#### Water

Correct Ans. b

15. The part of Cinchona plant found suitable for the treatment of Malaria was:

Seeds Fruits Leaves Bark

Correct Ans. (d)

16. When sporozoites of *Plasmodium* pass from the blood to liver cells, they multiply for:

8 days 10 days 12 days 14 days

Correct Ans. (c)

17. Man can now be saved from fatal diseases by using:

Vaccine	
Bacteria	
Antibiotics	
Plasmodium	ale
Correct Ans. (a)	Notesaid
18. The word malaria has been derived fr Latin Italian	on the completation of two works wights: Page 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Greek Previo	Page

Correct Ans. (b)

19. Which one of the following best describes the scientific method?

Doing experiments in laboratories Collecting all known facts on a subject Developing and testing hypothesis Using sensitive electronic measuring instruments

Correct Ans. (c)

20. Which of the following stages of *Plasmodium* is diploid?

Merozoite Sporozoite Zygote (ookinete) Gametocyte

Correct Ans. (c)

#### Fast transport

Correct Ans. (b)

10. It is a true cell wall in a newly growing cell:

Middle lamella Secondary wall Primary wall Plasma membrane

Correct Ans. (c)

11. It is the first to be formed:

Primary wall Secondary wall Tertiary wall Middle lamella

Correct Ans. (a)

12. It is a site of certain metabolic pathways:

Cell wall	
Plasma membrane	<b>.</b>
Cytoplasm	
A & B	aleicon
Correct Ans. (c)	Notesaio
13. The water percentage of cytosol in t	he cy opla mis
50 60 70 90	he cypple min Notesale.co.uk N page 6 of 96 Page
Correct Ans. (d)	

14. New Ribosomes are assembled in the :

Nucleolus Mitochondria Endoplasmic Reticulum Golgi Apparatus

Correct Ans. (a)

15. Smooth Endoplasmic Reticulum helps to:

Synthesize proteins Detoxify the harmful drugs Prepare food Decompose proteins

Correct Ans. (b)

Correct Ans. C

22. Nucleic acids are formed of units called:

Amino acids Nucleotides Citric acids Isoprenoid units

Correct Ans. B

23. Typically a nucleotide is composed of:

three components four components five components two components

Correct Ans. A

24. As compared to somatic cells the amount of DNA in germ line cells (sperms and ova) is almost:

Equal Double One third Half
Correct Ans. D
25. The function of tRNA is:
One third Half Correct Ans. D 25. The function of tRNA is: To carry genetic information's from DNA to riboconte To synthesize protein Pick up amino acids and transfelttion to riboconte Distribution of transfelttion to riboconte Constitute ribosom states about:
Correct Ans. C
26. In protoplasm dry matter consists about:
90% organic and 10% inorganic compounds 70% organic and 30% inorganic compounds 60% organic and 40% inorganic compounds 50% organic and 50% inorganic compounds
Correct Ans. A
27. Which of the following groups from the nucleotides:
Sugar Nitrogenous Base Vitamin
Sugar Vitamin Phosphoric acid
Sugar Nitrogenous base Phosphoric acid
Phosphoric acid Nitrogenous base vitamin

Correct Ans. C

48. Distance between twist of DNA molecule is:

14 A 24 A 34 A

44 A

Correct Ans. (c)

49. Which of the following is a complete monomeric unit of DNA:

pentose sugar phosphoric acid nucleotide adenine

Correct Ans. (c) 50. The formula of glyceraldehydes is:

 $\begin{array}{c} C_3 \ H_5 \ O_3 \\ C_3 \ H_6 \ O_3 \\ C_3 \ H_4 \ O_3 \\ C_3 \ H_6 \ O_4 \end{array}$ 

Correct Ans. (b)

51. The number of Carbon in oleic acid is:

16 18	co.uk
20	
22	Notesaio
Correct Ans. (b)	w from Notesale.co.uk Page 19 of 96
•	•

52. Vitamin A is a:

protein wax terpenoid carbohydrate

Correct Ans. (c)

53. Which of the following is not true of palmatic acid:

saturated unsaturated unbranched 16 carbons

Correct ans. (b)

54. Which of these makes cellulose nondigestable:

#### Steroid

Correct Ans. (d)

61. The structure of a protein can be denatured by:

the polar bond of water molecule heat the presence of oxygen gas the presence of carbon dioxide gas

Correct Ans. (b)

**CHAPTER 4** 

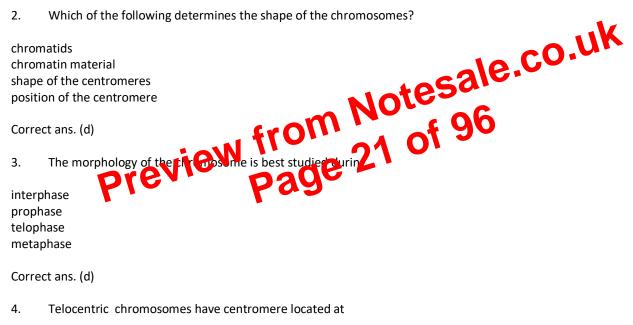
Choose the most appropriate answer:

1. Which of these established that the units of inheritance are located on the chromosome?

Sutton Waldeyer Watson and Crick Strickberger

Correct Ans. (a)

Which of the following determines the shape of the chromosomes? 2.



one end both ends center one side

Correct Ans. (a)

5. Which of these chromosomes have centromere located at one end?

acrocentric Telocentric Metacentric Submetacentric

### 37. Which of the following diseases of plants is caused by bacterial?

Rust Crowngall Smut Powdery mildew

Correct Ans. (b)

38. Which of the following is cultivated in rice fields for the increase of soil fertility?

Anabaena Chlamydomonas Rhizobium Rhizopus

Correct Ans. (a)

39. Unicellular blue-green algae reproduce by:

fragmentation conjugation cell division hormogonia

Correct Ans. (c)

40.	Which of the following is enlarged resting cell with thickened walls, large food reserve and the second sec
trichor	ne
hormo	gonium
ovum	
akinet	e frolling of 90
Correc	Which of the following is enlarged resting cell with thickened walls, large food reserve and poor? UK me gonium e t Ans. (d) Which of the following is not true of Apstoc:
41.	Which of the following is not true of Apstoc:
Autotr	oph

Filamentous Unicellular Heterocyst

Correct Ans. (c)

42. Nutrients are returned to the environment by:

producers decomposers herbivores carnovores

Correct Ans. (b)

Unicellular Filamentous Tubular None of these

Correct Ans. (a)

Sexual reproduction in which small male gamete is motile while the large female gamete is immotile is called: 10.

Isogamy Anisogamy Oogamy Karyogamy

Correct Ans. (d)

Mycorrhiza is association of: 11. **Root-fungus** Stem-fungus Alga-fungus Bacteria-fungus Correct Ans. (a)

12. Mycorrhizal association is:

Parasitic
Symbiotic
Saprophytic
Chlorophytic

Correct Ans. (b)	- uK
13. Sporophyte generation produces:	cale.co.u.
Correct Ans. (b) 13. Sporophyte generation produces: Gametes Zygote Embryo Spores Correct Ans. (d) <b>PIEVIEV for an </b>	of 96
Correct Ans. (d) <b>Preview</b> Page 34	
14. The chromosome number in the gametes of <i>Ulva</i> is:	

Diploid Triploid Teraploid Monoploid

Correct ans. (d)

15. The number of chromosomes in the cells of the Sporophyte plant body of *Ulva* is:

Diploid Triploid Teraploid Monoploid

Correct Ans. (a)

Euglena is an animal because it lacks: 16.

Nucleus

Chloroplast Cell wall Cell membrane

Correct Ans. (c)

17. Mycelium is a term used for:

Mass of spores Mass of sporangia Mass of hyphae Zoospores Correct Ans. (c)

Root-like hyphae of *Rhizopus* are called: 18.

Stolon Sporangiophore Rhizoids Rhizophores

Correct Ans. (c)

19. Pyrenoid is involved in:

conversion of sugar into starch Conversion of starch into sugar Synthesis of protein Photosynthesis

Correct Ans. (a)

20. Stigeoclonium is:

ew from Notesale.co.uk Page 35 of 96 Fresh water unicellular green alga Fresh water multi cellular blue-green alga Fresh water multi cellular green alga Marine multi cellular green alga

Correct Ans.

21. Morels and truffles are:

Poisonous Non-edible Delicious None of these

Correct Ans. (c)

22. In Rhizopus food is stored in the form of:

starch glucose lipid glycogen

Correct Ans. (d)

Amanita is: 23.

Useful

12. Male gametophyte develops from:

Archegonium Antheridium Megaspore Microspore

Correct Ans. (d)

The embryo of Selaginella develops into: 13. Gametophyte Thallophyte Saprophyte Sporophyte

Correct Ans. (d)

14. Production of two types of spores is called:

Microspory Megaspory Homospory Heterospory

Correct Ans. (d)

All seed plants are: 15.

Homosporous iew from Notesale.co.uk Page 47 of 96 Isogamous Heterosporous None of these Correct Ans. (c) 16. Megaspore develops into: Male gametophyte Female gametophyte 2 Male Sporophyt Female Sporophy e

Correct Ans. (b)

Pollen tube is required for the production of: 17.

Embryo Spore Zygote Seed

Correct Ans. (d)

Integumented mega sporangium in which megaspore is retained is called: 18.

Ovule Seed Embryo Pollen tube

Correct Ans. (a)

Catkin Corymb Cyme

Correct Ans. (c)

18. In Euphorbia, the inflorescence is:

Uniparous Biparous Multiparous None of these

Correct Ans. (c)

In wind pollinated flowers the petals are: 19.

Large Coloured Scented Small and dry

Correct Ans. (d)

20. Triticum aestivum belongs to the family:

Solanaceae
Poaceae (Graminae)
Brassicaceae
Leguminosae

Correct Ans. (b)

Female gametophyte of an angiosperm consists of: 21. 3 cells

5 cells

7 cells

9 cells

Correct Ans. (c)

iew from Notesale.co.uk page 55 of 96 22. The male gametophyte of an angiosperm consists of: one cell 2 cells 3 cells 4 cells

Correct Ans. (c)

Endosperm mother cell is: 23.

Monoploid Diploid Triploid Tetraploid

Correct Ans. (b)

24. Their cotyledons absorb the endosperm tissue and are greatly enlarged:

Castor oil Rice

Correct Ans. (d)

52. In the life cycle of angiosperms meiosis occurs

during seed formation before seed formation after spore formation during gametes formation

Correct Ans. (b)

53. Which of the following is not the part of Sporophyte of an angiosperm?

sperm roots leaves stem

Correct Ans. (a)

54. The corn grain is a/an seed embryo spore fruit with a single seed

Correct Ans. (d)

55.	The number of cotyledons present in bean seed is: NoteSale.co.uk from from 60 of 96 ct Ans. (b) Which of the following is the number of cotyledons in corn seed?
one two three four	roview from Note 96
Correc	ct Ans. (b)
56.	Which of the following is the number of cotyledons in corn seed?

one
two
three
four

Correct Ans. (a)

57. The fruits of which of the following are provided with hooks?

Dodonaea Cocklebur Coconut Grapes

Correct Ans. (b)

58. Which of the following generally possesses only primary wood?

Monocotyledons Gymnosperms Dicotyledons All of these

Correct Ans. (a)

Which of the following fruits are parthenocarpic? 59.

apples oranges mangoes bananas

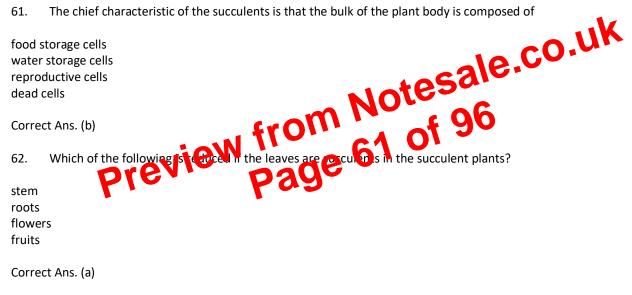
Correct Ans. (d)

60. In which of the following the thalamus forms the edible part of the fruit?

реа apple grapes mango

Correct Ans. (b)

The chief characteristic of the succulents is that the bulk of the plant body is composed of 61.



63. Which of the following is not the characteristic of the succulents?

well developed cuticle low rate of transpiration volume of the shoot is less in proportion to the surface exposed volume of the shoot is great in proportion to the surface exposed

Correct Ans. (d)

64. Which of the following has stored food in the form of sugars?

stem tuber bulb corm rhizome

lower equal none of these

Correct Ans. (b)

38. The wavelengths of visible light are longer than the wavelengths of

infrared ultraviolet microwaves radio waves

Correct Ans. (b)

39. The wavelengths of visible light are shorter than the wavelengths of

infrared
ultraviolet
x-rays
gamma rays

Correct Ans. (a)

from Notesale.co.uk 85 of 96 Which of the following colours of light work best for photosynthesis? 40. Red Yellow Blue Both a and c Correct Ans. (d) the worlds i 41. Which of n cellulose ribulose biphosphate carboxylase insulin diastase Correct Ans. (b)

42. Photophosphorrylation in a chloroplast is mot similar to which of the following mitochondrial reaction?

substrate-level phosphorylation oxidative phosphorylation oxidative decarboxylation hydrolysis

Correct Ans. (b)

43. A photosystem is an assemblage of pigment molecules together ranging from

10 - 100 100 - 200 200 - 400

Ethanol Carbon dioxide

Electron transport chain Krebs cycle Correct Ans. (c) 24. How many ATP molecules are formed during one turn of Kreb's cycle? zero 1 2 3 Correct Ans. (b) 25. Glycolysis is a process found in only eukaryotic cells only prokaryotic cells only most muscle cells virtually all cells Correct Ans. (d) How many molecules of oxygen gas are used during the Glycolysis of one glucose molecule? 26. non 1 6 38 Correct Ans. (a) 27. Phosphoglyceraldehyde is oxidized during Glycolysis. What happens to the hydrogen atoms on t alevemoved during this oxidation? They oxidize NAD They reduce NAD They are transferred to Pyruvic acid They are eliminated in the form of methale Correct Ans. (b) DIEN Bage 920 28. During the first step of Glycolysis, glucose is converted to glucose phosphate. The phosphate group comes from inorganic phosphate phospholipids of the membrane ADP ATP Correct Ans. (d) Which of the following is not true of Glycolysis? 29. substrate level phosphorylation takes place the end products are carbon dioxide and water ATP is formed ATP is used Correct Ans. (b) Which of the following is not formed during alcohol fermentation? 30. acetyl coenzyme A Pyruvic acid

Correct Ans. (a)

31. Which of the following is the end product of anaerobic respiration in animals?

ethyl alcohol lactic acid carbon dioxide water

Correct Ans. (b)

32. In the conversion of Pyruvic acid to acetyl coenzyme A, Pyruvic acid is:

oxidized reduced broken into one carbon fragment isomerized

Correct Ans. (a)

33. At the end of the Krebs cycle, most of the energy removed from the glucose molecule has been transferred to:

NADH<sub>2</sub> and FADH<sub>2</sub> ATP Oxaloacetic acid Citric acid

Correct Ans. (a)

<ul> <li>34. In the electron transport system, the final acceptor electrons is cytochrome c cytochrome a oxygen FAD</li> <li>Correct Ans. (c)</li> <li>35. In aerobic respiration, most of the ATP is tyntnesized durge 3 0 96 96</li> <li>Glycolysis Page Page Page Page Page Page Page Page</li></ul>
Correct Ans. (c)
35. In aerobic respiration, most of the ATP is synthesized during 3
Glycolysis Oxidation of Pyru ic acid The Krebs cycle Electron transport
Correct Ans. (d)
36. How may ATP molecules are formed inside mitochondria from the breakdown of one glucose molecule?
32 ATP 36 ATP 38 ATP 40 ATP
Correct Ans. (b)
37. During electron transport, each molecule of FADH <sub>2</sub> produces a maximum of
2 ATP 3 ATP 6 ATP 8 ATP
Correct Ans. (A)
Regards: SYED ATEEB (M.Sc. M.A. B.Ed. 0301-4870705)

45. The main effect of auxin is to stimulate

division enlargement differentiation turgor

Correct Ans. (b)

46. Cytokinins stimulate cell

division enlargemen wall thickening turgor

Correct Ans. (a)

47. When its terminal bud is moved, plant grows more

tall
bushy
slowly
rapidly

Correct Ans. (b)

Which of the following delays the normal process of aging in leaves? 48. auxins from Notesale.co.uk from 95 of 96 gibberellins insulin Cytokinins Correct Ans. (d) Ethylene is an unusual hormone in that it is 49. a gas solid transported by the xylem transported by the phloem Correct Ans. (a) An import int effect of ethylene is to cluse 50. leaf primordial flower fruit stem Correct Ans. (c) If a short day plant is grown under conditions of long nights and short days and the dark period is interrupted in the middle by 51. a brief exposure to red light, the plant will wilt flower fail to flower die Correct Ans. (c) If a long day plant is grown under conditions of long nights and short days and the dark period is interrupted in the middle by 52. a brief exposure to red light, the plant will die flower fail to flower wilt Correct Ans. (b) Which of these is not true of fermentation (anaerobic respiration)? 53. net gain of only 2 ATP