# First Year MBBS

Physiology I

# Supplementary Exam 2015

1. The fastest conduction velocity in the heart is seen in the
2. Inter-nodal pathway
3. Distal portion of the A-V bundle
4. Purkinje fibers
5. Ventricular muscle mass
6. The maximum volume of circulating blood at any given instant is in the
7. Systematic arteries
8. Systematic veins
9. Capillaries
10. Pulmonary vessels
11. The percentage of the total cardiac output flowing through the coronary circulation in a resting healthy adult is approximately
12. 4-5%
13. 8-10%
14. 12-15%
15. 18-20%
16. The total compliance (ml/cm water) of both lungs inn a healthy normal adult averages
17. 200
18. 300
19. 400
20. 500
21. The normal diffusion capacity of the lungs for oxygen (in ml/min/mmHg) in healthy adults is
22. 17
23. 19
24. 21
25. 23
26. Under resting conditions, the predominant ion in saliva is
27. Sodium
28. Potassium
29. Chloride
30. Bicarbonate
31. Which of the following is NOT a stimulator of pancreatic secretions?
32. Cholecystokinin
33. Secretin
34. Gastrin
35. Acetylcholine
36. The shivering centre in humans is located in
37. Posterior hypothalamus
38. Anterior hypothalamus
39. Pontine reticular formation
40. Primary motor cortex
41. The amount of ingested iodides required to form normal quantities of thyroxine in a healthy adult is
42. 1 mg/week
43. 1 mg/day
44. 1 mg/month
45. 10 mg/year
46. All of the following are features of Conn’s Syndrome EXCEPT
47. Metabolic acidosis
48. Hypokalemia
49. Hypertension
50. Decreased plasma Renin concentration
51. Which of the following hormones uses Phospholipase C as a second messenger?
52. Growth hormone
53. Glucagon
54. Calcitonin
55. Angiotensin II
56. The normal duration of spermatogenesis from spermatogonia to spermatozoa is
57. 14 days
58. 24 days
59. 54 days
60. 74 days
61. Cardiac output is decreased in all the following conditions EXCEPT
62. Myocarditis
63. Severe valvular heart disease
64. Cardiac tamponade
65. Arteriovenous fistula
66. In a patient of cardiac arrest, if all nervous circulatory reflexes are abolished, the arterial pressure would fail to approximately
67. 0 mmHg
68. 7 mmHg
69. 15 mmHg
70. 20 mmHg
71. The time taken by the Renin-Angiotensin system to become fully active is about
72. 10 min
73. 20 min
74. 30 min
75. 40 min
76. The frequency of intrinsic slow wave activity in the gastro-intestinal tract is maximum in the
77. Duodenum
78. Stomach
79. Terminal ileum
80. Proximal ileum
81. Which of the following statements about the hormone Motilin is INCORRECT?
82. It is secreted during the fasting state
83. It is principally secreted by the stomach and upper duodenum
84. It stimulates gastro-intestinal motility
85. Is released when food reaches the stomach
86. Evaporation of one gram of sweat from the surface of the skin results in a heat loss of
87. 0.28 kcal
88. 0.38 kcal
89. 0.48 kcal
90. 0.58 kcal
91. All of the following are peptide hormones EXCEPT
92. Oxytocin
93. Calcitonin
94. Prolactin
95. Thyroxine
96. Which of the following is a hormone NOT secreted by the Corpus Luteum?
97. Inhibin
98. Progesterone
99. Estrogen
100. Chorionic Gonadotropin