

NCERT DEEP LINE

TEST-01

DURATION:90MINUTES

Syllabus

Part -01

Botany: The Living world; Biological classification; Cell: The unit of life &Cell Cycle and Cell Division

General Instructions

- 1. Immediately fill in the particulars on this page of the test booklet.
- 2. The test is of 90 min. duration.
- 3. The test booklet consists of 200 questions. The maximum marks are 800.
- 4. There are One Section in the Question Paper, Section I, (Botany) and having 200 Questions and All questions are compulsory
- 5. There is only one correct response for each question.
- 6. Each correct answer will give 4 marks while 1 Mark will be deducted for a wrong MCQ response.
- 7. No student is allowed to carry any textual material, printed or written, bits of papers, pager, mobile phone, any electronic device, etc. inside the examination room/hall.
- 8. On completion of the test, the candidate must hand over the Answer Sheet to the Invigilator on duty in the Room/Hall. However, the candidates are allowed to take away this Test Booklet with them.

OMR - Instructions

- 1. Use blue/black dark ballpoint pens.
- Darken the bubbles completely. Don't put a tick mark or a cross mark where it is specified that you fill the bubbles completely. Half-filled or over-filled bubbles will not be read by the software.
- 3. Never use pencils to mark your answers.
- 4. Never use whiteners to rectify filling errors as they may disrupt the scanning and evaluation process.
- 5. Writing on the OMR Sheet is permitted on the specified area only and even small marks other than the specified area may create problems during the evaluation.
- 6. Multiple markings will be treated as invalid responses.
- 7. Do not fold or make any stray mark on the Answer Sheet (OMR).

Student Details

Name of the Student (In CAPITALS)						
Roll Number:						
OMR Bar Code Number:						
Candidate's Signature	Invigilator's Signature					

Botany (The Living world; Biological classification; Cell: The unit of life &Cell Cycle and Cell Division)

- 1 Total number of known species present on earth is-
 - (a) more than 1.7-1.8 million
 - (b) 1.2 1.3 million
 - (c) 1.9- 2.0 million
- (d) 1.7 1.8 million
- 2. Scientific term for category is -
 - (a) taxon
- (b) sub species
- (c) herbarium
- (d) Phylum
- 3. Select the mismatched pair.
 - (a) Panthera Mammalia
 - (b) Musca Muscidae
 - (c) Triticum Poales
 - (d) Solanum Anacardiaceae
- 4. Taxonomy is basically
 - (a) Process of Identification
 - (b) process of Nomenclature
 - (c) Process of Classification
 - (d) Process of finding relationship among taxon
- 5. Bionomial nomenclature was given scientist also have contribution in
 - (a) Natural system of Classification
 - (b) Two kingdom classification of plants
 - (c) Artificial system of classification of flowering plants
 - (d) both b and c
- 6. In the classification, the number of categories for all organism is seven and this categories are part of
 - (a) Taxon
- (b) Taxonomic hiearchy
- (c) Taxonomic category
- (d) all
- 7. The taxonomic category with fundamental similarities in organism is
 - (a) Genus
- (b) Species
- (c) Sub-species
- (d) Variety
- 8. The word ending with -ales indicates
 - (a) Taxon in Animal classification
 - (b) Taxon in plant Classificiaiton
 - (c) Lowest taxon in animal classification
 - (d) none

- 9. The word indica in Mangifera indica indicates
 - (a) Species
- (b) Family
- (c) Order
- (d) Speciific epithet
- 10. The correct sequence of taxonomic categories in classification of Lion
 - (a) panthera- Felidae -felidaer--carnivora-Mammalia-primata
 - (b) Animalia-Chordata-mammalia-Carnivora-Felidae -panthera
 - (c) Animalia-Chordata-mammalia-Herbiivora-Felidae -panthera
 - (d) Division-order-class-tribe-family-genusspecies
- 11. Systematics is the study of
 - (a) Diversity amongst groups of organisms
 - (b) Grouping of organisms
 - (c) Identification and grouping of organisms
 - (d) Taxonomy and phylogenetic relationship
- 12. Plants name are Written in italics because
 - (a) To show greek origin
 - (b) to show latin origin
 - (c) to show it is scientific name
 - (d) to show it is biological name
- 13. Number of taxonomic categories common in cat and lion is
 - (a) three
- (b) four
- (c) Five
- (d) Six
- 14. Which of the following taxonomic categories contains maximum number of species
 - (a) Angiospermae
- (b) Monocotyledonae
- (c) Poales
- (d) Sapindales
- 15. Which one of the following is not a part of taxonomic hiearchy of classification of datura
 - (a) Sapindales
- (b) Polymoniales
- (c) Dicotyledonae
- (d) Angiospermae
- 16. Which one of the following is a category not taxon?
 - (a) Division
- (b) Diptera
- (c) Solanum
- (d) Poaceae

- 17. Human and Cat ,number of taxonomic categories common is
 - (a) Two
- (b) Three
- (c) Four
- (d) Five
- 18. Select the mismatched pair.
 - (a) Panthera Canis
 - (b) Musca Muscidae
 - (c) Triticum Poales
 - (d) Solanum Sapindales
- 19. Which of the following is the highest rank in classification of wheat?
 - (a) Poaceae
- (b) Polymoniales
- (c) Dicotyledonae
- (d) Angiospermae
- 20 Consider the following statement-
 - (A) Solanum and petunia have same family
 - (B) mango and wheat have same Class

How many are correct -

- (a) Only A
- (b) only B
- (c) both A and B
- (d) both wrong
- 21. Few examples are given-

Solanum, petunia, datura, mango, wheat and maize

How many have common Class dicotyledonae

- (a) three
- (b) four
- (c) five
- (d) two
- 22. Few statements are given,
 - (1) Sapindales include solanaceae and convulvulaceae
 - (2) Primata that includes animals like cat, dog and tiger
 - (3) Diptera belong to class Insecta

How many are correct-

- (a) one
- (b) two
- (c) three
- (d) none
- 23 Few examples lion, dog, tiger, cow, human, monkey

How many have common Class

- (a) Four
- (b) Five
- (c) Three
- (d) Six

- 24. Consider the following match and mark the wrongly match-
 - (a) Name of author- abbreviated form
 - (b) handwritten local name- underlined
 - (c) scientific name- latin language
 - (d) Plant taxonomic name- follow ICBN
- 25. Match column I with column II and select the correct option from the codes given below.

Column I		Column II	
A.	Systema	(i)	Diptera
	naturae		
B.	Panthera	(ii)	Linnaeus
C.	Convulvulaceae	(iii)	lion
D.	Housefly	(iv)	Polymoniales

- (a) A-(ii), B-(iii), C-(i), D-(iv)
- (b) A-(ii), B-(iii), C-(iv), D-(i)
- (c) A-(iii), B-(ii), C-(iv), D-(i)
- (d) A-(iii), B-(ii), C-(i), D-(iv)
- 26. Consider the following statement-
 - (1) ICZN carries agreed principle and criteria for naming of plants
 - (2) Solanum belong to order sapindales

How many are correct -

- (a) only1
- (b) only2
- (c) both 1 and 2
- (d) both wrong
- 27. Few statements are given,
 - (1) suffix for family in animals is idae
 - (2) suffix for order in plants is ales
 - (3) suffix for Class in Plant kingdom is mycetes How many are correct-
 - (a) one
- (b) two
- (c) three
- (d) none
- 28. Consider the following statement-
 - (1) Biological name and scientific name are same
 - (2) Kingdom and division is based on aggregation of character

How many are correct –

- (a) Only 1
- (b) only 2
- (c) both 1 and 2
- (d) both wrong

- 29. Mark the pair with most similarity in all
 - (a) Tiger and Felis
 - (b) solanum and mango
 - (c) Felis and canis
 - (d) potato and brinjal
- 30. Mark the odd one with respect to level in taxonomic hiearchy -
 - (a) Felis
- (b) Canis
- (c) Mango
- (d) Panthera
- 31. Which of the following is not present on same Rank?
 - (a) Chlorophyceae
 - (b) Bryopsida
 - (c) Monocotyledonae
 - (d) Animalia
- 32. Which is common between Solanum and petunia-
 - (1) family
- (2) genus
- (3) Species
- (4) class

Mark the correct option-

- (a) all four
- (b) only 2 and 3
- (c) 1,2 and 3
- (d)1 and 4
- 33. Which show maximum similarity in characters-
 - (a) two species of one genus
 - (b) two organsim of same kingdom
 - (c) two genera belonging to different family
 - (d) two animals of same Species
- 34. Mark the odd one from given option in respect of taxonomic level -
 - (a) Musca
- (b) Poales
- (c) Mangifera
- (d) Triticum
- 35. Which of the following not related to Canis taxonomic hiearchy
 - (a) Felidae
 - (b) Carnivora
 - (c) Chordata
 - (d) Mammalia
- 36 Which of the following name is correctly written?
 - (a) APIS INDICA
 - (b) Mangifera Indica linn
 - (c) Ficus
 - (d) Musca domestica

37. Match column I with column II and select the correct option from the codes given below.

	Column I	Column II		
A.	Scientific	(i)	Ernst mayer	
	term for			
	cateogry			
B.	Binomial	(ii)	Linnaeus	
	nomenclature			
C.	The Darwin	(iii)	Taxa	
	of the 20 th			
	century			
D.	'mammals'	(iv)	represent taxa at	
	and 'dogs'	different levels		

- (a) A-(ii), B-(iii), C-(i), D-(iv)
- (b) A-(ii), B-(iii), C-(iv), D-(i)
- (c) A-(iii), B-(ii), C-(iv), D-(i)
- (d) A-(iii), B-(ii), C-(i), D-(iv)
- 38. Match column I with column II and select the correct option from the codes given below.

	Column I	Column II	
A.	Anacardiaceae	(i)	Wheat
B.	Polymoniales	(ii)	Mango
C.	Primata	(iii)	Datura
D.	Poaceae	(iv)	Monkey

- (a) A-(ii), B-(iii), C-(i), D-(iv)
- (b) A-(ii), B-(iii), C-(iv), D-(i)
- (c) A-(iii), B-(ii), C-(iv), D-(i)
- (d) A-(iii), B-(ii), C-(i), D-(iv)
- 39. Match column I with column II and select the correct option from the codes given below.

	Column I		Column II	
A.	Canis	(i) Mammalia		
B.	Mosquito	(ii)	Insecta	
C.	Datura	(iii)	Monocotyledonae	
D.	Canary	(iv)	Dicotyledonae	
	grass			

- (a) A-(ii), B-(iii), C-(i), D-(iv)
- (b) A-(ii), B-(iii), C-(iv), D-(i)
- (c) A-(i), B-(ii), C-(iv), D-(iii)
- (d) A-(iii), B-(ii), C-(i), D-(iv)

40. Match column I with column II and select the correct option from the codes given below.

	Column I		Column II
A.	Datura and	(i)	Solanaceae
	Solanum		
B.	Felis and	(ii)	Carnivora
	Canis		
C.	Felis and	(iii)	Felidae
	Panthera		
D.	Rice and	(iv)	Poaceae
	maize		

- (a) A-(i), B-(ii), C-(iii), D-(iv)
- (b) A-(i), B-(ii), C-(iv), D-(iii)
- (c) A-(iii), B-(ii), C-(iv), D-(i)
- (d) A-(iii), B-(ii), C-(i), D-(iv)
- 41. Which of the following can survive without oxygen-
 - (a) Mycoplasma
 - (b) heterocyst
 - (c) methanogens
 - (d) all
- 42. Protista mainly have -
 - (a) Chamydomonas, chlorella, Marchantia, Agaricus
 - (b) Lactobaccilus, chlamydomonas ,chlorella, Spirogyra
 - (c) Chlamydomonas, Chlorella, Euglena and Amoeba
 - (d) Paramoecium, Amoeba, Fucus, Hydra
- 43. Select the options in which all members show Cell wall is presence
 - (a) PPLO, Chalymodomonas and Agaricus
 - (b) Yeast, Nostoc, Diatom, Psilotum and Methanogen
 - (c) Amoeba, Plasmodium, Gonylaux and Diatom
 - (d) Euglena, Diatom, Slime mould and Nostoc
- 44. Heterocyst present in And also have feature
 - (a) Nostoc, chl b
 - (b) Anabena, Sap vacuole
 - (c) all Cyanobacteria and Chrometophore
 - (d) Some cyanobacteria and Chromatophore, Gas vacuole

- 45. Consider the following statement mark the correct—
 - (a) Phycomycetes are asepetate and Conidia present
 - (b) Ascomycetes are septate ,conidia present and sexual spore is basidiospore
 - (c) Basidiomycetes are septate, asexual sproe and sex organ absent and sexual spore exogenous
 - (d) Deuteromycetes are septate, conidia present and ascospore
- 46. Consider the following statement mark the correct—
 - (a) Sac fungi- Aspergillus, Claviceps, Alternaira and Yeast
 - (b) Basidiomycetes- Shelf fungi, agaricus, Ustilago and puccinia
 - (c) Phycomycetes- Albugo , rhizopus, Alternaria and Mucor
 - (d) Deuteromycetes- Alternaria, Aspergillus, Trichoderma and Colletotrichum
- 47. Match column I with column II and select the correct option from the codes given below.

	Column I	Column II		
A.	Conidia	(i) Sexual spore		
		aspergillus		
B.	Ascospore	(ii)	Neurospora	
C.	Basidiospore	(iii)	Mucor	
D.	Zygospore	(iv)	Agaricus	

- (a) A-(ii), B-(iii), C-(i), D-(iv)
- (b) A-(ii), B-(iii), C-(iv), D-(i)
- (c) A-(ii), B-(i), C-(iv), D-(iii)
- (d) A-(iii), B-(ii), C-(i), D-(iv)
- 48. Most complex metabolic diversity present in
 - (a) Monera
 - (b) Methanogen
 - (c) Saprophytic bacteria
 - (d) Mycoplasma
- 49. Consider the following statement mark the correct—
 - (a) Diatom- chief producer, syrup making, Polishing, silica in wall and pellicle
 - (b) Euglenoids- Chl a and chl b, Pellicle, apical equal flagella and marine

- (c) Dinoflagellates- Red tide, toxins, marine, stiff cellulose plates
- (d) Slime mould- main stage plasmodium, cell wall absent, Spore with cell wall, spore disperse by water
- 50. Match column I with column II and select the correct option from the codes given below.

Column I		Column II		
A.	Amoeba	(i) Sleeping sickness		
B.	Sporozoans	(ii) Spore stage in lif		
			cycle	
C.	Paramoecium	(iii) Marine from silica		
D.	Trypanosoma	(iv) Gulletes present		

- (a) A-(ii), B-(iii), C-(i), D-(iv)
- (b) A-(ii), B-(iii), C-(iv), D-(i)
- (c) A-(iii), B-(ii), C-(iv), D-(i)
- (d) A-(iii), B-(ii), C-(i), D-(iv)
- 51. Consider the following statement mark the correct—
 - (a) Virus- intracellular parasite, obligate parasite, DNA and RNA both present, nucleoprotein
 - (b) Viroids- only nucleic acid, PSTD , T.O diener and single strand RNA
 - (c) Prions- Only protein, size same to virus , mad cow disease and have genetic material
 - (d) Lichens- fungi give mineral and shelter, algae give food, fungi genus glomus
- 52. Consider the following statement mark the correct—
 - (a) Mycoplasma- smallest,70 s ribosome, disease in plant and animal, can not survive without oxygen
 - (b) Trichoderma- conidia, septate, no sexual spore, only perfect stage present
 - (c) TMV- plant virus, single strand RNA, pass through bacterial filter, first virus
 - (d) Nostoc- chl a, chromatophore, biofertilizer, gas vacuole, 80 s ribosome
- 53. Match column I with column II and select the correct option from the codes given below.

	Column I	Column II		
A.	Ascospore	(i)	Albugo	
B.	Basidiospore	(ii)	Clavicpes	and

			Neurospore
C.	Zoospore	(iii)	Agaricus and ustilago
D.	Sexual	(iv)	Alternaria and
	reporduction		trichoderma
	absent		

- (a) A-(ii), B-(iii), C-(i), D-(iv)
- (b) A-(ii), B-(iii), C-(iv), D-(i)
- (c) A-(iii), B-(ii), C-(iv), D-(i)
- (d) A-(iii), B-(ii), C-(i), D-(iv)
- 54. Consider the following statement mark the correct
 - (a) Morels, truffles, laminaria and agaricus are edible
 - (b) PPLO, lactobaccilus, albugo, Ustilago and puccinia are parasitic
 - (c) Methanogen, PPLO ,nostoc , chlamydomonas can survive without oxygen
 - (d) Virus, viroids, prions, pellicle, aleurone layer all have protein
- 55. Consider the following statement
 - (1) In Mucor hyphae is Aseptate
 - (2) Dikaryon stage is not visible in rhizopus and mucor

How many are correct-

- (a) only 1
- (b) both 1 and 2
- (c) only 2
- (d) both wrong
- 56. True sexual reproduction is present in-
 - (a) Nostoc and Mycoplasma
 - (b) claviceps and TMV
 - (c) Albugo and Agaricus
 - (d) E.coli and diatom
- 57. Consider the following statement-
 - (1) double strand DNA is genetic material of TMV
 - (2) In most plant virus, genetic material is single strand RNA

How many are correct-

- (a) only 1
- (b) both 1 and 2
- (c) only 2
- (d) both wrong
- 58. Similarity between TMV and Viroids -
 - (a) Absence of protein
 - (b) Parasitic in plant and animal
 - (c) have single strand RNA
 - (d) both are cellular

Asexual spore (a) Ascomycetes (b) basidiomycetes (c) phycomycetes (d) Slime moulds (a) Viroids – single strand RNA (b) Anabena – Double strand DNA (c) Most Bacteriophage -Double strand DNA (d) TMV – Single strand DNA (e) TMV – Single strand DNA (f) TMV – Single strand DNA (g) Which of the following is not location of methanogen – (a) Rumen of cattle (b) Biogas plant (c) Aeration tank of sewage treatment plant (d) Anaerobic sludge digestor of Sewage treatment plant (d) Anaerobic sludge digestor of Sewage treatment plant (e) Most Bacteriophage -Double strand DNA (f) TMV – Single strand DNA (g) TMV – Single strand DNA (h) TMV – Single strand DNA	59.	Diploid zygote not for	orm in reproduction cycle of –		(a) a-(ii), b-(iv), c-(iii), d-(i)
60. Deuteromycetes are most similar to in hyphae and Asexual spore (a) Ascomycetes (b) basidiomycetes (c) phycomycetes (d) Slime moulds 61. Mark the incorrectly matched for Genetic Material (a) Viroids – single strand RNA (b) Anabena – Double strand DNA (c) Most Bacteriophage – Double strand DNA (d) TIMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) Organic inside cell (e) Inorganic inside cell (f) Dragnic outside cell (g) Organic outside cell (g) Martsotle (g) Mintaker (g) Whittaker (g) Bentham and Hooker 64. Two kingdom classification is based on the presence of in		(a) Albugo	(b) E.coli		(b) a-(ii), b-(iv), c-(i), d-(iii)
60. Deuteromycetes are most similar to in hyphae and Asexual spore (a) Ascomycetes (b) basidiomycetes (c) phycomycetes (d) Slime moulds (d) Which of the following is not location of methanogen — (a) Rumen of cattle (b) Biogas plant (c) Aeration tank of sewage treatment plant (d) Anaerobic sludge digestor of Sewage treatment plant (e) Morst Bacteriophage -Double strand DNA (d) TMV – Single strand DNA (e) Demonstrate cell (f) Inorganic inside cell (g) Inorganic inside cell (g) Inorganic compound outside cell (g) Inorganic inside cell (g) Inorganic outside cell (g) Antistotle (g) Whittaker (g) Whittaker (g) Whittaker (g) Bilica deposition occur in		(c) Pila	(d) Mangifera		(c) a-(iii), b-(iv), c-(ii), d-(i)
Asexual spore (a) Ascomycetes (b) basidiomycetes (c) phycomycetes (d) Slime moulds 61. Mark the incorrectly matched for Genetic Material (a) Viroids – single strand RNA (b) Anabena – Double strand DNA (c) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (d) TMV – Single strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) Mnabera – Double strand DNA (e) Most Bacteriophage – Double strand DNA (d) Mnabera – Double strand DNA (d) Mnabera – Gamerobic sludge digestor of Sewage treatment plant (d) Anaerobic sludge digestor of Sewage treatment plant (e) Autorophic (d) pigment like higher plants (e) Dinoflagellates (f) Dinoflagellates (h) Diatoms and Euglenoids (c) Slime mould and cell wall present in – (a) Diatom and Dinoflagellates (h) Diatoms and Euglenoids (c) Slime mould and Dinoflagellates (h) Light present (g) Light present (g) Light present and prey					(d) a-(iii), b-(iii), c-(iv), d-(i)
(a) Ascomycetes (b) basidiomycetes (c) phycomycetes (d) Sline moulds 61. Mark the incorrectly matched for Genetic Material (a) Viroids – single strand RNA (b) Anabena – Double strand DNA (c) Most Bacteriophage -Double strand DNA (d) TMV – Single strand DNA (d) TMV – Single strand DNA 62. Chemoautotraphs bacteria show oxidation of – (a) organic inside cell (c) lnorganic compound outside cell (d) Organic outside cell (d) Organic outside cell (d) Organic outside cell (e) binaneus (c) Whittaker (d) Bentham and Hooker (e) Whittaker (d) Bentham and Hooker (e) Cell membrane, plantae (b) Cell wall, plantae (c) Cell membrane, Animalia (d) Cell wall, Animalia (d) Cell wall, Animalia (d) Cell wall, Plantae (e) Cell membrane are require in organism to be placed in Protista in five kingdom classification (a) all three (b) I and II (c) Only II (d) II and III 66. Match the column I with column II and select the correct option for five kingdom classification (Column I (ii) Protista (b) Nostoc (iii) Fungi (c) Chitin cell wall (iii) Protista (b) Virus	60.	Deuteromycetes are most similar to in hyphae and			
(c) phycomycetes (d) Slime moulds 61. Mark the incorrectly matched for Genetic Material (a) Viroids – single strand RNA (b) Anabena – Double strand DNA (c) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Most Bacteriophage – Double strand DNA (d) TMV – Single strand DNA (e) Mostoce (ii) Fungi (e) Chitin cell wall (iii) Protista (a) Rumen of cattle (b) Biogas plant (c) Aeration tank of sewage treatment plant (d) Anaerobic sludge digestor of Sewage treatment plant (d) Anierobic sludge digestor of Sewage treatment plant (d) Aplant		Asexual spore		67.	Which of the following is not location of
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(a) Unicellular Eukaryotes (i) Animalia (b) Nostoc (ii) Fungi (c) Chitin cell wall (iii) Protista (b) Protista (c) Fungi (d) Virus		correct option for five kingdom classification			defined.
(b) Nostoc (ii) Fungi (c) Fungi (d) Virus		Column I	Column II		(a) Animalia
(c) Chitin cell wall (iii) Protista (d) Virus		(a) Unicellular Euka	aryotes (i) Animalia		(b) Protista
		(b) Nostoc	(ii) Fungi		(c) Fungi
(d) Organ system (iv) Monera		(c) Chitin cell wall	(iii) Protista		(d) Virus
		(d) Organ system	(iv) Monera		

74. Sexual reproduction involves following spores – 83. Flagellated structure present in – (a) Zoospore and conidia (a) euglenoids and albugo (b) diatom and mycoplasma (b) Ascospore and zoospore (c) Basidiospore and Oospore (c) E.coli and nostoc (d) Conidia and Basidiospore (d) ustilago and puccinia 84. 75. Conidia develop on ...A.... by the process of Mark the incorrect statement-.....B..... (a) prokaryotic cell divide faster than Eukaryotic cell (a) A- Ascocarp B- Mitosis (b) prokaryotes exibit a wide variety of shapes and (b) A- Conidiophore, B-Meiosis functions (c) A- condiophore, B- Mitosis (c) Plasmid is small DNA other than genomic DNA (d) A- Basidiocarp, B- Mitosis (d) Cell envelop consist of a loosely bound three layered structure Exogenously produce sexual spore is feature of 76. (a) Puccinia (b) Aspergillus 85. Which of the following is incorrectly matched-(c) Albugo (d) Alternaria (a) loose and tough – Capsule (b) Mesosome – help in DNA replication 77. (c) Flagella – number and arrangement variable Which of the following lack zygote in their life (d) Ribosome – 15nm and 20nm cycle-(a) alternaria and colletotrichum (b) mycoplasma and nostoc 86. Which is common about ribosome and inclusion (c) lactobaccilus and trichoderma bodies-(d) all (a) presence in eukaryotic cell (b) without membrane 78. 'Contagum vivum fluidum' is used for virus by – (c) for storage (b) Ivanowsky (d) site for protein synthesis (a) Beijerinek (c) Stanley (d) Diener 87. Mark the incorrectly matched-79. (a) Extension of plasma membrane - Mesosome and Dikaryon is result of – (b) meiosis chromatophore (a) Karyogamy (c) plasmogamy (d) all (b) Motility - Pill and fimbriae (c) Plasma membrane – similar in prokaryotes and Which of the following absent in claviceps-80. Eukaryotes (d) Cell wall – maintain shape and prevent from (a) Dikaryon and zygote (b) sex organ and conidia bursting (c) aseptate hypae and zoospore (d) both b and c 88. Cell envelop have all except – (a) slime layer 81. Which is common in ascomycetes, basidiomycetes (b) capsule and deutereomycetes-(c) cell wall (a) hyphae structure (b) dikaryon (d) flagella (c) fragmentation (d) Both a & c Which of the following is surface structure-89. 82. (B) fimbriae Which is present in agaricus-(A) pilli (a) ascospore (C) Flagella (D) mesosomes (b) conidia Mark the correct (c) sexual reproduction (b) A, B and C (a) A and B (d) sex organs (c) all four (d) B and C

	(A) cyanobacteria(B) purple sulfur bacteria(C) Green purple bacteria(D) Archaebacteria			(a) respiration, secretion process, have enzyme and provide motility(b) cell wall formation, storage, secretion process and DNA replication		
	Mark the correct (a) A and B	(b) A, B and C		(c) Secretion, DNA replication, enzyme presence cell wall formation		
	(c) all four	(d) B and C			, DNA replication , secretion and	
91.		g is similarity of prokaryotes				
	with Eukaryotes-		97.	Mark the correct stat		
	(A) cell membrane	(B) flagella		(A) all bacteria have		
	(C) role of ribosome	(D) plasmid		(B) all bacteria have		
	Mark the correct			(C) all bacteria have		
	(a) A and B	(b) A,B and C		(D) all bacteria have	cell membrane	
	(c) all four	(d) A and C		Mark the correct		
				(a) A and B		
92.	Mark the incorrect-			(b) B and C		
		m in basidiomycetes are		(c) C and D		
	always product			(d) A and C		
	(b) Two conidia form genetically same	n on same mycelium are	98.	Which of the following is feature of cyanobacteria-		
	(c) Two basidiospore	develop on same basidium		(a) presence of Chla		
	are genetically s	ame		(b) flagella	6 1	
	(d) Plasmogamy is property hyphae in agaric	rocess can occur in somatic		(c) presence only in (d) only unicellular f sheath	Form surrounded by gelatinous	
93.	Asexual fruting hod	y absent in and sexual	00	M 1 d		
<i>) 3</i> .	-	t in respectively	99.	Mark the correct stat		
	(a) Claviceps and Ne			(A) bacteria are sole members of monera(B) bacteria have simple structure and complex		
	(b) Puccinia and Tric	-			nple structure and complex	
	· /			behaviour	undra mastra arouth sains for all funds	
	(c) Colletotrichum ar	•			rokaryotes synthesise food from	
	(d) Rhizopus and Tri	cnoderma		inorganic subst	y of bacteria are autotrophic	
				Mark the correct	y of bacteria are autotropine	
94.	Dikaryotic hyphae fo	orm due to -		(a) A, B and C	(b) B, C and D	
	(a) Mitosis			(c) A, B and D	(d) all four	
	(b) Meiosis			(c) 11, B and B	(0) 411 1041	
	(c) Plasmogamy		100.	Which of the foll	owing is role of hetertrophic	
	(d) Karyogamy		100.	bacteria-	is the of necessary	
				(A) covert nitrite into	o nitrate	
95.	Ascospore on mitos	sis develop, which		(B) fix nitrogen in le		
	later develop l	oy mitosis		(C) production of an	_	
	(a) Mycelium and As	scocarp		(D) cause disease		
	(b) Mycelium and Conidiophore			Mark the correct		
	(c) Conidia and Asco	-		(a) A and B	(b) A, B and C	
	(d) Hyphae and Basic	•		(c) all four	(d) B, C and D	
	(a) 11) pine una Dasi					
			ļ		9	

96.

Which of the following is role of mesosome-

Which of the following have gas vacuole-

90.

101.	Mark the incorrect statement-	110.	Chromosome come	at equator of spindle in
	(a) events of cell cycle are under genetic control		phase of mitosis -	
	(b) Cell growth in terms of cytoplasmic increase is		(a) Telophase	(b) Prophase
	countinuous process		(c) Metaphase	(d) Anaphase
	(c) interphase is 95 percent of total cell cycle		•	•
	(d) G1 phase is interval between DNA replication	111.	Spindle fibre attac	h with kinetochore in-
	and mitosis		(a) prophase	(b) Metaphase
			(c) Telophase	(d) Anaphase
102.	Mark the correctly matched-		•	•
	(a) S-phase – centriole duplication		12. Match the following events that occur in their	
	(b) G2 phase – DNA replication		respective phases of cell cycle and select the correct	
	(c) M-phase - protein synthesis		option:	
	(d) G1 phase – histone synthesis		1. G1 phase	(i) Cell grows and organelle
			1	duplication
103.	Nuclear membrane may be disappear in which of		2. S phase	(ii) Centriole duplication
	the phase-		3. G2 phase	(iii) cell prepare for division
	(a) M-phase (b) S- phase		4. Metaphase in	(iv) kinetochore appear
	(c) both 1 and 2 (d) G2-phase		M-phase	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(a) 1-(iii), 2-(iv), 3-	(i), 4-(ii)
104.	In which of the following phase one centromere		(b) 1-(iv), 2(i), 3-ii)	
	have two chromatid-		(c) 1-(i), 2(ii), 3-iii), 4-(iv)	
	(a) G2 phase (a) G1 phase		(d) 1-(i), 2-(ii), 3(iv	
	(c) s-phase (d) M-phase			
		113.	Number of spindle	e fibre attach on chromosome a
105.	Which of the following not occur after M-phase –		metaphase of mito	
	(a) Nucleus/ cytoplasm ratio increase		(a) one	(b) two
	(b) number of chromosome become half		(c) three	(d) four
	(c) amount of DNA become half			
	(d) nuclear membrane reappear	114.	Number of spindle	e fibre attach on chromosome a
	••		metaphase I of me	
106.	Mitotic division occur in all except-		(a) one	(b) two
	(a) haploid plant cell (b) diploid plant cell		(c) three	(d) four
	(c) Diploid animal cell (d) haploid animal cell			
	•	115.	In asymmetric spi	ndle which lead to unequal cel
107.	G0 phase cell show all feature except-		formation all are c	orrect except-
	(a) metabolically active		(a) equator of spindle not lie at equator of cell	
	(b) show proliferation		(b) genetic materia	al divide equally
	(c) living cell		(c) cytoplasm divi	sion is unequal
	(d) Quiescent cell		(d) both cytoplasm unequally	n and genetic material divide
108.	Centriole starts to move at opposite pole in-			
	(a) prophase (b) Metaphase	116.	In anaphase splitti	ng of centromere result in –
	(c) Telophase (d) Anaphase		(a) splitting of chro	omosome arm
			(b) splitting result	in formation of daughter
109.	Two chromatids of chromosome visible in		chromosome	
	phase of M-phase-		(c) spindle fibre de	egenerate
	(a) prophase (b) Metaphase		(d) unequal division	on of genetic material
	(c) Telophase (d) Anaphase			

- 117. In meiosis variation occur in (a) prophase II (b) Anaphase II (c) pachytene (d) both b and c 118. Terminilization of chaismata occur in – (a) diakinesis (b) diplotene (d) zygotene (c) pachytene 119. Which type of chromosome appear in anaphase as inverted j shape-(b) submetacentric (a) metacentric (c) telocentric (d) Acrocentric 120. Which of the following phase have checkpoints – (a) M to G1 transition (b) G1 to S phase transition (c) G2 to M transition (d) both b and c 121. Mark the correct-130 (a) Meiosis occur in both haploid and diploid (b) Meiosis II occur only in diploid (c) Meiosis I occur only in diploid (d) Mitosis can not occur in haploid cell of plants 122. Which of the following not occur in metaphase I (a) Double metaphasic plate visible (b) One Homologus Chromosome pair have two chromosomal fibre (c) Each Chromosome have two chromosomal fibre (d) Homologus chromosome are still together 123. In a maize plant number of chromosome are (2n=20) than number of bivalent and tetrad are in zygotene are – (a) 20 and 20 (b) 20 and 10 (d) 10 and 20 (c) 10 and 10 124. Metacentric chromosome can show inverted V shape visible in-(b) Anaphase I (a) Metaphase (d) both b and c (c) Anaphase 125. Which is correct about plant cell-(a) Anastral spindle formation (b) Cell plate method of cytokinesis (c) Nuclear division takes place. (c) Mitosis in haploid cell (d) Centriole duplication (d) All of the above
 - 126. Which of the following occur in S-phase-(a) Histone synthesis (b) centriole duplication (b) DNA replication (d) all of the above 127. Protein synthesis occur in all except-(a) G1 phase (b) G2 phase (c) M-phase (d) S-phase 128. During cytokinesis in plants which is last event among the following -(a) Cell plate formation (b) primary cell wall formation (c) plasma membrane formation (d) phragmoplast formation 129. Segregation of homologus chromosome occur in-(a) Anaphase I (b) Anaphase II (c) Anaphase (d) both a and c Segregation of sister chromatid occur in -(a) Anaphase I (b) Anaphase II (c) Anaphase (d) both b and c Segregation of sister chromatid which are nonidentical occur in (a) Anaphase I (b) Anaphase II (c) Anaphase (d) both a and c 132. Match the following with respect to meiosis: Column-I Column-II 1. Zygotene (i) Meiosis arrest in mammalian oocyte 2. Pachytene (ii) Dissolution of synaptonemal complex 3. Diplotene (iii) Recombination nodule 4. Diakinesis (iv) Synaptonemal complex Select the correct option from the following: (a) 1-(iv), 2-(iii), 3-(ii), 4-(i) (b) 1-(i), 2-(ii), 3-(iv), 4-(iii) (c) 1-(iV), 2-(iii), 3-(i), 4-(ii) (d) 1-(iii), 2(iv), 3-(i), 4-(ii) 133. Identify the correct statement with regard to G1 phase (Gap1) of interphase. (a) Amount of DNA get double (b) Cell show growth

- 134. Chromosome in Homologus pair start to move away occurs:
 - (a) Zygotene
- (b) Diplotene
- (b) Leptotene
- (d) Pachytene
- 135. If amount of DNA in tapetum in G0 phase is 0.30 pgm, than amount of DNA in vegetative cell of pollen of same plant is -
 - (a) 0.15pgm
- (b) 0.075pgm
- (c) 0.60 pgm
- (d) 0.30pgm
- 136. Mr. Robin, identify the following features while studying cell division in anther cells.
 - X- Movement of chromosomes towards the pole
 - Y- Reduction in the number of chromosomes.
 - Z- Division of centromere does not occur.
 - (a) Anaphase
- (b) Anaphase I
- (c) Anaphase II
- (d) All of the above
- 137. a. Pachytene
- b. Diplotene
- c. Leptotene
- d. Zyogtene

Arrange the above phases of prophase-I of meiosis I in the correct sequence

- (a) $a \rightarrow c \rightarrow a \rightarrow b$
- (b) $c \rightarrow d \rightarrow a \rightarrow b$
- (c) $c \rightarrow d \rightarrow b \rightarrow a$ (d) $c \rightarrow b \rightarrow a \rightarrow d$
- 138. During interkinesis
 - P- Chromosomes becomes chromatin fibres.
 - Q- Replication of DNA occurs.
 - R- Centrioles pairs replicate in animal cells.
 - (a) Only P is correct
 - (b) Only Q and R are correct
 - (c) Only R is correct
 - (d) All are correct
- 139. Interkinesis is a metabolic stage between X and Y

X

Y

- (a) Telophase II
- Prophase I
- (b) Telophase I
- Prophase II
- (c) Telophase I (d) Telophase II
- Prophase I Prophase II
- 140. The reduction in the number of chromosomes occurs during
 - (a) Anaphase of mitosis
 - (b) Anaphase-I of meiosis
 - (c) Anaphase-II of meiosis
 - (d) All of the above

- 141. The stage of cell division in which crossing over completed:
 - (a) The final stage of prophase I
 - (b) The first stage of meiosis II
 - (c) Diplotene
 - (d) The stage between Zygotene and diplotene
- 142. If there are 30 chromosomes in G1 phase then what will be number of bivalents in Meiosis-I pachytene stage?
 - (a) 30
- (b) 15
- (c) 45
- (d) 60
- 143. Select the correct sequence of events that take place during meiosis.
 - P. Reduction in the number of chromosomes.
 - Q. The crossing over is complete (d)
 - R. The bivalent chromosomes align themselves on the equatorial plate.
 - S. Chromatids move to the opposite pole
 - (a) $Q \rightarrow S \rightarrow P \rightarrow R$
 - (b) $Q \rightarrow R \rightarrow P \rightarrow S$
 - (c) $Q \rightarrow P \rightarrow S \rightarrow R$
 - (d) $Q \rightarrow R \rightarrow S \rightarrow P$
- 144. If in G-2 DNA amount is 40pg then in meiosis-I product DNA amount will be
 - (a) 80pg
- (b) 20pg
- (c) 10pg
- (d) Can't determine
- 145. Select the incorrect match.
 - (a) Leptotene Compaction of chromosome
 - (b) Zygotene Bivalents clearly appears as tetrads
 - (c) Diplotene Dissolution of synaptonemal complex
 - (d) None
- 146. Cell at which stage of meiosis is called dyad of cells?
 - (a) Telophase
- (b) Telophase I
- (c) Anaphase I
- (d) Telophase II
- 147. At the end of the first meiotic division, each chromosome consists of:-
 - (a) a homologous chromosome pair
 - (b) four copies of each DNA molecule
 - (c) two chromatids
 - (d) Both a & c

148. Assertion: During metaphase I the bivalents arrange on the equatorial plate.

Reason : During anaphase II, the sister chromatids separate

- (a) Both assertion and Reason are true and the reason is the correct explanation of the assertion, then mark
- (b) Both assertion & reason are true but the reason is not the correct explanation of the assertion, then mark
- (c) Assertion is true statement but reason is false
- (d) Both assertion and reason are false statements
- 149. Metaphase II is different from metaphase I as in the latter one which of the following not events occur
 - (a) Bivalent chromosomes align on the equatorial plate
 - (b) Homologous chromosomes separate from each other
 - (c) Crossing between non-sister over chromatids of homologous chromosomes occur
 - (d) Two Metaphasic plate formed
- 150. If Bivalent number is 11 then number of chromatids in each individual chromosome of daughter cells in meiosis-II
 - (a) 44
- (b) 11
- (c) 2
- (d) 1
- 151. Consider the following statement
 - (I) Centromere holds two chromatids of a chromosome
 - (II) Microbodies not have any enzyme one longer

How many are correct -

- (a) Only I
- (b) Only II
- (c) both I and II
- (d) Both wrong
- 152. Mark the correct statement
 - (a) Many membrane bound minute vesicles called microbodies that contain various enzymes, are present in both plant and animal cells.
 - (b) Sometimes on all chromosomes have non-staining secondary called the satellite.
 - (c) The eukaryotic ribosomes are 70S while the prokaryotic ribosomes are 80S
 - (d) The cell membrane in a cell are involved in many functions such as mechanical support, motility, maintenance of the shape of the cell.

- 153. Mark the correct statement
 - (a) Majority of the chloroplasts of the green plants are found in the mesophyll cells of the leaves
 - (b) Ribosome is made up of protein only
 - (c) lipid membrane absent around ER
 - (d) RER is not involve in protein synthesis
- 154. Few examples are given –

ER, lysosome, mitochondria, leucoplast and ribosome

How many are bound by single membrane

- (a) Five
- (b) Two
- (c) Three
- (d) Four
- 155. Consider the following statement
 - (I) Mitochondria and chloroplast is double membrane bound organelle
 - (II) The space limited by the inner membrane of the chloroplast is called the thylakoid

How many are correct –

- (a) Only I
- (b) Only II
- (c) Both I and II
- (d) Both wrong
- 156. Mark the correctly matched
 - (a) Lysosome -basic hydrolase
 - (b) Chloroplast number fix in all plant cells
 - (c) Cytoskeletal elements- made up of lipid
 - (d) Golgi bodies -Packaging and sorting
- 157. Mark the correct statement
 - (a) The golgi apparatus principally performs the function of packaging materials, to be delivered either to the intra-cellular targets or secreted outside the cell
 - (b) Golgi divides the intracellular space into two distinct compartments luminal and extra luminal compartments.
 - (c) According to this, the quasi-fluid nature of lipid enables lateral movement of Sugar within the overall bilayer
 - (d) Flagella of eukaryotes similar in structure of prokaryotes
- 158. Few examples are given –

Flagella, cilia, spindle fibre, Microfilament, centriole

How many are associated with microtubule

- (a) Five
- (b) Two
- (c) Three
- (d) Four

- 159. Consider the following statement
 - (I) In human beings, the membrane of the erythrocyte has approximately 40 per cent protein and 52 per cent lipids.
 - (II) The major lipids are phospholipids that are arranged in a bilayer in plasma membrane

How many are correct -

- (a) Only I
- (b) Only II
- (c) Both I and II
- (d) Both wrong
- 160. Mark the correctly matched
 - (a) Plasma membrane lipid monolayer
 - (b) Tonoplast membrane of contractile vacuole
 - (c) Sap vacuole present in amoeba
 - (d) Food vacuole Amoeba
- 161. Mark the correct statement
 - (a) Movement of water by Active diffusion is called osmosis.
 - (b) The smooth endoplasmic reticulum is the major site for synthesis of lipid and protein
 - (c) Chlamydomonas have five chloroplast
 - (d) Algae have cell wall, made of cellulose, galactans, mannans and minerals like calcium carbonate
- 162. Few examples are given –

Chloroplast, Mitochondria, ER, sap vacuole, cell wall

How many are present in plant cell

- (a) Five
- (b) Two
- (c) Three
- (d) Four
- 163. Consider the following statement
 - (I) Mesosome is analogous to mitochondria
 - (II) Plasmid is analogus to genomic DNA of eukaryotic cell

How many are correct -

- (a) Only I
- (b) Only II
- (c) Both I and II
- (d) Both wrong
- 164. Mark the correctly matched
 - (a) Chrometophore cyanobacteria
 - (b) Animal cell Sap vacuole
 - (c) Fungi cell plastids
 - (d) Lactobacillus Kreb cycle

- 165. Mark the correct statement
 - (a) In Diatom and dinofalgellates the contractile vacuole is important for osmoregulation and excretion
 - (b) Ribosome is inclusion bodies
 - (c) Pilli and fimbriae is locomotory structure
 - (d) Flagella is present for locomotion in bacteria
- 166. Few examples are given –

Pigments, double membrane, ribosome, protein synthesis, carbohydrate synthesis, cytochrome How many are common in mitochondria and chloroplast

- (a) Five
- (b) Two
- (c) Three
- (d) Four
- 167. Inclusion bodies have role all except
 - (a) Storage
 - (b) Without membrane
 - (c) Granular structure
 - (d) present in all type of cells both eukaryotes and prokaryotes
- 168. Consider the following statement
 - (I) Root cells of plant lack chloroplast
 - (II) Root cells have mitochondria

How many are correct -

- (a) Only I
- (b) Only II
- (c) Both I and II
- (d) Both wrong
- 169. Mark the correctly matched
 - (a) Amyloplast- store starch
 - (b) Centromere secondary constriction
 - (c) Thylakoid non-lipid layer
 - (d) Ribosome inclusion body
- 170. Mark the correct statement
 - (a) The fimbriae are small bristle like help attach the bacteria to rocks in streams and also to the host tissues
 - (b) The pili are elongated tubular structures made of a special sugars
 - (c) Bacterial cells always motile
 - (d) The eukaryotes include all the protists, plants, animals and E.coli

171. Few examples are given –

E.coli, lactobaccilus, agaricus, amoeba, Mesophyll cell and virus

How many are Eukaryotic

- (a) Five
- (b) Two
- (c) Three
- (d) Four
- 172. Consider the following statement
 - (I) Cytochrome is located on thylakoid membrane
 - (II) Mitochondria DNA is circular and double stranded

How many are correct –

- (a) Only I
- (b) Only II
- (c) Both I and II
- (d) Both wrong
- 173. Mark the correctly matched
 - (a) E.coli- Gram negative
 - (b) Plasmid- part of genomic DNA
 - (c) Mesosomes Role in respiration and phootsynthesis
 - (d) Aleuronoplast- have pigments
- 174. Mark the correct statement
 - (a) Centriole is present in algae cell and plant cell
 - (b) Several ribosomes may attach to a single mRNA and form a chain called polyribosomes or polysome
 - (c) The cell envelope of bacteria consists of a loosely bound three layered structure
 - (d) All bacterial cell have cell wall
- 175. Few examples are given –

Plasmid, genomic DNA, ribosome , Nucleus, Glycolysis

How many are present in all bacteria

- (a) Five
- (b) Two
- (c) Three
- (d) Four
- 176. Inyear Matthias Schleiden, a examined a large number of plants and observed that all plants are composed of different kinds of cells which form the tissues of the plant
 - (a) 1938
 - (b) 1838
 - (c) 1997
 - (d) 1839

- 177. Consider the following statement
 - (I) Ribosomes are non-membrane bound organelles found in all cells both eukaryotic as well as prokaryotic.
 - (II) Virus is non living structure

How many are correct –

- (a) Only I
- (b) Only II
- (c) Both I and II
- (d) Both wrong
- 178. Mark the incorrectly matched
 - (a) E.coli- 70 s ribosome
 - (b) Mycoplasma- cell wall absent
 - (c) Cynaobacteria nucleoid present
 - (d) RBC- largest cell in human
- 179. Mark the correct statement
 - (a) all living organisms are composed of cells and products of cells not according to cell theory
 - (b) All living cell have ribosomes
 - (c) all living cells have mitochondria
 - (d) All living cells have pigments
- 180. Few examples are given –

ER, peroxisome, Lysosome, mitochondria, chloroplast

How many are part of endomembrane system

- (a) Five
- (b) Two
- (c) Three
- (d) Four
- 181. Omnis cellula-e cellula is given by
 - (a) scheilden
- (b) Linnaeus
- (c) Virchow
- (d) none
- 182. Consider the following statement
 - (I) Depending on the ease of extraction, membrane proteins can be classified as integral and peripheral.
 - (II) Neutral solutes may move across the membrane by the process of simple diffusion along the concentration gradient,

How many are correct –

- (a) Only I
- (b) Only II
- (c) Both I and II
- (d) Both wrong
- 183. Mark the incorrectly matched
 - (a) ER single membrane structure
 - (b) Nucleolus rRNA synthesis
 - (c) RBC- nucleus not present
 - (d) Axoneme- Core of flagella not cillia

- 184. The axoneme usually has nine doublets of radially arranged peripheral microtubules, and a of centrally located microtubules
 - (a) Single
- (b) Ten
- (c) Pair
- (d) Nine
- 185. Few examples are given –

Axoneme, sap vacuole , chlorophyll a , chlorophyll b , well defined nucleus

How many are present in Chlamydomonas

- (a) Five
- (b) Two
- (c) Three
- (d) Four
- 186. Two parallel membranes of nucleus with a space between (10 to 50 nm) called the-
 - (a) Lumen
 - (b) Perinuclear space
 - (c) Lumen of golgi bodies
 - (d) Lumen of SER
- 187. Mycoplasma lack feature
 - (a) ribosome
 - (b) well defined nucleus
 - (c) double strand dna
 - (d) parasitic to plant and animal
- 188. Consider the following statement
 - (I) The central part of the proximal region of the centriole is also proteinaceous and called the hub
 - (II) The centrioles form the basal body of cilia or flagella, and spindle fibres that give rise to spindle apparatus during cell division in animal cells

How many are correct –

- (a) only I
- (b) only II
- (c) both I and II
- (d) both wrong
- 189. Mark the correctly matched
 - (a) Microfilament- cytoskeletal element
 - (b) Plasmodesmata in plant cells
 - (c) Sap vacuole plant cell and animal cell
 - (d) Gas vacuole Fungi cell
- 190. Mark the correct statement
 - (a) Fungi cell have cell wall of cellulose
 - (b) Nucleus as a cell organelle was first described by Robert Brown as early as 1831

- (c) Of the two, the inner chloroplast membrane is relatively more permeable
- (d) Cell membrane and cell wall both living structure
- 191. Matrix of mitochondria posses
 - (a) single circular DNA molecule
 - (b)few RNA molecules
 - (c) ribosomes (70S)
 - (d) all
- 192. A non-living rigid structure called the cell wall forms an outer covering for the plasma membrane of fungi and plants
 - (a) plasmodesmata
- (b) cell wall
- (c) glycocalyx
- (d) none
- 193. Primary cell wall have feature
 - (a) Quaisfluid
- (b) capable to grow
- (c) lignified
- (d) cellulose absent
- 194. Which is not true for mitochondria
 - (a). Mitochondria are the sites of aerobic respiration.
 - (b) They produce cellular energy in the form of ATP, hence they are called 'power houses' of the cell
 - (c) Divide by Fission
 - (d) similar enzyme in outer and inner membrane
- 195. Consider the following statement
 - (I) Photosystem is present in mitochondria and chloroplast
 - (II) ETS is located in inner membrane of mitochondria
 - (III) Nucleolus is surrounded by no membrane How many are correct –
 - (a) Only I
 - (b) Only I and II
 - (c) All three
 - (d) Only II and III
- 196. Infolding of plasma membrane in cyanobacteria having pigments known as
 - (a) Mesosomes
 - (b) chromatophore
 - (c) ribosome
 - (d) none

197.	Ribosomes are the granular structures first observed under the electron microscope as dense			
	particles by (a) Golgi (c) Robert Virchow	(b) Robert brown(d) George Palade		

- 198. Microbodies that contain various, are present in both plant and animal cells

 (a) Pigments (b) Sugges
 - (a) Pigments(b) Sugars(c) Enzymes(d) Hormone

- 199. Ramachandran metand was deeply influenced by his publications on models of the α -helix and β -sheet
 - (a) Linus Pauling
- (b) Robert brown
- (c) Palade
- (d) Schwann
- 200. The cell wall have role
 - (a) determine the shape of the cell
 - (b) provides a strong structural support
 - (c) prevent the bacterium from bursting or collapsing
 - (d) all

