel

**C** Ivan pavlov

**D** Mathias schnelden

---

**EduNgr.com JAMB Past Questions**

51 The process by which organisms keep their internal condition relatively stable is called

- A metabolism
  - B evolution
  - C gametogenesis
  - D homeostasis
- 

52 The following exist as free-living organisms except

- A Amoeba
  - B Chlamydomonas
  - C Euglena
  - D Spirogyra
-

53 The basic functional unit of the kidney is the

- A nephron
  - B bowman's capsule
  - C glomerulus
  - D loop of henle
- 

54 Snails belong to the phylum

- A Annelida
  - B Mollusca
  - C Echinodermata
  - D nematode
-

55 Which of the following is not a pest of crops?

- A Bird
  - B Rodent
  - C Bed bug
  - D Grasshopper
- 

## EduNgr.com JAMB Past Questions

56 Another name for a fertilized egg is a

- A placenta
- B zygote
- C foetus
- D ovum

- 57 Plants that survive in marine habitats are called
- A halophytes
  - B hydrophytes
  - C mesophytes
  - D xerophytes
- 

- 58 The study of plants is called
- A Zoology
  - B Entomology
  - C Parasitology
  - D Botany

59 The following are examples of air borne diseases, except

- A Chicken pox
  - B Cholera
  - C common cold
  - D Whooping cough
- 

60 Which of the following is the end product of the digestion of oil

- A glucose
  - B Glycerol
  - C amino acid
  - D glycogen
-

## EduNgr.com JAMB Past Questions

61 The part that supplies food from the mother to the foetus is

- A Amnion
  - B Chorion
  - C Umbilical Cord
  - D Placenta
- 

62 Which of these is not the part of the eye?

- A Cochlea
- B Conjunctiva
- C Cornea



**D** Iris

---

**63** De-oxygenated blood is transported to the lungs through the

**A** renal vein

**B** hepatic portal vein

**C** pulmonary artery

**D** pulmonary vein

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**64** One of the following is the unit of life

**A** cell

**B** tissues

**C** organ

**D** system

---

**65** The following are examples of a true fruit, except

**A** mango

**B** oil palm

**C** orange

**D** pineapple

---

## EduNgr.com JAMB Past Questions

**66** The vector that transmit trypanosome is the

**A** butterfly

- B** housefly
  - C** mosquito
  - D** tsetse fly
- 

**67** The following are ductless glands except

- A** adrenal
  - B** pancreatic
  - C** parathyroid
  - D** salivary
- 

**68** White blood cells are also known as

- A** erythrocytes
- B** leucocytes

**C** lymphocytes

**D** phagocytes

---

**69** The removal of remnant particles of digestion from the body is called

**A** assimilation

**B** egestion

**C** elimination

**D** excretion

---

**70** Enzyme ptyalin acts on starch in the

**A** oesophagus

**B** large intestine

**C** mouth

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## EduNgr.com JAMB Past Questions

# Answers: JAMB Past Questions: JAMB » Biology » 2015

1. **A**

2. **C**

Option A is wrong. This is because, a biome is a regional or global land area that is characterized by the plants, animals and climate in that area

Option B is wrong. This is because, biosphere is the part of the earth that supports life.

Option C is correct. This is because, community consists of different organisms living together in a

habitat.

Option D is wrong. This is because ecology is the study of organisms and their environment.

**3. B**

**4. C**

Lungs: Remove carbon dioxide

Skin: Sweat glands remove water, salts, and other wastes

Large intestine: Removes solid waste and some water in the form of feces

Kidneys: Remove urea, salts, and excess water from the blood

**5. A**

The act of breathing has two stages – inhalation and exhalation

- Inhalation – the intake of air into the lungs through expansion of chest volume.

- Exhalation – the expulsion of air from the lungs through contraction of chest volume.

Inhalation and exhalation involves muscles:

- Rib muscles = the muscles between the ribs in the chest.

- Diaphragm muscle

**6. D**

**7. D**

**8. D**

Cone cells, or cones, are one of two types of photoreceptor cells in the retina of the eye. They are responsible for color vision and function best in relatively bright light, as opposed to rod cells, which work better in dim light. Cone cells are densely packed in the fovea centralis, a 0.3 mm diameter rod-free area with very thin, densely packed cones which quickly reduce in number towards the periphery of the retina. There are about six to seven million cones in a human eye and are most concentrated towards the macula

**9. C**

**10. C**

---

**11. A**

**12. D**

Option D is correct. This is because, species is the lowest unit in the hierarchy of classifying living organisms. See the illustration below.

From kingdom phylum → class → order → family  
→ genus → species

**13. B**

**14. B**

**15. A**

**16. D**

**17. D**

**18. A**

**19. C**

**20. D**

---

**21. D**



22. **A**

23. **A**

24. **C**

Option C is correct. This is because, any time there is the same solute concentration of both cell and its surrounding medium, the solution is said to be isotonic. So, there will be no losing or gaining of water into the cell or the surrounding medium.

25. **A**

26. **C**

27. **A**

28. **D**

29. **C**

30. **A**

---

31. **C**

Option C is correct. This is because, excretion of CO<sub>2</sub> is done by the lungs through the nostrils.

**32. A**

Option A is correct. This is because, the planting of trees known as afforestation will prevent wind outbreak that can affect humanity and their resources as well as preventing soil erosion.

**33. D**

Option D is the correct answer. This is because, pigeon is an oviparous animal that lays its egg before hatching.

**34. C**

**35. B**

**36. B**

**37. A**

**38. C**

**39. B**

**40. A**

---

41. **D**

42. **A**

43. **C**

44. **C**

45. **D**

46. **C**

47. **A**

48. **B**

Option B is correct. This is because, mutualism is an association existing between two organisms benefiting from each other

49. **D**

50. **C**

---

51. **D**

Option D is correct. This is because Homeostasis is any self-regulating process by which biological systems tend to maintain stability while adjusting to conditions that are optimal for survival.

**52. D**

Option D is the correct answer. This is because, Spirogyra exist as filament that occurs in rows or chains.

**53. A**

Option A is correct. This is because, the part that makes kidney perform its osmoregulation function in man is the nephron i.e. the production or formation of urine is done through nephron in the kidney.

**54. B**

**55. C**

Option C is correct. This is because, bed bug is not an animal pest that can affect crop plants in a farmland. It can only affect animals like homo sapiens etc.

**56. B**

Option B is correct. This is because, when the male sperm and female egg come in contact with each other, it becomes a fertilized egg or cell. When this happens, it results to forms the zygote.

**57. A**

Option A is correct. This is because halophytes are plants that live successfully in a marine(salt water) habitat.

**58. D**

**59. B**

Option B is the correct answer. This is because, cholera is a water borne disease (disease caused by contaminated water).

**60. B**

---

**61. D**

Option D is correct. This is because, placenta establishes an intimate connection between the embryo and the mother. This connects the placenta to

transfer food, water and oxygen from mother to the embryo or foetus

### 62. A

Option A is the correct answer. This is because, cochlea is the structure of the mammalian hearing organ called ear.

### 63. C

Option C is correct. This is because for deoxygenated blood (blood containing carbon (iv) oxide) in the heart to be returned back to the lungs for the removal of the CO<sub>2</sub>, pulmonary artery aids in the process.

### 64. A

Option A is correct. This is because, cell is the basic functional and structural unit of life.

### 65. D

Options A, B and C are not correct. This is because, they are all true fruits (i.e, the fruits that develops solely from a fertilized ovary.

Option D is correct. This is because, pineapple is a false fruit (a fruit developed or formed from the

ovary and other floral parts of the plant or fruit flowers.

**66. D**

Option D is correct. This is because, tsetse fly is the vector that transmits trypanosome that causes trypanosomiasis or sleeping sickness.

**67. D**

Option D is correct. This is because, salivary glands are found in the mouth, which secretes a juice called saliva that contains an enzyme called ptyalin.

**68. B**

Option B is correct. This is because, leucocytes is another name for white blood cells

**69. B**

Option B is correct. This is because, the removal of the remnant particles of digestion called faeces is done through a process called egestion.

**70. C**

Options A and B are not correct.

Option C is correct. This is because, the mouth is the

location where enzyme ptyalin acts on starchy food. Option D is wrong. This is because, stomach is location for the action of renin and pepsin enzymes.

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