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

PHYSIOLOGY AND DEVELOPMENTAL BIOLOGY

SECTION-A 6 Marks

1. Any two enzymes of carbohydates
2. Any two enzymes of ptns
3. Any two enzymes of lipids
4. Role of gastrointestinal hormones in digestion
5. BMI
6. Nervous and chemical control of respiration
7. chemical control of respiration
8. Structure of heart
9. Origin of “tub” beat
10. Neural legalation of circulation
11. Process of digestion
12. Structure of kidney
13. Blood supply in kidney
14. Urine formation
15. Glomerular filteration
16. Hydrostatic pressure
17. Tubular reabsorption
18. Active, passive transport
19. Urine concerentration
20. Micturition
21. Neural legulation of kidney in man
22. Hormonal legulation of kidney in man
23. Muscle fibre
24. Muscle proteins
25. Muscle contraction theories

26. Smooth muscle types
27. Role of calmodulin
28. Characteristics of muscle contraction
29. Rigor mortis
30. Components of CNS
31. Sympathetic nervous system
32. Parasympathetic nervous system
33. Neurons – structure
34. Neurotransmitters
35. Reflex action
36. Structure of sperm
37. Structure of ovary
38. Menstrual cycle
39. Write any two hormones of pregnancy
40. Spontaneous
41. Induced and point mutation
42. Nonsense and misense mutation
43. Frame shift mutation
44. Write the process of breathing rate
45. Regulaiton of breathing
46. Regulation of breathing at rest
47. Gaseous exchange in lungs
48. Chambers of heart
49. Conduction system of heart
50. Cardiac cycle
51. Blood flow through heart
52. Parts of renal system
53. Kidney function
54. Nephron
55. Nephron function
56. Urine function

57. Selective reabsorption in kidney
58. Structure of skeletal muscle
59. Characteristics of muscle tissue
60. Spinal cord
61. Brain
62. Draw cross section of brain
63. Nervous system communication
64. Peripheral nervous system
65. Draw nervous system organization diagram
66. Any two types of chromosomal aberrations
67. Importance of protease enzyme
68. Importance of lipase
69. Role of enzymes in digestion of food
70. Transmissions of nerve impulse
71. Thyroid hormone
72. Pregnancy hormone
73. Oorzenesis
74. Parthenogenesis
75. Any two chromosomal aberration

SECTION-B 15 Marks

1. Enzymes of carbohydrates
2. Enzymes of proteins
3. Enzymes of lipids
4. Structure of lungs
5. Mechanism of respiration
6. Nervous and chemical control respiration
7. Circulatory system
8. Cardiac cycle and origin of heart beat

9. Hormonal and neural regulation of circulation
10. Sturcture and function of kidney
11. Neural and hormonal regulation of kidney in man
12. Discuss about urine composition, formation and concerntration
13. Anatomy of muscle fibre
14. Characteristics and theires of muscle contraction
15. Nervous system
16. Structure, types and its function of neuron
17. Hormones of pregnancy
18. Hormons of male reproductive system
19. Hormons sof female reprodctive system
20. Biochemical basis of mutation
21. Types of mutation
22. Chromosomal aberration
23. Physiology of muscle contraction

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