



### **BIOLOGY**

## BOOKS - MCGROW HILL EDUCATION BIOLOGY (HINGLISH)

### **MISCELLANEOUS QUESTIONS**

**Multiple Choice Questions** 

1. What among the following covers the long

bones at their ends?

- A. Adipose tissue
- B. Arcolar tissue
- C. Spongy bones
- D. Muscles

#### Answer: C



2. Respiratory pigment present in the blood of

a cockroach is

A. haemoglobin

B. haemocyanin

C. haemoerythrin

D. None of these

Answer: D

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3. Which one of the following is not a part of

the stele in plants?

#### A. Pericycle

- B. vascular bundle
- C. endodermis
- D. pith

#### Answer: C



4. Tendons are made up of:

A. loose connective tissue

B. yellow elastic tissue

C. white fibrous tissue

D. epithelial tissue

Answer: C

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5. Maximum ribosomes would be present in,

A. dead cells

B. parenchyma cells

### C. lignified cells

D. meristematic cells

#### Answer: D



**6.** Which among the following helps in formation of new centrioles?

A. Nuclear DNA

B. Pericentriolar satellite

C. Kinoplasm

D. Centriolar DNA

#### Answer: B



7. Nucleic acids are not found in,

A. Mitochondria

**B.** Peroxisomes

C. Chloroplasts

#### D. Ribosomes

Answer: B

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**8.** Lampbrush chromosomes can be seen during:

A. Metaphase

B. Zygotene

C. Anaphase

#### D. Diplotene

#### Answer: D

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#### **9.** Microtubule : Tubulin :: Microfilament:

A. Keratin

B. Myosin

C. Actin

D. Tubulin





# **10.** Which of the following would have oxysomes:

A. mitochondria

B. peroxisomes

C. ribosomes

D. nucleus





# **11.** Which one does not qualify as cell inclusion?

A. reserve food

B. secretory product

C. mineral matter

D. sap vacuole





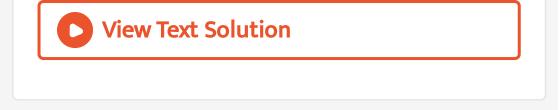
#### 12. Who discovered Ribosomes,

A. Palade

**B.** Brown

C. Balbiani

D. Benda



## **13.** Which one among the following is not a method of ingestion in Amoeba?

A. Cyclosis

B. Circumfluence

C. Invagination

D. Circumvallation





**14.** Which disease is not spread through droplet contact,

A. German measles

B. influenza

C. diphtheria

D. measles



15. An allergic disease is,

A. Rhinitis

B. Beri-beri

C. Goitre

D. Kwashiorkor

Answer: A

16. Pick out the bacterial disease,

A. Swine flu

- B. Pneumonia
- C. Mumps
- D. Small pox

Answer: B



17. Which one is a direct method of

transmission of diseases?

A. Fomite borne

B. Air borne

C. Soil borne

D. Vehicle borne

Answer: C

18. Choose a non-communicable disease

among the following?

A. Hyperglycemia

B. Typhoid

C. Cholera

D. Tuberculosis

Answer: A

19. Elephantiasis is caused by

A. viruses

- B. platy helminths
- C. protozoans
- D. aschelminthes

Answer: D



20. Fertilization in human beings occurs in,

A. ovaries

B. fallopian tubes

C. uterus

D. vagina

Answer: B



21. A male frog has well developed

A. nuptial pad

B. vocal sacs

C. dermal plicae

D. Both a and b

Answer: D



22. Number of cranial nerves in frog are

A. 12

B. 10

C. 8

D. 24

Answer: B



23. Number of cranial nerves in man are

A. 12

B. 10

C. 8

D. 24



**24.** Which one among the following is not found in a frog?

A. Pulmonary Respiration

B. Buccopharyngeal Respiration

C. Cutaneous Respiration

D. Stenal Respiration

Answer: D

25. Salivary amylase works at a pH of:

A. 7.4

B. 4.2

C. 6.8

D. 10.4

#### Answer: C



**26.** Digestion of fats in man occurs maximum in?

A. buccal cavity

B. stomach

C. small intestine

D. large intestine

Answer: C

27. Which of the following is involved in

activation of chymotrypsinagen,

A. Chymotrypsin

B. Trypsinogen

C. Trypsin

D. Carboxypeptidase

Answer: C

28. Chyle is rich in:

A. Proteins

**B.** Fats

C. Carbohydrates

D. Nucleic acids

**Answer: B** 



**29.** Absorption of amino acids in humans occurs in,

A. ileum

B. duodenum

C. caecunm

D. all the above

Answer: B

**30.** Which one is a feature of Gram positive bacteria,

A. Retain blue colour with Gram stain

B. Do not retain blue colour with Gram

stain

- C. Mesosomes are less prominent
- D. Mesosomes are absent

Answer: A

**31.** In stomach, gastric acid is released by,

A. peptic cells

B. gastric cells

C. acidic cells

D. parietal cells

Answer: D



32. Where are the Nucleic acids digested in

human body

A. Stomach

B. Large intestine

C. Small intestine

D. Mouth

Answer: C

#### 33. The special feature of bile juice is that it,

A. has no enzyme

B. has amylase

C. contains lipase

D. contains water



34. The common passage for bile and

pancreatic juice is

A. ampulla of vater

B. duct of Santorini

C. duct of wirsung

D. ductus choledochus

Answer: A

35. Which organ does not have any digestive

enzymes,

A. salivary gland

B. pancreas

C. liver

D. stomach

Answer: C

36. Which taxonomic category contains one or

more related genera?

A. Species

B. family

C. phylum

D. class

**Answer: B** 

### 37. Chief excretory product of cockroaches is,

A. urea

B. uric acid

C. ammonia

D. water

Answer: B



**38.** The fungi growing on cow dung belongs to,

A. zygomycetes

B. asidiomycetes

C. Qomycetes

D. Ascomycetes

Answer: A

39. Which one of the following viruses have

genetic material as RNA except,

A. polio virus

B. potato mosaic virus

C. influenza virus

D. coliphage arphi imes 174

Answer: D

40. Sleeping sickness is transmitted by,

A. Glossina sp.

B. Phlebotomus sp.

C. Aedes sp.

D. Anopheles sp.

Answer: A



**41.** Maiden hair tree, a gymnosperm belongs to,

A. Ginkgopsida

B. Cycadopsida

C. Gnetopsida

D. Coniferopsida

Answer: A

42. Which algae does not contain fucoxanthin,

A. Fucus

B. Macrocystis

C. Dictyota

D. Caulerpa

Answer: D



**43.** In which veneral disease the helper T-cells are attacked,

A. Genital warts

B. AIDS

C. Gororonoea

D. Hepatitis B

Answer: B

44. Which prevents sperms from reaching an

egg and prevent pregnancy?

A. LNG-20

B. i-pill

C. Saheli

D. cervical cap

Answer: D

45. Which of the following extra embryonic

membrane stores metabolic wastes,

A. Yolk sac

**B.** Chorion

C. Allantois

D. Amnion

Answer: D

46. The digestive enzymes of cellular

compounds are confined to,

A. lysosomes

B. ribosomes

C. peroxisomes

D. polysomes

Answer: A

**47.** A genetic unit that codes amino acid sequence of a complete polypeptide is

A. Recon

**B.** Intron

C. Muton

D. Cistron

Answer: D

**48.** The start signal in mRNA for protein synthesis is,

A. AUG

B. UAG

C. GUA

D. UGA

Answer: A

**49.** The first product of pyruvic acid in Mitochondria

A. Isocitric acid

B. Malic acid

C. Citric acid

D. Oxaloacetic acid

### Answer: D

50. Pollination among different flowers on the

same plant is termed as,

A. Xenogamy

B. Geitonogamy

C. Autogamy

D. Cleistogamy

Answer: B

51. Gases found in primitive atmosphere were,

A.  $O_2$  and  $CO_2$ 

B.  $O_2, CO_2, CH_4$ , water vapour

C.  $CH_{24}, NH_4, H_2$ , water vapour

D.  $CH_4$ ,  $NH_4$ ,  $CO_2$ , water vapour

Answer: C

52. The spider webs are made up of,

A. Keratin

B. Myosin

C. Glutelin

D. Fibroin

Answer: A



53. Sounds above which level are considered

hazardous noise pollution?

A. Above 80 dB

B. Above 30 dB

C. Above 150 dB

D. Above 120 dB

Answer: A

54. Lichens indicate pollution because,

A. they have algae

B. they have fungi

C. they are sensitive to  $SO_2$ 

D. they are sensitive to  $CO_2$ 

Answer: C



55. Natural ageing of lakes happens due to,

- A. nutrient enrichment
- B. sewage enrichment
- C. oxygen enrichment
- D. heavy metals enrichment

Answer: A



56. Poisonous gas related to Bhopal tragedy is,

A.  $CO_2$  and  $SO_2$ 

B. methylisocyanate & phosgene

C.  $SO_2$  and  $H_2S$ 

D. ethylisocyanate &  $CO_2$ 

Answer: B

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**57.** Which one indicates water pollution?

A. Algae

B. Eicchornia

C. Lichens

D. Chironomous

#### Answer: D



# **58.** Which one is least responsible for air pollution?

A. CO

# $\mathsf{B.}\,SO_2$

C. Hydrocarbons

D.  $N_2O$ 

#### Answer: D



# **59.** Which organism will show higher DDT concentration

A. Phytoplankton

B. Predator fish

C. Zooplankton

D. Seagulls

### Answer: D



**60.** Harmful effect of  $SO_2$  on plants include:

A. Protein destruction

B. Plasmolysis

C. Chlorophyll destruction

D. Golgibody destruction

### Answer: C

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# 61. Basic functional unit of human kidney is

A. Henle's loop

B. Nephridia

C. Nephron

D. Pyramids





# **62.** Which one stimulates secretion of aldosterone by adrenal cortex in man,

A. Angiotensin II

B. Angiotensin I

C. Renin

D. Angiotensinogen





# **63.** Glucose and amino acids are reabsorbed in which part of Nephron?

A. proximal tubule

B. distal tubule

C. loop of Henle

D. collecting duct





# 64. Accumulation of urea in blood is called,

A. Uremia

- B. Renal septic
- C. Oedema
- D. Tubulonephritis

Answer: A



**65.** Funnel shaped structure of kidney which

leads to ureter is,

A. Minor calyx

B. Renal pelvis

C. Renal papilla

D. Renal Bertini

### Answer: B





66. When a cell is fully turgid which of the

following will be zero?

A. Turgour pressure

B. Water potential

C. Wall pressure

D. Osmotic pressure

#### Answer: C



**67.** Loss of water in the form of vapour during transpiration occurs through,

A. stomata

B. cutide

C. bank

D. lenticels

Answer: A



68. The most acceptable mechanism of phloem

translocation is,

A. mass flow

B. diffusion

C. endosmosis

D. protoplasmic streaming

Answer: A

69. Sunken stomata are found in,

A. Xerophytes

B. Hydrophytes

C. Mesophytes

D. Opsanophytes Burzoo

Answer: A



70. Stomata: Transpiration :: Hydathode:

# A. Guttation

B. Oozing

C. Bleeding

D. Root Pressure

Answer: A



71. Which one hands over energy absorbed by

it to cholorphylla during photosynthesis,

- A. Bacteriochlorophyll
- B. Chlorophyllic
- C. Xanthophylls
- D. Chlorophylld

### Answer: C



# 72. Photosynthetic pigments are found on,

# A. Stroma

- B. Outer membrane
- C. Thylakoids
- D. Mitochondria

### Answer: C

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# **73.** Which scientist is associated with "Red drop" in photosynthesis?

A. Robert Emerson

B. Robert Hill

C. De Robertis

D. Blackman

Answer: A

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**74.** Which light is most effective for photosynthesis?

A. Blue

B. Green

C. Red

D. White

Answer: A

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**75.** Which molecules are present in higher concentration in photosystem II than photosystem I?

A. Chlorophyll a

**B.** Carotenoids

C. Chlorophyll b

D. All of them

Answer: B

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**76.** Which one is not a product of light dependent reactions of photosynthesis?

## A. $CO_2$

### B. ATP

 $\mathsf{C}.\,O_2$ 

### D. NADPH

Answer: A



# 77. Cyclic photophosphorylation is performed

by,

A. PS I

B. PS I and II

C. PS II

D. Entire cloroplast

Answer: A



78. Photorespiration in plants occurs in,

A. Peroxisomes

B. Chloroplasts

C. Mitochondria

D. All of them

Answer: D

View Text Solution

**79.** End products of Calvin cycle during photosynthesis are,

A. starch

B. sucrose

C. carbohydrates

D. all of them

Answer: D

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**80.** In which plant, stomata does not open at night?

A. Agave

B. Mango

C. Opuntia

D. Aloe

Answer: B

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81. Indian-American scientist associated with

First Artificial gene is,

A. Hargobind Khorana

B. P. Maheshwari

C. S. C. Maheshwari

D. D. Konar

Answer: A

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82. Which amino acid is required for synthesis

of Thyroxine hormone in human body?

A. Proline

B. Tryptophase

C. Tyrosine

D. Threonine

Answer: C

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83. Which endocrine gland in not controlled by

pituitary gland?

A. Thyroid

B. Adrenal cortex

C. Parathyroid

D. Ovaries

### Answer: C

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# **84.** Which gland performs a dual function?

A. Adrenal

B. Thyroid

C. Pancreas

D. Pituitary

### Answer: C



# 85. How many lobes does the pituitary gland

has?

A. 3

B. 2

C. 4

D. 7

#### Answer: A



# 86. Deficiency of thyroid hormone in infants

results

A. Myxoedema

B. Cretinism

- C. Grave's disease
- D. Exophthalmic goitre

#### Answer: B



### 87. Which cells of pancreas produce Insulin?

A.  $\alpha$ -cells

B.  $\beta$ -cells

C.  $\gamma$ -cells

D. all of them

Answer: B

View Text Solution

# **88.** Kidneys develop from which embryona lalyer,

A. Endoderm

B. Ectoderm

C. Mesoderm

D. (a) and (b)

Answer: C

View Text Solution

89. The hormone which is exclusively found in

a pregnant woman is,

A. Relaxin

B. Estrogen

C. Progesterone

D. Leutinising hormone

### Answer: A

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# **90.** Which of the following induces parturition?

A. Vasopressin

B. Oxytocin

### C. GH

### D. TSH

Answer: B

View Text Solution

# **91.** Which one does not contribute to formation of new species?

A. Mutation

**B.** Isolation

C. Gene migration

# D. Budding

### Answer: D

View Text Solution

**92.** Stings of honey bee and scorpion are examples of:

A. homologous organs

B. analogus organs

C. vestigial organs

D. divergent evolution

Answer: B

View Text Solution

**93.** Which of the following is an example of missing link?

A. Neopilina

B. Protopterus

C. Lycaenops

D. Latimeria

Answer: C

View Text Solution

94. The silent valley in Kerela is a/an,

A. hotspot

B. wildlife safari park

C. biosphere reserve

D. Arboreta



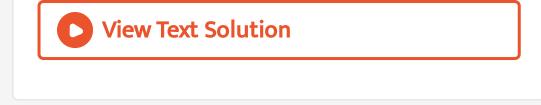


95. Biodiversity can be conserved by,

A. agro-forestry

- B. social forestry
- C. maintaining orchards
- D. plantation

Answer: B



# 96. The percentage of alcohol in rectified spirit

is,

A. 40~%

 $\mathsf{B.}~70~\%$ 

 $\mathsf{C}.\,60~\%$ 

D. 100~%

### Answer: A





**97.** Commercial acid obtained by activity of penicillium species is,

A. Butyric acid

B. Gluconic acid

C. Citric acid

D. Acetic acid

Answer: B



**98.** Antibiotics like streptomycin act on bacteria

A. disrupting wall synthesis

B. inhibiting DNA

C. disrupting DNA synthesis

D. inhibiting ribosome function

Answer: D

**99.** Darwin's theory of Natural selection could not explain,

A. cause of discontinuous variations

B. inheritance of useful variations

C. survival of the fittest

D. formation of new species

Answer: A

100. Which mineral is most important for

photosynthesis?

A. Ca

B. Mg

C. Fe

D. Na

**Answer: B** 

101. Which virus shows reverse transcription?

A. HIV

B. Adeno

C. Herpes

D. Hepatitis B

Answer: A



102. Who carried out in vitro synthesis of DNA?

A. Levene

B. Hertwig

C. Altmann

D. Kornberg

Answer: A



103. Who discovered Reverse central dogma?

A. Crick

B. Temin

C. Baltimore

D. Nirenberg

Answer: B



104. Hydrogen bonds between two strands of

DNA can break due to,

A. High temperature

B. High pH

C. Low pH

D. All of them

**Answer: B** 

105. Eukaryotic genes that lack intron are,

A. pseudogenes

B. processed genes

C. inducible genes

D. luxury genes

Answer: D



106. If the content of Adenine in a DNA sample

is 32~%, its (G + C) content will be?

A. 18

B. 64

C. 32

D. 16

**Answer: B** 

**107.** Which codon has a dual function in a cell?

### A. UGG

B. UAC

C. UUU

D. GUG

Answer: D



108. Regulator gene-i gene produces,

A. RNA polymerase

B. Repressor

C. DNA polymerase

D. Lactose

Answer: B

**View Text Solution** 

**109.** A segment of DNA which determines the syn-thesis of complete polypeptide is called,

A. Intron

B. Exon

C. Cistron

D. Codon

Answer: C

View Text Solution

110. Which of the following ratio is constant

for a species?

### A. A + T/T + G

### $\mathsf{B.}\,A+T/G+C$

 $\mathsf{C}.\,A+G/C+T$ 

 $\mathsf{D}.\,A + C/G + T$ 

#### Answer: B

View Text Solution

111. Genotype of a supermole is,

B. trisomy of y

C. Xxy

D. yy + xxy

#### Answer: A

View Text Solution

# 112. A color blind person cannot distinguish

A. Red and Green colors

B. Red and Brown colors



D. Green and Blue colors

Answer: A

View Text Solution

**113.** Gene for sickle cell anaemia in man is located on,

A. chromosome 12

B. chromosome 7

C. chromosome 4

D. chromosome 11

#### Answer: D



# 114. Person suffering from sickle cell anaemia

becomes less susceptible to,

A. malaria

B. cholera

C. hepatitis

D. jaundice

#### Answer: A



# **115.** Sickle cell anaemia is due to mutation caused by

A. insertion

**B.** duplication

C. substitution

D. deletion

#### Answer: C



116. Trisomy of sex-chromosome result in,

A. Turner syndrome

B. Patau syndrome

C. Down syndrome

D. Klinefeiters syndrome

#### Answer: C

View Text Solution

# **117.** Genotype of a woman carrier for

haemophilia is,

A. xx

 $\mathsf{B}.\, x^h x^h$ 

 $\mathsf{C}. x^h x$ 

D.  $x^o x^o$ 

#### Answer: C

View Text Solution

### 118. A new drug developed for diabetes is from,

A. Dog

**B.** Platypus

C. Cat

D. Horse





# 119. Ants communicate through,

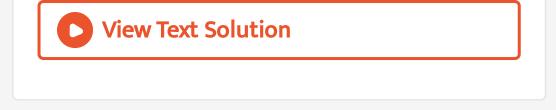
A. Enzymes

B. Sugar

C. Pheromones

D. Urine

Answer: C



**120.** Which pyramid is always up right?

A. pyramid of number

B. pyramid of energy

C. pyramid of biomass

D. both (a) and (b)



121. Stage in a woman when menstrual cycle

ceases,

A. Menarch

**B.** Puberty

C. Menopause

D. Ovulation

Answer: C



122. In a human sperm, enzymes are filled in,

A. Acrosome

B. Neck

C. Mitochondria

D. Tail

**Answer: A** 



123. Male accessory glands in human

reproductive system is,

A. Bulbourethral

**B.** Prostrate

C. Seminal vesicles

D. All of them

Answer: D

**124.** Which cells in human testis provide nourishment to developing sperms?

A. Spermatocytes

B. interstitial cells

C. sertoli cells

D. leydig cells

Answer: C

125. The Geotype of female bird is,

A. A+ZW

B.A + W

C. A+Z

D.A + ZZ

**Answer: A** 



126. Which clinical test is used for detection of

Typhoid?

A. Monteux test

B. Widal test

C. Barium meal

D. X-ray

**Answer: B** 

127. The term Silver Revolution is connected to,

A. Jute

B. Milk

C. Eggs

D. Petroleum

Answer: C



128. What is Yellow Revolution related to,

### A. Fertilisers

- B. Tomato
- C. Oil seeds
- D. Prawns

#### Answer: C



129. Yeast, Monascus is commercially used for

the production of

A. Bread

- B. Cheese
- C. Statins
- D. Wine

Answer: C



# **130.** Who discovered the antibiotic penicillin?

# A. Fleming

**B.** Pasteur

C. Aristotle

D. Sanger

Answer: A

View Text Solution

### 131. The wax present in human ear is called,

A. Sebum

B. Cerumen

C. Paraffin

D. Terpene

**Answer: B** 



132. What provides insulation to Nerve Fibres,

A. Myelin

B. Schwann cells

C. Prostaglandin

# D. Dendrites

Answer: A

View Text Solution

**133.** Cholesterol forms vitamin D in our body on exposure to,

A. vitamin  $B_2$ 

B. uv rays

C. x-rays

D. vitamin E

Answer: B

View Text Solution

**134.** Which among the following is a structural polysaccharide

A. Chitin

B. Starch

C. Inulin

# D. Glycogen

#### Answer: A

View Text Solution

### **135.** Which one is a monosaccharide,

A. Lactose

**B.** Sucrose

C. Maltose

D. Fructose





# **136.** Which cells store fats in our body,

A. Lipocytes

- B. Adipocytes
- C. Wax cells
- D. Osteocytes



**137.** The most abundant protein of animal world is,

A. Collagen

B. Keratin

C. Melanin

D. Actin

Answer: A



\_\_\_\_\_



# 138. The most abundant protein of plant world

is,

A. Chlorophyll

B. Rubico

C. ATP

D. NADPH



**139.** The net gain of ATP molecules from Kreb's cycle is,

- A. 18
- B. 32
- C. 36
- D. 38



140. Which of the following is a non-mineral

element?

A. Mg

B. Zn

C. N

D. Fe

Answer: C

141. Which hormone is liberated by Nodule

forming bacteria

A. Auxin

B. Giberellin

C. Ethylene

D. Cytokinin

Answer: D

**142.** Which one is a component of middle lamella?

A. Phosphorus

B. calcium

C. zinc

D. chlorine

Answer: B

143. Lecithin is an example of,

A. sterol

B. glycolipid

C. phospholipid

D. protein

Answer: C



144. Renaturation of DNA occurs at,

- A. high temperature
- B. low temperature
- C. low pH
- D. high pH

Answer: B



145. Which one helps in blood clotting?

A. Thrombin

B. Keratin

C. Albumin

D. Myosin

Answer: A

View Text Solution

**146.** What helps to store oxygen in our muscles?

A. Actin

B. Myosin

C. Myoglobin

D. Haemoglobin

Answer: C

View Text Solution

# 147. Choose an example of single cell protein

A. Spirulina

B. Keratin

C. Egg

D. Cheese

#### Answer: A



**148.** Natural insecticide extracted from chrysanthemum is,

A. Rotenone

B. Pyrethrum

C. Thruioside

D. Nicotine

Answer: B



149. Ornithophillous flowers are pollinated by:

A. Wind

B. Bats

C. Birds

D. Snail

#### Answer: C

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150. Pollination of flowers by ants is called,

A. Chiropterophilly

B. Myrmecophily

C. Entomophily

D. Hydrophily





# **151.** Which plant has leaves with parallel venation?

A. Banana

B. Banyan

C. Mango

D. Rose





# **152.** Which one of the following is an example of a living mechanical tissue?

A. Collenchyma

B. Parenchyma

C. Scterenchyma

D. Chlorenchyma





# **153.** Which one of the following pairs is incorrect?

A. Pituitary-Adrenalin

B. Testis-Testosterone

C. Ovary-Estrogen

D. Pancreas-Insulin





# **154.** Which cell organelle is also called the 'suicidal bag'?

A. Centrosome

B. Mesosomes

C. Lysosomes

D. Peroxisomes





# **155.** In binomial nomenclature the first part of the name is

A. Species

B. Genus

C. Family

D. Order





# 156. Ascaris belongs to

- A. Platyhelminthes
- B. Nematoda
- C. Cnidania
- D. Sponges



# 157. Latin name of Mango is

- A. Solanum tuberosum
- B. Mangifera indica
- C. Azadirachtus indica
- D. Cassia fistula



158. Mineral ion associated with haemoglobin

is

A. Cu

B. Fe

C. Mg

D. Ca



159. Which one is an abiotic component of the

ecosystem?

A. Temperature

B. Bacteria

C. Fungi

D. Algae

Answer: A

160. Experimental material used by Morgan to

study Genetics was

A. Pea plant

B. Drosophilla

C. Snapdragon

D. Man

