

1. Golgi complex works for :
(a) excretion (b) respiration
(c) secretion (d) reduction
2. The number of chromosomes becomes half in :
(a) anaphase-I (b) anaphase-II
(c) telophase-I (d) telophase-II
3. Lipid bilayer is present in :
(a) plasma membrane (b) ribosome
(c) chromosome (d) nucleolus
4. Hydrolases are found in :
(a) lysosomes (b) ribosomes
(c) mesosomes (d) peroxisomes
5. Chiasmata are formed :
(a) due to crossing over of some part between homologous chromosomes
(b) due to crossing over of some part between non homologous chromosomes
(c) due to duplication of homologous and non-homologous chromosomes
(d) due to loss of some part of chromosomes
6. Acrosome is formed by :
(a) mitochondria (b) golgi body
(c) ribosomes (d) lysosome
7. In protoplasm fat store in the form of :
(a) polypeptide (b) triglyceride
(c) polysaccharide (d) nucleosides
8. Antibody is formed by :
(a) protein (b) carbohydrate
(c) nucleic acid (d) lipid
9. Food store as oil in :
(a) *Chlamydomonas* (b) *Oedogonium*
(c) *Vaucheria* (d) *Chara*
10. BOD increased by :
(a) algae (b) moss
(c) ferns (d) distilated wastes
11. Lowest number of chromosomes are found in :
(a) *Haplopappus* (b) *Cyprus*
(c) *Salix* (d) None of these
12. Peat moss is :
(a) *Funeria* (b) ferns
(c) algae (d) *Sphagnum*
13. Difference between algae and bryophyte is :
(a) terrestrial habitat
(b) sterile jacket
(c) biflagellate gametes
(d) none of these
14. Which have great importance in genetics?
(a) *Penicillium* (b) *Clewceps*
(c) *Neurospora* (d) None of these
15. The protein toxin producing bacteria, which used to control biological pest is :
(a) *E. coli* (b) *Agrobacterium*
(c) *Mycobacterium* sp. (d) *B. thuringiensis*
16. Bacteria with single flagella at one end is called :
(a) monotrichous (b) lophotrichous
(c) amphitrichous (d) peritrichous
17. Bacteria causing disease of citrus is :
(a) citrus leaf spot
(b) stunt disease

- (c) citrus canker
(d) citrus greening leaf disease
18. O_2 does not evolved in photosynthesis of:
(a) BGA (b) green algae
(c) bacteria (d) autotrophic plant
19. Photosynthetic pigment of bacteria is :
(a) chromoplast (b) chloroplast
(c) leucoplast (d) chromatophore
20. Virus have :
(a) RNA
(b) DNA
(c) Either RNA or DNA
(d) Neither DNA nor RNA
21. Which group is evolutionary modern?
(a) Gymnosperms (b) Grasses
(c) Pteridophytes (d) Algae
22. Absence of which is cause of naked seeds?
(a) Integument (b) Nucellus
(c) Ovary wall (d) Perianth
23. Genes for haemophilia disease is located on :
(a) autosomes (b) mitochondria
(c) chloroplasts (d) sex chromosomes
24. Most stable ecosystem is :
(a) desert (b) marine
(c) mountain (d) forest
25. Stratification occurs in :
(a) desert (b) tropical forest
(c) deciduous forest (d) tundra
26. Ecological pyramids were discovered by?
(a) Eiton (b) Odum
(c) Reiter (d) None of these
27. Haptonastic movement is found in :
(a) *Drosera* (b) *Oxalis*
(c) *Mimosa* (d) *Cucurbita*
28. Which one of the following was rediscoverer of Mendel's work :
(a) Muller (b) Morgan
(c) Correns (d) Bridge
29. In yeast during anaerobic respiration how many glucose molecules are required for production of 38 ATP?
(a) 1 (b) 2
(c) 19 (d) 38
30. Krebs's cycle is completed by :
(a) hydrogenation (b) oxidation
(c) nitrification (d) reduction
31. Tulip belong to family :
(a) Asteraceae (b) Liliaceae
(c) Brassicaceae (d) Malvaceae
32. Tetradyamous stamens are found in :
(a) Cruciferae (b) Amaryllidaceae
(c) Mimoseae (d) Compositae
33. Bicarpellary, syncarpus and with pseudoseptum fruit is :
(a) siliqua (b) akene
(c) capsule (d) all of these
34. Heroin is :
(a) diacetyl morphine
(b) triacetyl morphine
(c) tetra acetyl morphine
(d) mono acetyl morphine
35. Conditions helpful in photo respiration are :
(a) more O_2 and less CO_2
(b) less O_2 and more CO_2
(c) more temperature and less O_2
(d) more humidity and less temperature
36. Bicollateral bundles are found in :
(a) Cucurbitaceae (b) Malvaceae
(c) Cruciferae (d) None of these
37. Vascular bundle with cambium is called :
(a) closed (b) open
(c) exarch (d) endarch
38. When phloem is surrounded completely by xylem the vascular bundle is called :
(a) amphicribal (b) amphivasal
(c) conjoint (d) collateral
39. Lignification is associated with :
(a) xylem (b) phloem
(c) parenchyma (d) chlorenchyma

40. Periderm included :
 (a) Phellum, Phellogen, Plerome
 (b) Phellum, Phellogen, Dermatogen
 (c) Phellum, Phellogen, Phelloderm
 (d) Phellum, Phellogen, Cortex
41. Which of the following is the result of double fertilization?
 (a) Cotyledon (b) Nucellus
 (c) Endosperm (d) None of these
42. Embryo sac is :
 (a) megagametophyte (b) megasporophyte
 (c) megasporophyll (d) endosperm
43. Pollen tube entered through micropyle in :
 (a) porogamy (b) chalazogamy
 (c) syngamy (d) misogamy
44. Which formed in oxidative phosphorylation ?
 (a) ATP in photosynthesis
 (b) ATP in respiration
 (c) NADPH₂ in photosynthesis
 (d) NADPH₂ in respiration
45. Which of the following is the region of cell division?
 (a) Root cap
 (b) meristematic region
 (c) Root hair zone
 (d) None of these
46. Natural auxin is :
 (a) NAA (b) IAA
 (c) 2, 4-D (d) Aviton
47. How many letters used in genetic code?
 (a) 1 (b) 2
 (c) 3 (d) 4
48. Correct name is :
 (a) *Brassica indica*
 (b) *Mengifera Indica*
 (c) *SOLANUM MELONGINA*
 (d) *Mimosa Pudica*
49. Two stamens as exception in Cruciferae are found in :
 (a) *Nastrnsium* (b) *Senebiera*
 (c) *Raphanus* (d) *Brassica*
50. Difference between prokaryote and eukaryote is :
 (a) in cell size
 (b) in cell shape
 (c) in chemical composition of protoplasm
 (d) in organization of nuclear material
51. Stomata are also called as :
 (a) stomates (b) lenticels
 (c) hydathods (d) bark
52. In soil water available for plants is :
 (a) capillary water
 (b) chemically bound water
 (c) gravitational water
 (d) hygroscopic water
53. Who discovered the super bugs?
 (a) H.G. Khorana
 (b) Dilip Sah
 (c) Anand Mohan Chakarwarty
 (d) Robert
54. Genes are located in :
 (a) chromosomes (b) ribosomes
 (c) lysosomes (d) sphaerosomes
55. In *Amoeba*, osmoregulation takes place by:
 (a) contractile vacuole (b) ectoplasm
 (c) pseudopodia (d) hyaloplasm
56. The infective stage of *Plasmodium* in humans is:
 (a) sporozoite (b) trophozoite
 (c) gametocyte (d) merozoite
57. In *Plasmodium* ookinete is formed by :
 (a) trophozoite (b) zygote
 (c) sporozoite (d) merozoite
58. In *Plasmodium* signet ring stage is formed during:
 (a) exo-erythrocytic schizogony
 (b) erythrocytic schizogony
 (c) sporogony
 (d) gamogony
59. During unfavourable conditions *Amoeba* reproduces through:
 (a) binary fission (b) sporulation
 (c) multiple fission (d) conjugation
60. Radial symmetry is found in :
 (a) frog (b) starfish

- (c) humans (d) *Pheretima* (c) golgi body (d) peroxisomes
61. In *Hydra* reproduction occurs in favourable conditions :
 (a) by budding (b) by gametes
 (c) by gemmules (d) binary fission
62. Haemocoel is present in :
 (a) *Pheretima* (b) *Periplaneta*
 (c) Sponge (d) *Ascaris*
63. Chitin as exoskeleton found in :
 (a) *Periplaneta* (b) *Ascaris*
 (c) *Pheretima* (d) *Hydra*
64. Pseudocoel is present in :
 (a) *Periplaneta* (b) *Ascaris*
 (c) *Pheretima* (d) *Hydra*
65. *Ascaris* is found in :
 (a) body cavity (b) lymph nodes
 (c) tissue (d) alimentary canal
66. *Ascaris* is :
 (a) a parasite
 (b) a autotroph
 (c) facultative autotroph
 (d) facultative heterotrophy
67. Alimentary canal is absent in :
 (a) Cestoda (b) Gastropoda
 (c) Nematoda (d) Pelecypoda
68. Metameric segmentation is the main feature of:
 (a) Annelida (b) Echinodermata
 (c) Arthropoda (d) Coelenterata
69. Naked DNA without histones is found in :
 (a) prokaryotes (b) eukaryotes
 (c) protozoa (d) coelenterate
70. Nematoblasts are formed by :
 (a) interstitial cells (b) gland cells
 (c) mesoepithelial cells (d) nerve cells
71. Yellow spot is found in :
 (a) muscles (b) nerves
 (c) kidney (d) eyes
72. Spindles are formed by :
 (a) microtubules
 (b) endoplasmic reticulum
73. Scales are found in :
 (a) pisces (b) rabbit
 (c) human (d) rat
74. Which is not correct for birds?
 (a) Exothermic (b) Pneumatic bones
 (c) Lungs with air sacs (d) Amniotes
75. Which is not a part of hindbrain?
 (a) Thalamus (b) Cerebellum
 (c) Pons (d) Medulla
76. Types of salivary glands present in rabbit are :
 (a) one (b) two
 (c) three (d) four
77. Which is not in pair in rabbit?
 (a) Azygous vein (b) Hemizygous vein
 (c) Caudal vein (d) All of these
78. Canal system is present in phylum :
 (a) Annelida (b) Porifera
 (c) Acanthocephala (d) Echinodermata
79. Mitosis occurs in :
 (a) skin cells (b) heart cells
 (c) kidney cells (d) all of these
80. Book lungs are the respiratory organs in:
 (a) protozoans (b) cnidarians
 (c) arthropodes (d) amphibians
81. *Ichthyophis* belongs to :
 (a) Amphibia (b) Reptilia
 (c) Pisces (d) Aves
82. Cleavage found in mesolecithal egg is :
 (a) holoblastic and equal
 (b) holoblastic and unequal
 (c) meroblastic
 (d) discoidal
83. Egg of frog is :
 (a) alecithal (b) macrolecithal
 (c) telolecithal (d) mesolecithal
84. Which is formed in gastrulation?
 (a) Archenteron (b) Heart
 (c) Brain (d) None of these

85. Which is the function of nor-epinephrin ?
 (a) Increase blood pressure
 (b) Urine formation
 (c) Increase secretion of adrenalin
 (d) None of the above
86. Ammonia is converted into urea in :
 (a) kidney (b) lungs
 (c) liver (d) spleen
87. Vitamin C is present as :
 (a) oxalic acid (b) glutemic acid
 (c) ascorbic acid (d) citric acid
88. Corti's organ is present in :
 (a) Reisner's membrane
 (b) Scala vestibuli
 (c) Basilar's membrane
 (d) Middle lamella
89. Eggs of cockroach give rise to :
 (a) nymph (b) caterpillar
 (c) larva (d) pupa
90. Typhlosole is found in :
 (a) *Pheretima* (b) *Periplaneta*
 (c) *Hydra* (d) *Ascaris*
91. Which is not an insect?
 (a) Spider (b) Housefly
 (c) Cockroach (d) Mosquito
92. Echolocation system is found in :
 (a) *Equns* (b) Amphibia
 (c) Bat (d) *Oryctolagus*
93. Which is a reptile?
 (a) Salamander (b) Newt
 (c) Toad (d) Turtles
94. Covering of vacuoles is formed by :
 (a) plasma membrane (b) tonoplast
 (c) leucoplast (d) symplast
95. Phenomenon of industrial melanism demonstrates :
 (a) reproductive isolation
 (b) genetic isolation
 (c) natural selection
 (d) geographical isolation
96. Which sugar is present in nucleic acid?
 (a) Pentose (b) Hexose
 (c) Fructose (d) Glucose
97. Which of the following maintain the shape of cell?
 (a) Osmotic pressure (b) Turgor pressure
 (c) Wall pressure (d) Osmosis
98. Vivipary is found in :
 (a) Coelenterata (b) Protozoa
 (c) Rabbit (d) Pisces
99. The ultimate energy source of ecosystem is :
 (a) solar energy (b) biomass
 (c) producer (d) carbohydrates
100. Testis fail to descend in scrotal sacs, this condition is called as :
 (a) cryptorchidism (b) hernia
 (c) castrection (d) none of these

Answer – Key

1.	c	2.	a	3.	a	4.	a	5.	a	6.	d	7.	b	8.	a	9.	c	10.	a
11.	a	12.	d	13.	b	14.	c	15.	d	16.	a	17.	c	18.	c	19.	d	20.	c
21.	b	22.	c	23.	d	24.	d	25.	b	26.	a	27.	a	28.	c	29.	c	30.	b
31.	b	32.	a	33.	a	34.	a	35.	a	36.	a	37.	b	38.	a	39.	a	40.	c
41.	c	42.	a	43.	a	44.	b	45.	b	46.	b	47.	c	48.	a	49.	b	50.	d
51.	a	52.	a	53.	c	54.	a	55.	a	56.	a	57.	c	58.	b	59.	c	60.	b
61.	a	62.	b	63.	a	64.	b	65.	a	66.	a	67.	a	68.	a	69.	a	70.	a
71.	d	72.	a	73.	a	74.	a	75.	a	76.	d	77.	d	78.	b	79.	d	80.	c
81.	a	82.	b	83.	d	84.	a	85.	a	86.	c	87.	a	88.	c	89.	a	90.	a
91.	a	92.	c	93.	a	94.	b	95.	c	96.	a	97.	b	98.	c	99.	a	100.	a