Paper Code - 3128

B.Sc. Semester-I (Biotechnology)New Course
July-September-2021
Introduction to Biotechnology and Cell biology

કુલ સમય :– ૬૦ મીનીટ કુલ પ્રશ્નો : ૫૦ વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૩૫

નોંધ : વિદ્યાર્થીએ માત્ર ૩૫ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૩૫ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

1. Which organelle is responsible for synthesis of protein?
   A. Ribosome B. Golgi body C. Lysosome D. All
2. Identify organelle with single membrane
   A. Nucleus B. Ribosome C. Chloroplast D. Lysosome
3. Which one of the following is referred as power house of cell?
   A. Mitochondria B. Ribosome C. ER D.All
4. Eukaryotic ribosome is----------
   A. 80 S B. 70 S C. 60 S D. 100 S
5. Cell theory was proposed by
   A. Robert Hooke B. Robert Brown C. Mendel D. None
6. Cell term was first given by
   A. Robert Hooke B. Robert Brown C. Mathias Schleden D. Fleming
7. In a structure of cell membrane lipid is present in ----------layer
   A. One B. Two C. Three D. Four
8. Chloroplast is responsible for
   A. Photosynthesis B. Cellular respiration C. Lipid synthesis D. None
9. Prokaryotic cell has ----------type of ribosome
   A. 80 S B. 70 S C. 50 S D. 40 S
10. DNA is found in
    A. Mitochondria B. SER C. RER D. All
11. RER has ----------on its outer membrane.
    A. Ribosome B. Lysosome C. Nucleosome D. Spliceosome
12. Bacterial chromosome is found as ---------
    A. Covered by nuclear membrane B. Uncovered free in cytoplasm
    C. Found as plasmid D. Not found in cell.
13. Identify non membrane bound organelle.
    A. Lysosome B. Ribosome C. rER D. SER
14. Lipid synthesis is function of
    A. RER B. SER C. Ribosome D. Lysosome
15. Glycoproteins are synthesis zed in
    A. Golgibody B. Cell waqll C. Lysosome D. Mitochondria
16. An animal cell does not have
    A. Nucleus B. Lysosome C. Chloroplast D. Mitochondria
17. ----------is part of endo membrane system
    A. ER B. Golgi C. Lysosome D. All
18. I am kitchen of plant cell, I am
    A. Chloroplast B. Mitochondria C. SER D. RER
19. “omnis cellulae e cellulae” was proposed by
    A. Rudolf Virchow B. Robert Hooke C. Robert Brown D. None
20. This structure is not found in plant cell
    A. Chloroplast B. Mitochondria C. Centriole D. RER
21. ----------is factory of protein synthesis.
    A. Ribosome B. Lysosome C. SER D. All
22. Identify suicidal bag of cell
    A. Lysosome B. Metasome C. Nucleus. D. Ribssome
23. DNA is found in ----------location of plant cell
    A. Nucleus, mitochondria only B. Nucleus, mitochondria, chloroplast
    C. Nucleus only D. Not found
24. Cell membrane structure is best explained by
    A. Unit membrane model B. Fluid membrane model C. Sandwich model D. Flip flop model
25. Membrane proteins are
    A. Peripheral only B. Integral only C. A AND B BOTH D. None of above
26. Identify passive process
    A. Simple diffusion B. Facilitate d diffusion C. Active transport D. A and B
27. Osmosis is
    A. Simple and passive process B. Active diffusion C. Facilitated diffusion D. Both A and B

28. Cell membrane is
A. Semi permeable B. Selectively permeable C. Completely permeable D. Both A and B.
29. Identify a prokaryotic cell
A. Yeast cell B. *E.c*oli C. Animal cell D. Plant cell
30. This is limitation of primary cell theory
A. Omnis cellula e cellula B. New cell does arise from cell division of preexisting cell
C. Can not explain generation of new cell D. No limitation is there.
31. Plasmodesmata is found in
A. Plant cell B. Animal cell C. Bacterial cell D. All
32. Enzymes for ATP synthesis are located in ----------of mitochondria
A. Inner membrane B. Outer membrane C. Matrix D. None
33. Enzymes for dark reactions are found in----------of chloroplast
A. Stroma B. Thylakoid membrane C. Grana D. Granum
34. Lysosomes have ----------type of enzymes?
A. Nuclease4 B. Protease C. Lipase D. All
35. Fluid membrane model for cell membrane was proposed in year
A. 1977 B. 1978 C. 1972 D. 1900
36. This organelle is required for photosynthesis, it is
A. Chloroplast B. Mitochondria C. ER D. Lysosome
37. Cell wall of plant cell is made up of
A. Chitin B. Cellulose C. Silica D. Lipid
38. Identify processes involved in active transport
A. Sodium potassium pump B. Use of ATP C. Uphill transport D. All
39. All membrane bound organelles are absent in eukaryotic cell- this statement is
A. Always correct B. Always incorrect
C. Correct or incorrect depend upon situation. D. None
40. Prokaryotic organism is ----------
A. Always unicellular B. Always multi cellular C. Some times multi cellular D. Acellular
41. Which one of the following is a product of Red Biotechnology?
A. Cheese B. BT Cotton C. Corona Vaccine D. All of the above
42. Who is considered as father of Biotechnology?
A. Karl Erky B. Mendel C. Luise Pasture D. Watson
43. Which of the following is first clone animal?
A. Dolly Sheep B. Rosie Cow C. Micky Mouse D. Tom Cat
44. Which of the followings are/is branch of Biotechnology?
A. Microbial Biotechnology B. Molecular Biotechnology
C. Marine Biotechnology D. All of the above
45. Which one of the following is useful for identification of criminals?
A. DNA Fingerprinting B. DNA Sequencing C. DNA Footprinting D. DNA walking
46. Biotechnology means...
A. Use of engineering science and technology for benefits of humans
B. Use of cells and their products for benefits of humans
C. Use of technology to create new organisms
D. All of the above
47. Full form of GSBTM...
A. Gujarat State Biotechnology Mission B. Gujarat State Biological Technology Model
C. Gujarat Section of Biotechnology and Microbiology D. None of the above
48. Which of the following is a product of green biotechnology?
A. FlavrSvr Tomato B. Corona virus testing kit C. Antibiotics D. Probiotic foods
49. Bt Cotton protects crop from..
A. High Temperature B. High salinity C. Draught condition D. Insects like ballworm
50. Which of the followings are carrier opportunity in Biotechnology?
A. Scientist, Professor, Teacher
B. MLT, Hospital Management, Nursing
C. Pharmaceutical, Dairy, Chemical, Agriculture industry
D. All of the above