

D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1.

MEDICAL BIOTECHNOLOGY

SECTION-A 2 Marks

1. Define catabolism.
2. Define anabolism.
3. Define anatomy.
4. What are the major organs systems present in our human body?
5. What is called cells and tissues?
6. Define homeostasis.
7. Define systole.
8. Define diastole.
9. Define respiratory system.
10. Define pharynx.
11. What is the function of alveoli?
12. What is called upper and lower respiratory tract?
13. Define epiglottis.
14. Define larynx.
15. Define circulatory system.
16. Write any three functions of digestive system.
17. Define excretory system.
18. Write some function of reproductive system.
19. What is called central nervous system?
20. Define Neuron.
21. What is called peripheral nervous system?
22. Define nephron.
23. What is the function of sensory and motor neurons?
24. Define neurotransmitters.
25. What is called as synapse?
26. Mention some disorders of CNS.

27. What is called reproductive system?
28. Define testes.
29. Define ovum.
30. Define semen.
31. Define spermatogenesis.
32. Define Ovary.
33. What is the function of uterus?
34. Define menstruation.
35. What is called fertilization?
36. Define phenylketonuria.
37. What is called hypercholestremia?
38. Define Diabetes.
39. What is called rickets?
40. Define hyperthyroidism.
41. Define microbial disease.
42. Define bacterial disease.
43. Define fungal disease.
44. What is called viral disease?
45. Define parasitic disease.
46. Define chromosomal disorder.
47. Define genetic disease.
48. Define epidemics.
49. Define infectious disease.
50. What is called congenital disease?
51. Define contagious disease.
52. What is called anthrax?
53. Give some example for parasitic disease?
54. Define TB infection?
55. What is meant by prenatal diagnosis?
56. What is called invasive techniques?
57. What is called non-invasive techniques?

58. Define amniocentesis.
59. Define fetoscopy.
60. What is called chorionic villi sampling?
61. Define ultrasonography.
62. What is called X- ray?
63. Define maternal serum.
64. What is called Hepatitis?
65. Define AIDS.
66. Define enzyme markers.
67. What is called monoclonal antibodies?
68. Define gene therapy?
69. Define ex-vivo gene therapy?
70. Define in-vivo gene therapy?
71. Define in-situ gene therapy?
72. What are the types of gene therapy?
73. Define gene Augmentation?
74. Define hypercholesterolemia?
75. Define cystic fibrosis?
76. What is called Alzheimer's disease?
77. Define hemophilia.
78. Define stem cell.
79. Define Nanomedicine?
80. Define microarray technology?
81. What is cell based therapies?
82. What is genomic DNA?
83. What are cDNA arrays?
84. What are the potential uses of human stem cell?
85. What are the unique features of nanomedicine?
86. Application on nanomedicine?
87. Define microarray technology and its application?
88. Write ethics of nanotechnology in medicine?

SECTION-B 5 MARKS

1. Write short notes on upper respiratory system.
2. Brief short notes on lower respiratory system.
3. Write about the functions of circulatory system.
4. Give short notes on blood.
5. Write short notes on blood vessels.
6. Write short notes on muscular movements of gastro intestinal tract.
7. Write about the functions of digestive system.
8. Write short notes on salivary glands.
9. Write about chemical digestion and absorption in the stomach.
10. Illustrate the structure of pancreas.
11. Write short notes on liver.
12. Give short notes on small intestine.
13. Brief short notes on large intestines.
14. Write about the role of hormones involved in the digestive tract.
15. Briefly explain about the role of kidney in excretion.
16. Write short notes on tubular reabsorption.
17. Write about the functions of liver in excretion.
18. Illustrate the structure of neurons.
19. Write short notes about the structure of brain.
20. Give short notes on pheripheral system.
21. Write short notes on male reproductive system.
22. Brief short notes about female reproductive system.
23. Write short notes on phenylketonuria.
24. Difference between type I and type II diabetes.
25. Write short notes on rickets.
26. Give short notes on viral disease?
27. Write about bacterial disease?
28. Brief short notes about parasitic disease?
29. Write about any one fungal disease?

30. Brief short notes on cystic fibrosis.
31. Write about the classification of genetic disease.
32. Write short notes on chromosomal disorders.
33. Write about numerical and structural disorders.
34. Write short notes on fetoscopy.
35. Write about amniocentesis.
36. Give short notes on chorionic villi sampling.
37. Brief short notes on ultrasonography.
38. Write short notes about X-ray.
39. Give short notes

SECTION-C 10 MARKS

1. Explain in detail about respiratory system.
2. Discuss about the structure and functions of heart.
3. Give a detailed account on digestive system.
4. Explain about the structure and functions of nephron.
5. Describe about central nervous system.
6. Explain in detail about female reproductive system.
7. Discuss about male reproductive system.
8. Explain about diabetes mellitus.
9. Write in detailed about hypercholesteremia.
10. Discuss about hyperthyroidism.
11. Discuss about bacterial disease – Mechanism of infection, mode of transmission and prevention.
12. Explain about viral disease – Mechanism of infection, mode of transmission and prevention.
13. Discuss about fungal disease – Mechanism of infection, mode of transmission and prevention.
14. Discuss about bacterial disease – Mechanism of infection, mode of transmission and prevention.
15. Discuss about parasitic disease – Mechanism of infection, mode of transmission and prevention.

16. Explain about hemophilia.
17. Discuss about molecular basis of human disease with an example.
18. Discuss about chromosomal disorders.
