



BIOLOGY

BOOKS - SARAS PUBLICATION

DO YOU KNOW QUESTIONS

Exercise

1. Who is the father of Taxonomy?



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2. _____ is one of the best sources of probiotics.



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3. The book "Systema naturae" was written by_____



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4. Binomial nomenclature was introduced by



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5. The scientific name of Bhupathy's purple frog is _____



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6. What is the another name of Arignar Anna zoological park?

A. Kanpur zoological park

B. Vandalur zoological park

C. Rajiv Gandhi zoological park

D. Indra Gandhi zoological park

Answer:



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7. _____ is the largest zoological park in India.



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8. _____ is the neurotoxin found in Hooded pitohui



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9. _____ is known as the African giant earthworm.

A. *Drowida nilamburansis*

B. *Microchaetus rappi*

C. *Eudrilus eugeniae*

D. *Lampito mauritii*

Answer:



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10. _____ is the species of earthworm in Kerala that reaches up maximum length upto 1 meter.

A. *Drowida nilamburansis*

B. *Microchaetus rappi*

C. Eudrilus eugeniae

D. Lampito mauritii

Answer:



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11. _____ is the fastest moving land insect, they move as fast as _____ km per hour.

A. Earthworm, 5.3

B. Cockroach, 5.4

C. Snake, 5,8

D. Dragon fly, 5,4

Answer:



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12. Cockroaches survive without its head for a week due to _____

A. Closed circulatory system

B. Closed nervous system

C. Open circulatory system

D. Open nervous system

Answer:



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13. Cockroach hold its breath for _____ min

A. 50

B. 60

C. 30

D. 45

Answer:



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14. The viviparous cockroach is

A. *Periplaneta americana*

B. *Blattella germanica*

C. *Blatta orientalis*

D. *Diploptera punctata*

Answer:



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15. Which one of the following is the common chamber into which the intestinal, urinary and genital tracts open?

A. Anus

B. Cloaca

C. Rectum

D. Urinary bladder

Answer:



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16. _____ litres of digestive juices are poured into the alimentary canal and are reabsorbed each by

A. 6

B. 5

C. 7

D. 10

Answer:



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17. What is the pH of bicarbonates in saliva

A. 5-6.0

B. 5.4-7.4

C. 3.4-4.4

D. 2.2-3.2

Answer:



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18. Lungs contain_____ tissues around the alveoli

A. irregular connective

B. Elastic connective

C. Dense connective

D. Fibrous connective

Answer:



19. Allergens provoke an _____ response.

- A. Barrier
- B. Immune
- C. Inflammatory
- D. Active

Answer:



20. Hepatic artery brings oxygenated blood from

A. Heart

B. Lungs

C. Intestine

D. Liver

Answer:



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21. Longest cell in the human body

A. Neurons

B. Axons

C. Dendrites

D. Nissl's granules

Answer:



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22. World's first successful human kidney transplantation was done by

A. Dr. Johnny

B. Dr. Mohan Rao

C. Dr. Joseph.E.Murray

D. Dr. Bernet

Answer:



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23. Total CSF volume in adult is

- A. 100 ml
- B. 150 ml
- C. 200 ml
- D. 500 ml

Answer:



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24. How much ml of CSF is formed daily?

A. 150

B. 400

C. 250

D. 500

Answer:



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25. The intensity of sound is measured in

A. Wavelength

B. Intensity

C. Decibels

D. Frequency

Answer:



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26. Half life of insulin

A. 5 min

B. 6 min

C. 1 mikn

D. 2 min

Answer:



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27. Write the normal glucose values of blood ?

A. 70-110 mg/dl

B. 80 - 140 mg/dl

C. 110-140 mg/dl

D. 120-160 mg/dl

Answer:



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28. Matching:

1. Discovery of cell	a)	Nerve cell
2. Unicellular organism	b)	spirogyra
3. Multicellular organism	c)	Robert Hooke
4. Longest cell	d)	Cyano bacteria
5. Prokaryotic cell	e)	Amoeba



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29. As per World Guinness Records _____ is the smallest breed of cow.

A. Kangeyam

B. Malvi

C. Vechur

D. Gir

Answer:



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30. Which of the cattle breed yield much milk than what they eat?

A. Vechur

B. Kangayam

C. Gir

D. Ongole

Answer:



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31. Write notes on *Thermus aquaticus*



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32. What is meant by phylogenetic classification?



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33. Animals such as sponges lack nervous tissue and muscle tissue, what does this tell

you about sponges.



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34. Write short notes on spider silk



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35. Write short notes on *Conus marmoreus*.



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36. Name some epithelial tissue disorders.



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37. The stored lipids are in the form of adipose tissue. Are they coloured? why?



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38. What type of connective tissue is damaged when you cut your index finger?.



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39. Define Biopsy



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40. Define Autopsy



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41. What are the important connective tissue disorders.



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42. What are the disorders of autoimmune connective tissue?



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43. Write short notes on stickler syndrome.



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44. Write short notes on Rhabdomyosarcoma.



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45. Write short notes on Rheumatoid.



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46. Write short notes on sjogre's syndrome



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47. You are looking at a slide of a tissue through the compound microscope and you see striped branching cells that connect with one another. What type of muscle are you viewing.



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48. Write short notes on palmaris muscle



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49. Write short notes on Parkinson's disease.



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50. Write short notes on Alzheimer's disease.



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51. A player has sustained a severe injury during football practice and was told that he has a torn knee cartilage. Can he expect a

quick uneventful recovery? Explain your response.



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52. Why three chambered heart of frog is not as efficient as the four chambered heart of birds and mammals?



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53. What features of the small intestine enables it to absorb digested food efficiently?



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54. What are the harmful effects of food adulterants?



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55. What are the common food adulterants?



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56. What are surfactants?



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57. Why do people snore?



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58. Name the two sources of blood supply to the liver.



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59. Why there are no blood capillaries in the cornea of the eye and cartilage? How are these regions supplied with the required nutrients?



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60. What is 'detrusor' muscle?



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61. What is osmolarity and how is it expressed.



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62. Name the functional deficiency of serotonin of norepinephrine. List their symptoms and treatment to be given.



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63. Which myofilament has the binding sites for calcium? Name the specific molecule that binds with calcium.



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64. CTS-Define.



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65. Why is thalamus considered as a relay centre for impulses?



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66. What is conjunctivitis?



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67. Name the parts of the organ of equilibrium involved in the following functions.

(a) Linear movement of the body.

(b) Changes in the body position.

(c) Rotational movement of the head.



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68. Name the parts of the organ of equilibrium involved in the following functions.

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69. Name the parts of the organ of equilibrium involved in the following functions.

(a) Linear movement of the body.

(b) Changes in the body position.

(c) Rotational movement of the head.



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70. Comment on homeostasis



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71. What is the amino acid sequence of vasopressin?



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72. What is the amino acid sequence of oxytocin?



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73. Define circadian rhythm.



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74. Why laughing is good for health?



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75. Old age people are sick often, why?



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76. What is BMR ?



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77. Define hyperparasitism.



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78. What is thawing?



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79. Though the bile juice of liver has no digestive enzyme but is very essential for proper digestion of food, especially of the fats.

Discuss the following?

What is composition of bile?



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80. Though the bile juice of liver has no digestive enzyme but is very essential for proper digestion of food, especially of the fats.

Discuss the following?

How it helps in digestion oil fats and other nutrients of food?



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81. Though the bile juice of liver has no digestive enzyme but is very essential for proper digestion of food, especially of the fats.

Discuss the following?

How it helps in digestion oil fats and other nutrients of food?



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82. What would happen if HCl is not secreted in the stomach?



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83. Do you feel ill after drinking milk or after eating dairy products? Give reasons?



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84. What happens to the protein molecules in food, from the time it is swallowed, to the time its products are built up in the cytoplasm of a muscle cell.



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85. What are the harmful effects of the usage of chemical preservatives and artificial enhancers?



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86. Write short notes on anastomoses.



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87. When blood volume drops down abruptly, what happens to the stroke volume? State whether it increases or decreases?



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88. Write short notes on varicose veins.



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89. Write short notes on embolism.



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90. What is sporadic goiter?



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91. What is the injection administered to diabetic patients? Why is it given as injection and not as oral pills?



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92. Why should we avoid use of synthetic soft drinks?



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93. How do honey bee extract honey from the flowers?



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94. What is the drug used to treat high blood pressure? Explain its action with a flow chart.



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95. Pituitary gland is commonly called " master gland " of the body .Why?



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96. Pituitary gland is located in a depression in the sphenoid bone of skull below the brain, so it is also called hypothalamus cerebri. Discuss the following.

Discuss the role of hypothalamus andf

pituitary as a co-ordinated unit in maintaining physiological processes.



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97. Pituitary gland is located in a depression in the sphenoid bone of skull below the brain, so it is also called hypothalamus cerebri. Discuss the following.

How does the posterior lobe of pituitary help in osmoregulation?



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98. Endocrine glands control and co-ordinate the body functions through secreting certain chemical messengers called hormones. Due to certain physiological reasons, the blood glucose level of otherwise normal persons increases.

Give the possible cause for the increases in blood glucose level.



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99. Endocrine glands control and co-ordinate the body functions through secreting certain chemical messengers called hormones. Due to certain physiological reasons, the blood glucose level of otherwise normal persons increases.

What is the chemical nature of this hormone?

Discuss its role in the body.



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100. Endocrine glands control and co-ordinate the body functions through secreting certain chemical messengers called hormones. Due to certain physiological reasons, the blood glucose level of otherwise normal persons increases.

How can this condition be reversed?



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101. ____ is the oldest viable seed of Arctic Tundra



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102. Powered seeds of *moringa oleifera* is used to ____



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103. _____ seed was isolated from king Herod's palace near dead sea



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104. The local name of phoenix dactylifera is



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105. The size of ribosomes and their sub units are give in

- A. SI unit
- B. Solubility factor
- C. Svedberg unit
- D. Sub - cellular unit

Answer:



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106. _____ word is used by the wood anatomists to refer the vessels as pores in transverse section.

A. Tyloses

B. Porous

C. Vessels

D. Fibers

Answer:



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107. _____ are tylose like ingrowths found in gymnosperms and angiosperms.

A. Phellogen

B. Tylosoids

C. complementary tissue

D. Sap wood

Answer:



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108. Which of the following is used in fumigation.

A. Potassium permanganate

B. Phosphorus

C. Sulphur

D. Magnesium sulfate

Answer:



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109. Aquaporin is discovered by

A. Peter Agre

B. Went

C. Ringer

D. Wellenten

Answer:



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110. _____ is a Ca^{2+} modulating protein in eukaryotic cells.

A. Chlorophyll

B. Calmodulin

C. Auxin

D. none of these

Answer:



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111. _____ are indicators of SO_2 pollution.

A. Lichens

B. Mycorrhizae

C. Anthoceros

D. Nostoc

Answer:



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112. The most abundant protein found on earth is

- A. Elastin
- B. RUBISCO
- C. Actin
- D. Collagen

Answer:



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113. Kranz anatomy is one of the characteristics of the leaves of _____

A. C_1 plants`

B. C_2 plants

C. C_3 plants

D. C_4 plants

Answer:



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114. _____ resistant respiration is believed to be responsible for the climacteric in fruits.

A. Cyanide

B. Oligomycin

C. 2,4 DNP

D. Rotenone

Answer:



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115. Red colour in various parts of plants is due to the presence of _____

- A. Carotenoids
- B. Phytochrome
- C. Anthocyanin
- D. A and B

Answer:



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116. One single maize root apical meristem can give rise to _____ new cells per hour.

A. 17000

B. 16500

C. 17500

D. 16000

Answer:



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117. Who was first to obtain viruses in crystalline form?

A. Edward Jenner

B. W.M stanely

C. Adolf Mayer

D. Beijerinck

Answer:



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118. The Nobel prize in chemistry 1946 was awarded to

A. stanley and Northrop

B. Luc Montagnier and Robert Gallo

C. Dimitry Ivanowsky

D. Beijerinck

Answer:



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119. Tulip breaking virus belong to

A. Arenaviridae

B. Filoviridae

C. Potyviridae

D. Flaviviridae

Answer:



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120. Viruses of _____ group are commercially exploited as insecticides

A. Baculoviridae

B. bunyaviridae

C. Arenaviridae

D. polyviridae

Answer:



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121. Which algae cause red tide?

- A. Euglenoids
- B. Dinoflagellates
- C. Xanthophyta
- D. Pyrrophyta

Answer:



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122. Founder of modern Bacteriology _____

A. Robert Koch

B. Christian Gram

C. Fredrick Griffith

D. Lederberg

Answer:



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123. The Nobel Prize in Medicine 1905 was awarded to

A. David H. Bergy

B. C.G Ehrenberg

C. Robert Koch

D. Copeland

Answer:



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124. Which gram negative bacterium caused duodenal and gastric ulcers?

A. *Bacillus thuringiensis*

B. *Helicobacter pylori*

C. Baculovirus

D. Adenovirus

Answer:



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125. PHB is a

A. Synthetic plastic

B. Synthetic fibre

C. Microbial fibre

D. Microbial plastic

Answer:



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126. _____ is a superbug which breakdown hydrocarbons

A. (a) *Pseudomonas putida*

B. (b) Agrobacterium

C. (c) Thermus aquaticus

D. (d) Methanobacterium

Answer:



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127. What is Pruteen?

A. Algal protein

B. Single cell protein

C. Fungi

D. Viral disease

Answer:



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128. Pruteen is derived from

A. (a) Halobacterium

B. (b) Pseudomonas

C. (c) Methylophilus

D. (d) Methenobacterium

Answer:



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129. Write notes on *Thermus aquaticus*

A. Taq polymerase

B. Single cell protein

C. Fatty acid

D. Minerals

Answer:



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130. _____ is exploited for the production of β carotene.

- A. Agrobacterium
- B. Thermus aquticus
- C. Halobacterium
- D. Pseudomonas

Answer:



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131. Who is the Father of Indian Mycology?

- A. E.J. Butler
- B. P.A. Micheli
- C. H.R. Buller
- D. T.S. Sadasivan

Answer:



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132. Who is the Father of Indian Phycology?

A. M.O. Parthasarathy

B. Shiv Ram Kashyap

C. Prof. Bibal Sahni

D. H.R. Buller

Answer:



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133. Father of indian Palaeobotany

A. M.O. Parthasarathy

B. Shiv Ram Kashyap

C. Prof. Birbal Sahni

D. H.R.Buller

Answer:



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134. Shiv ram kashyap has done a lot of work on

A. Father of India Phycology

B. Father of India Mycology

C. Father of Indian Bryology

D. Father of Palaeobotany

Answer:



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135. Kelps are the rich source of

A. Iodine

B. Potassium

C. Magnesium

D. Phosphorus

Answer:



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136. _____ deals with the cultivation of flowers and ornamental crops .

A. Floriculture

B. pomology

C. Fruticulture

D. Flower culture

Answer:



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137. Asexual reproductive stage of fungus is called _____



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138. Sexual reproductive stage of fungus is called _____



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139. World 's smallest water-lily is

A. Nymphaea ondinea

B. Nymphaea petaloidea

C. Nymphaea thermarum

D. Nymphaea nucifea

Answer:



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140. International year of pules

A. 1015

B. 2016

C. 2017

D. 2018

Answer:



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141. The seeds of _____ are used in necklaces.

A. *Adenanthera paronina*

B. *Abrus precatorius*

C. Galega officinalis

D. Clitoria ternatea

Answer: Lathyrus odoratus



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142. Metformin present in

A. Butea monosperma

B. Galega officinalis

C. Tephrosea purpurea

D. *Lathyrus odoratus*

Answer:



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143. The seeds of *Adenanthera pavonia* have been used as



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144. In yucca the cross pollination carried out by

A. *Pronuba yuccasella*

B. *Bombyx mori*

C. *Actias luna*

D. *Lymantria dispar*

Answer:



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145. Water loving polar molecules are called

A. hydrophobic molecule

B. hydrophilic molecule

C. hygroscopic molecule

D. hydrolytic molecule

Answer:



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146. The production of gametes was introduced by

A. Robert Brown

B. Anton Scheider

C. Walter Flemming

D. Edward Strasburger

Answer:



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147. The DNA of cell in _____ state do not replicate

A. G

B. G_0

C. S

D. G_1

Answer:



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148. Father of plant anatomy

A. Katherine Esau

B. Nehemiah Gwew

C. Hanstein

D. Harting

Answer:



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149. A legendary role model for women in science is

A. (a) Katherine Esau

B. (b) Tschirch

C. (c) Bloch

D. (d) Sanio

Answer:



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150. Anatomy of seed plants written by

A. Haberland

B. Hofmeister

C. Schleiden

D. Katherin Esau

Answer:



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151. Longest fibers occur in

A. Boehmeria

B. Cotton

C. Coconut

D. Abaca

Answer:



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152. The length of ramie fibre is

A. 35cm

B. 45cm

C. 55cm

D. 65cm

Answer:



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153. Membrane which inhibit the movement of both solvent and solute molecules is

A. Impermeable

B. Semipermeable membrane

C. Permeable membrane

D. All the above

Answer:



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154. Cellulosic cell wall is an example of

A. Permeable membrane

B. Semi permeable membrane

C. Impermeable membrane

D. None of the above

Answer:



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155. In _____, the biomembranes allow some solutes to pass in addition to the solvent molecules.

A. Permeable membrane

B. Semipermeable membrane

C. Selectively permeable membrane

D. Impermeable membrane

Answer:



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156. _____ made first observation of mineral nutrition.

A. Wood word

B. Liebig

C. Van Helmont

D. William

Answer:



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157. "Soil provides mineral nutrients required for their growth". Explained by

A. Wood word

B. De Saussure

C. Liebig

D. Julius Von Sachs

Answer:



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158. "plant growth depends on by roots from soil." - Explained by

A. Wood word

B. De Saussure

C. Liebig

D. Julius Von Sachs

Answer:



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159. _____ demonstrated growing a plant in a defined nutrient solution.

A. Wood word

B. De Saussure

C. Liebig

D. Julius Von Sachs

Answer:



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160. Who coined the term hydroponics ?

A. Julius Von Sachs

B. William Frederick Goerick

C. Liebig

D. Wood word

Answer:



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161. Which of the following is chemical chelating agent?

A. Siderophores

B. EDTA

C. NPK fertilizer

D. All of these

Answer:



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162. Tricarboxylic Acid (TCA) cycle was described by

A. Embden

B. Pepys and Blackman

C. Lipmann

D. Adolf Kerbs

Answer:



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163. Who received Nobel Prize for chemistry in 1978 for his work on the coupling of oxidation and phosphorylation in mitochondria.

A. nKerbs

B. Lipmann

C. Peter Mitchell

D. (a) and (b)

Answer:



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164. Two phenoxy herbicides are

A. 2,4-D and 2,4,5-T

B. IAA and PAA

C. TIBA and 2,4-D

D. IBA and TIBA

Answer:



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165. The term florigen was coined by

A. Maheswari

B. Chailkyan

C. R.Gane

D. Richmond Hang

Answer:



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Example

1. Match the following

13.	$ \cos \alpha \vec{i} + \cos \beta \vec{j} + \cos \gamma \vec{k} $ is: (Where α, β, γ are angles made by \vec{r} with coordinates axes.)	(a) 0
14.	$\vec{j} \times \vec{j} =$	(b) 2
15.	$\vec{a} = 2\vec{i} + \vec{j} + \vec{k}$ $\vec{b} = \vec{i} + 2\vec{j} + 2\vec{k}$ Then $ \vec{a} \times \vec{b} $ is:	(c) 1
16.	The projection of $\vec{i} + 2\vec{j} + \vec{k}$ on $2\vec{i} + \vec{j} + 2\vec{k}$ is:	(d) $3\sqrt{2}$



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