

BIOLOGY

BOOKS - TRUEMAN BOOK COMPANY BIOLOGY (HINGLISH)

NEET (UG) - 2018 (Conducted by CBSE on 06-05-2018)



1. The term for similarity in organ structure seen in great diversity is

Or

The similarity of bone structure in the forelimbs of many vertebrates is an example on

- A. Adaptive radiation
- B. Convergent evolution
- C. Analogy

Answer:
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2. In which disease does mosquito transmitted pathogen cause chronic inflammation of lymphatic vessels
A. Amoebiasis
B. Ringworm disease
C. Ascariasis
D. Elephantiasis
Answer:
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D. Homology

3. Conversion of milk to curd improves its nutritional value of increasing
the amount of
A. Vitamin E
B. $Vita \min B_{12}$
12
C. Vitamin A
D. Vitamin D
Answer:
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4. Which of the following characteristics represent 'Inheritance of blood
groups' in humans?
a. Dominance
b. Co-dominance

c. Multiple allele

d. Incomplete dominance e. Polygenic inheritance A. (a),(c) and (e) B. (b),(d) and (e) C. (a),(b) and (c) D. (b),(c) and € **Answer: Watch Video Solution** 5. Among the following sets of examples for divergent evolution, select the incorrect option A. Eye of octopus ,bat and man B. Brain of bat ,man and cheetah C. Heart of bat ,man and cheetah

D. Forelimbs of man ,bat and cheetah
Answer:
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6. Which of the following is not an autoimmune disease?
A. Vitiligo
B. Alzheimer's disease
C. Rheumatoid arthritis
D. Psoriasis
Answer:
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7. Match the items given in Column I with those in Column II and select

the correct option given below

	Column-I	S. Martin . (Martin . 1995)	Column-II
1.	Glycosuria	i.	Accumulation of the acid in joints.
2.	Gout	li.	Mass of crystallised salts within the kidney.
3.	Renal calculi	iii.	Inflammation in glomeruli
4.	Glomerular nephritis	iv.	Presence of glucose in urine.

A. $\frac{a}{iv}$ i ii iii

B. $\frac{a}{ii}$ iii ii iv

C. $\frac{a}{i}$ b c d

D. $\frac{a}{iii}$ ii iii iv

d. $\frac{a}{ii}$ ii iii iii iv

Answer:



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- **8.** The contraceptive 'SAHELI'
 - A. Is a post -coital contraceptive
 - B. Is an IUD
 - C. Increases the concentration of estrogen and prevents ovulation in females .
 - D. Blocks estrogen receptors in the uterus ,preventing eggs from getting implanted .



- 9. The amnion of mammalian embryo is derived from
 - A. Ectoderm and endoderm
 - B. mesoderm and trophoblast

- C. Endoderm and mesoderm
- D. Ectoderm and mesoderm



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- 10. The difference between spermiogenesis and spermiation is
 - A. In spermiogenesis spermatozoa are formed ,while in spermiation spermatozoa are released from sertoli cells into the cavity of seminiferous tubules .
 - B. In spermiogenesis spermatozoa from sertoli cells are released into the cavity of seminiferous tubules ,while in spermiation spermatozoa are formed .
 - C. In spermiogenesis spermatozoa are formed ,while in spermiation spermatids are formed.

D. In spermiogenesis spermatids are formed, while in spermiation spermatozoa are formed.

Answer:



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11. Hormones secreted by the placenta to maintain pregnancy are

A. hCG,progestogens ,estrogens, glucocorticoids

B. hCG,hPL,progestogens ,estrogens

C. hCG,hPL,estrogen ,relaxin ,oxytocin

D. hCG,hPL,progestogens prolactin

Answer:



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12. Which of the following gastric cells indirectly help in erythropoiesis? A. Parietal cells B. Goblet cells C. Mucous cells D. Chief cells **Answer: Watch Video Solution** 13. Match the items given in Column I with those in Column II and select the correct option given below Column II Column I (i) Osmotic balance (A) Fibringen (B) Globulin (ii) Blood clotting (iii) Defence mechanism (C) Albumin iii i

b o ii i b ii

 \mathbf{a}

Answer:

D.



14. Calcium is important in skeletal muscle contraction because it

and the actin filament.

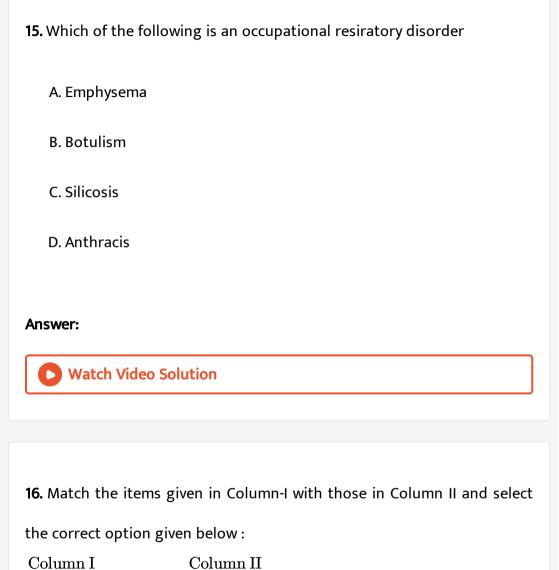
A. Prevents the formation of bonds between the myosin cross bridges

B. Detaches the myosin head from the actin filament

C. Activates the myosin ATPase by binding to it .

D. Binds to troponin to remove the masking of active sites on actin for myosin .





(i) UV-B radiation

(iv)Waste disposal

(iii) Nutrient enrichment

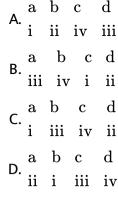
(ii)Deforestation

(a) Eutrophication

(c)Snow blindness

(B)Sanitary landfill

(d) Jhum cultivation





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17. Which one fo the following population interactions is widely used in medical science for the production of antibiotics?

A. Amensalism

C. Mutualism

B. Parasitism

D. Commensalism

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- A. Leaves
- B. Roots
- C. Latex
- D. Flowers



19. In a growing population of a country,

A. Pre-reproductive individuals are less than the reproductive individuals .

B. Reproductive and Pre-reproductive individuals are equal in number.

C. Reproductive individuals are less than the post-reproductive individuals.

D. Pre-reproductive individuals are more than the reproductive individuals.

Answer:



20. All of the following are included in 'Ex-situ conservation' except

B. Botanical gardens

A. Seed banks

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C. Sacred groves

D. Wildlife safari parks



21. AGGTATCGCAT is a sequence from the coding strand of a gene. What will be' the corresponding sequence of the transcribed mRNA?

A. UCCAUAGCGUA

B. ACCUAUGCGAU

C. UGGTUTCGCCAT

D. AGGUAUCGCCAU

Answer:



22. A woman has an X-linked condition on one of her X chromosomes.

This chromosomes can be inherited by

A. Both sons and daughters

B. Only grandchildren

C. Only sons

D. Only daughters

Answer:



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23. Match the items given in Coulmn I with those Coulmn II and select the

correct option given below

Column II Column II

- $(a) \quad \text{Proliferative phase} \quad (i) \quad \quad \text{Breakdown of endometerial lining}$
- (b) secretory phase (ii) Follicular phase
- (c) Menstruation (iii) Luteal phase
 - A. a b c
 - a b c
 - i ii iii
 - c. ^{a b c} i iii ii
 - o. a b c iii i ii



24. All of the following	g are	part of a	an o	peron	expect
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- A. A promoter
- B. An enhancer
- C. Structural genes
- D. An operator



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25. According to Hugo de Vries, the mechanism of evolution is

- A. Minor mutations
- B. Phenotypic variations
- C. Saltation

D. Multiple step mutations

Answer:



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26. Which of the following options correctly represents the lung conditions in asthma and emphysema, respectively

A. Decreased respiratory surface, inflammation of bronchioles

 $\hbox{\bf B. Increased respiratory surface , inflammation of bronchioles}\\$

C. Increased number of bronchioles, increased respiratory surface

 $\hbox{D. Inflammation of bronchioles, decreased respiratory surface} \; .$

Answer:



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27. Match the items given in Column I with those in Column II and select

the correct option given below

Column I Co

 $\operatorname{Column} \operatorname{II}$

A. Tricuspid valve (i) Between left atrium and left ventricle

B. Bicuspid valve (ii) Between right ventricle and pulmonary artery

C. Semilunar (iii) Between right atrium and right ventricle

. Semilular (III) Between right atrium and right

. ii i iii _ a b c

i ii iii

b c iii ii

> b c i ii

Answer:

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28. Match the items given in Column I with those in Column II and select the correct option given below:

	Column I		$\operatorname{Column} \operatorname{II}$
(a)	Tridal volume	(i)	$2500\text{-}3000~\mathrm{mL}$
(b)	Inspiratory Reserve volume	(ii)	$1100\text{-}1200\;\mathrm{mL}$
(c)	Expiratory Reserve volume	(iii)	$500\text{-}\ 550\ \mathrm{mL}$
(d)	Residual volume	(iv)	1000-1100mL
A B	iviii ii i abcd i ivii iii abcd		
C	· iii i iv ii		
D	a b c d · iii ii i iv		
Answ	ver:		
C	Watch Video Solution		

29. Which of the following is an amino acid derived hormone?

A. Estriol

B. Estradiol

C. Ecdysone

D. Epinephrine

Answer:



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30. which of the following structures or regions is incorrectly paired with its function.

- A. Corpus callosum : band of fibers connecting left and right cerebral hemispheres .
- B. Hypothalamus: production of releasing hormones and regulation of temperature, hunger and thirst.
- C. Limbic system: consists of fibre tracts that interconnect different regions of brain, controls movement.
- D. Medulla oblongata: controls respiration and cardiovascular reflexes

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31. Which of the following hormones can play a significant role in osteoporesis

- A. Parathyroid hormone and prolactin
- B. Estrogen and parathyroid hormone
- C. Progesterone and Aldosterone
- D. Aldosterone and prolactin

Answer:



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32. The transparent lens in the human eye is held in its place by

- A. Smooth muscles attached to the ciliary body B. Smooth muscles attached to the iris C. Ligaments attached to the iris D. Ligaments attached to the ciliary body **Answer: Watch Video Solution** 33. Which of the following terms descibe humans dentition? A. Pleurodont ,diphyodont ,heterodont
- - B. Pleurodont ,monophyodont ,homodont
 - C. Thecodont ,diphyodont ,heterodont
 - D. Thecodont ,diphyodont ,homodont

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34. Which of the following events does not occur in rough endoplasmic reticulum,

- A. Phospholipid synthesis
- B. Cleavage of signal peptide
- C. Protein glycosylation
- D. Protein folding

Answer:



35. Select the incorrect match.

- A. Polytene Oocytes of chromosomes amphibians
- B. Submetacentric -L -shaped chromosomes chromosomes
- C. Allosomes -sex chromosomes

D. Lampbrush -Diplotene bivalents
Answer:
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36. Nissl bodies are mainly composed of
A. Free ribosomes and RER
B. Nucleic acids and SER
C. DNA and RNA
D. Proteins and lipids
Answer:
Watch Video Solution

37. Many ribosomes may associate with a single mRNA to form mutiple copies of a poolypeptide simultaneously. Such strings of ribosomes are termed as

- A. Nucleosome
- B. plastidome
- C. Polyhedral bodies
- D. Polysome

Answer:



38. Which of these statements is incorrect.

A. Oxidative phosphorylation takes place in outer mitochondrial membrane .

B. Glycolysis operates as long as it is supplied with NAD that can pick up hydrogen atoms. C. Glycolysis occurs in cytosol. D. Enzymes of TCA cycle are present in mitochondrial matrix. **Answer: Watch Video Solution** 39. Identify the vertebrate group of animals characterized by crop and gizzard in its digestive system A. Osteichthyes B. Aves C. Reptilia D. Amphibia Answer:

0	Watch	Video	Solution	
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40. Ciliates differ from all other	protozoans ir
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- A. Having two types of nuclei
- B. Using pseudopodia for capturing prey
- C. Having a contractile vacuole for removing excess water
- D. Using flagella for locomotion



- 41. Which of the following animals does not undergo metamorphosis?
 - A. Starfish
 - B. Moth
 - C. Tunicate

D. Earthworm
Answer:
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42. Which of the following features is used to identify a male cockroach
from a female cockroach?
A. Presence of anal cerci
B. Forewings with darker tegmine

D. Presence of a boat shaped sternum on the 9th abdominal segment

C. Presence of caudal styles

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43. Which of the following organisms are known as chief producers in the oceans ?
A. Euglenoids
B. Cyanobacteria
C. Diatoms
D. Dinoflagellates
Answer:
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Watch Video Solution
Watch Video Solution 44. Which one of these animals is not a homeotherm?
44. Which one of these animals is not a homeotherm?
44. Which one of these animals is not a homeotherm? A. Psittacula

Answer: Watch Video Solution

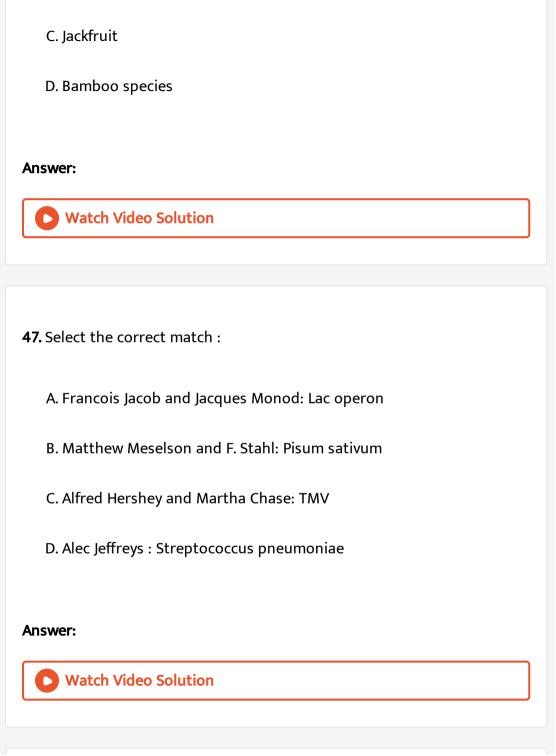
- **45.** Which of the following pairs is wrongly matched?
 - A. T.H morgan :Linkage
 - B. XO type sex determination: Grasshopper
 - C. ABO blood grouping: CO domianance
 - D. Starch synthesis in pea: Multiple alleles

Answer:



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- **46.** Which of the following flowers only once in its life-time
 - A. Papaya



B. Mango

48. Select the correct statement: A. Transduction was discovered by S. Altman B. Splicesomes take part in translation C. Punnett square was developed by a British scientist. D. Franklin Stahl coined the term 'linkage' **Answer: Watch Video Solution 49.** Which of the following has proved helpful in preserving pollen of fossils A. Sporopollenin B. Oil content C. Cellulosic intine D. Pollenkitt

Answer: Watch Video Solution

50. Offsets are prodeced by

- A. Parthenogenesis
- B. Parthenocarpy
- C. Mitotic divisions
- D. Meiotic divisions

Answer:



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51. The experimental proof for semi-conservative replication of DNA was first shown in a

A. Virus
B. Plant
C. Bacterium
D. Fungus
Answer:
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52. Winged pollen grains are present in
A. Pinus
B. Mango
C. Cycas
D. Mustard
Answer: A
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53. After karyogamy followed by meiosis, spres are produced exogenously inA. Saccharomyces

B. Agaricus

C. Alternaria

D. Neurospora

Answer:



54. Which one is wrongly matched?

A. Unicellular organism -chlorella

B. Gemma cups - marchantia

C. Biflagellate zoospores -brown algae

D. Uniflagellate gametes -polysiphonia
Answer: D
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55. In which of the following forms is iron absorbed by plants
A. Both ferric and ferrous
B. Free element
C. Ferrous
D. Ferric
Answer:
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56. Which one of the following plants shows a very close relationship with a species of moth, where none of the two can complete its life cycle without the other

- A. Viola
- B. Banana
- C. Yucca
- D. Hydrilla

Answer:



57. Oxygen is not produced during photosynthesis by

- A. Chara
- B. Cycas
- C. Nostoc

D. Green sulphur bacteria
Answer:
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58. Which of the following elements is responible for maintaining turgor
in cells
A. Calcium
B. Potassium
C. Sodium

D. Mangnesium

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Answer:

- **59.** What is the role NAD^+ in cellular respiration ?
 - A. It is the final electron acceptor for anaerobic respiration .
 - B. It is a nucleotide source for ATP synthesis
 - C. It functions as an electron carrier.
 - D. It functions as an enzyme

Answer:



- 60. Double fertilization is
 - A. Syngamy and triple fusion
 - B. Fusion of two male gamete with one egg
 - C. fusion of one male gamete with two polar nuclei

D. Fusion of two male gamete of a pollen tube with two different eggs

Answer:



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61. Pollen grains can be stored for several years in liquid nitrogen having a temperature of

A.
$$-160\,^{\circ}\,C$$

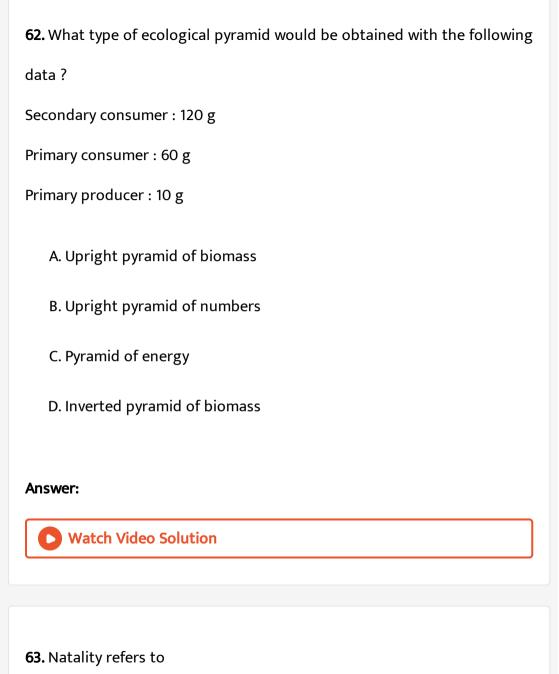
B.
$$-196\,^{\circ}\,C$$

$$\mathsf{C.}-80^{\,\circ}\,C$$

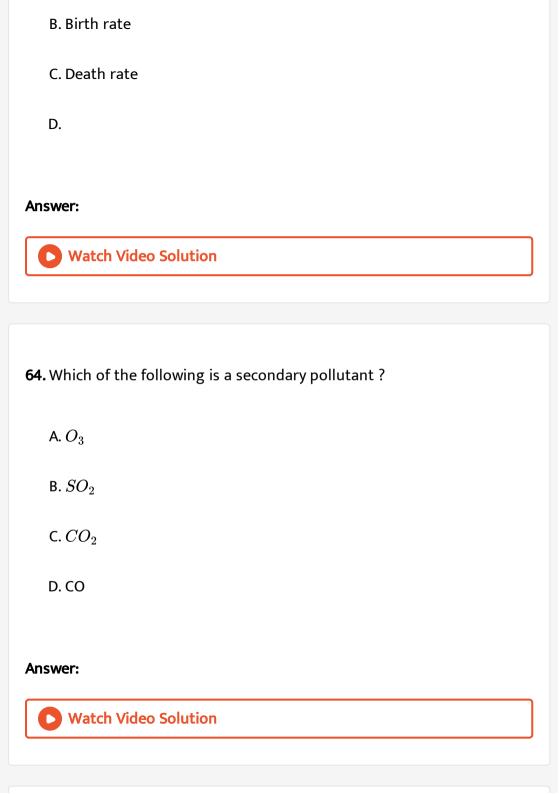
D.
$$-120\,^{\circ}\,C$$

Answer:





A. Number of individuals entering a habitat



65. In stratosphere , which of the following element acts as a catalyst in degradation of ozone an release of molecular oxygen ?

A. Oxygen

A. Oxygen

B. Fe

C. CI

D. Carbon

Answer:



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66. Niche is

A. The functional role played by the organism where it lives

B. The range of temperature that the organism needs to live

C. The physical space where an organism lives

D. All the biological factors in the organism environment .

Watch Video Solution 67. World Ozone Day is celebrated on A. 22nd april B. 16th september C. 21st april D. 5th june Answer: **Watch Video Solution** 68. Which of the following statements is correct? A. Stems are usually unbranched in both cycas and cedrus.

Answer:

C. Selaginella is heterosporous ,while salvinia is homosporous. D. Ovules are not enclosed by ovary wall in gymnosperms. Answer: D **Watch Video Solution** 69. Secondary xylem and phloem in dicot stem are produced by A. Axillary meristems B. Phellogen C. Vascular cambium D. Apical meristems Answer: **Watch Video Solution**

B. Horsetails are gymnosperms.

70. Sweet potato is a modified
A. Rhizome
B. Tap root
C. Adventitious root
D. Stem
Answer:
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71. Pneumatophores occur in
A. Submerged hydrophytes
D. Cambianana planta
B. Carnivorous plants
C. Free -floating hydrophytes

Answer: Watch Video Solution

72. Select the wrong statement

- A. Mitochondria are powerhouse of the cell in all kingdoms except monera.
- B. Pseudopodia are locomotory and feeding structutes in sporozoans .
- C. Mushrooms belong to basidiomycetes .
- D. Cell wall is present in members of fungi and plantae.

Answer:



73. Casparian strips are present in the _____ of the root

A. Endodermis
B. Cortex
C. Pericycle
D. Epidermis
Answer:
Watch Video Solution
74. Plants having little or no secondary growth are
A. Cycads
B. Conifers
C. Deciduous angiosperms
D. Grasses
A 17 17 17 17 17 17 17 17 17 17 17 17 17
Answer:
Watch Video Solution

75. A new variety of rice was patented by a foreign company, though such varieties have been present in india for a long time. This is related to

- A. Basmati
- B. Lerma rojo
- C. Sharbati sonora
- D. Co- 667

Answer:



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76. Which of the following is commolnly used as a vector for introducing a DNA fragement in human lymhocytes?

- A. pBR322
- B. λ phage

C. Ti plasmid
D. Retrovirus
Answer:
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77. Use of bioresources by multinationals companies and organisation
without authorisation from the concerned country and its people is
called the concerned county and its people is called
A. Bioexploitation
B. Biodegradation
C. Biopiracy
D. Bio- infringement

Answer:

78. The correct order of steps in polymerase chain Reaction (PCR) is

- A. Denaturation, annealing, extension
- B. Denaturation , extension ,annealing
- C. Annealing, Extension ,Denaturation
- D. Extension ,Denaturation, Annealing

Answer:



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79. In india organisation responsiable for assessing the safety of introducing genetically modifed organisms for public use is

- A. Genetic Engineering Appraisal Committee (GEAC)
- B. Research Committee on Genetic Manipulation (RCGM)
- C. Council for scientific and Industrial Research (CSIR)

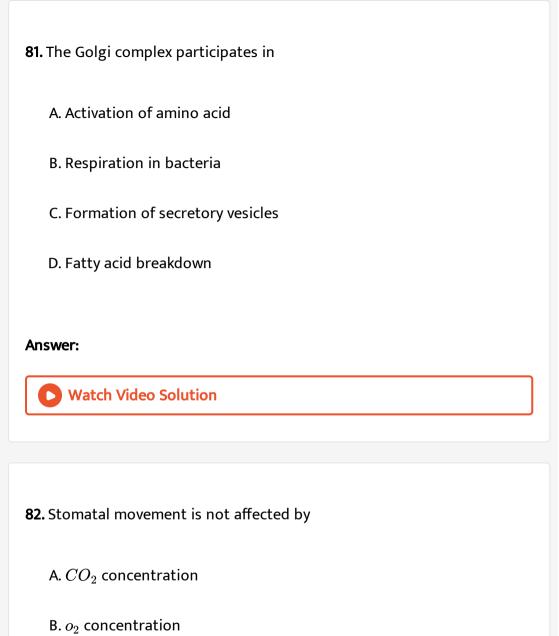
	D. Inc	lian Co	uncil of <i>I</i>	Medical	Research (IC	MR)			
Ans	wer:								
) Wa	atch Vio	deo Solu	tion					
30.	The	stage	during	which	separation	of t	he	paired	homolo

80. The stage during which separation of the paired homologous chromosomes begin is

- A. Zygotene
- B. Diakinesis
- C. Diplotene
- D. Pachytene

Answer:





C. Light

D. Temperature

Answer:



83. The two functional groups characteristic of sugars are

- A. Carbonyl and hydroxyl
- B. Carbonyl and phosphate
- C. Carbonyl and methyl
- D. Hydroxyl and methyl

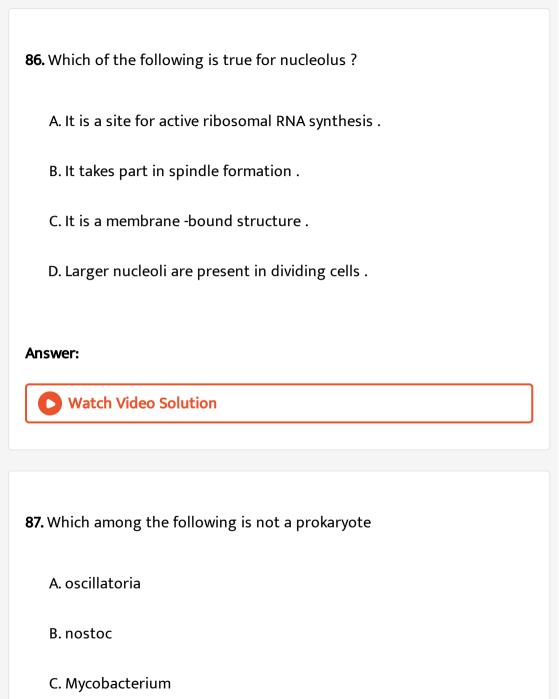
Answer:



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84. Which of the following is not a product of light reaction of phtosynthesis

A. Oxygen
B. NADPH
C. NADH
D. ATP
Answer:
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85. Stomata in grass leaf are
A. Barrel shaped
B. Rectangular
C. Kidney shaped
D. Dumb -bell shaped
Answer:
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D. Saccharomyces

Answer:

