**ARKA JAIN University, Jharkhand**

1st Semester 2nd Internal Examination – 2023-2024



**Subject: Human Anatomy & Physiology-I (Theory)**

**Course: B. Pharm** **Full Marks: 30**

**Time: 1hr**

* **All Questions are compulsory**.
1. **Multiple Choice Questions**$\left(10×1=10\right)$
2. **Which of the following blood cells play an important role in blood clotting?**
3. Thrombocyte
4. Neutrophils
5. Leucocytes
6. Erythrocytes
7. **Which of statements below describes B lymphocytes the best?**
8. B lymphocytes has nucleus composed of lobules
9. B lymphocytes are precursors of plasma cells
10. B lymphocytes has phagocytic activity
11. B lymphocytes produce antibodies
12. **Which hormone or cytokine simulates formation of red blood cells?**
13. Erytropoietin (Epo)
14. Interleukin 1 (IL 1)
15. Interleukin 6 (IL 6)
16. Vasopresin
17. **Which of the following are not lymphoid cells?**
18. T cells
19. B cells
20. Natural killer cells
21. Megakaryocytes
22. **Which of the following vitamin helps in blood clotting?**
23. Vitamin A
24. Vitamin C
25. Vitamin D
26. Vitamin K
27. **Which of these immune cells are able to quickly respond post any subsequent encounter with the same antigen?**
28. Helper T cells
29. Memory cells
30. Plasma cells
31. Basophil
32. **The tricuspid valve is present between**
33. Ventricle and pulmonary artery
34. Ventricle and aorta
35. Left auricle and left ventricle
36. Right auricle and right ventricle
37. **What cells in the kidney monitor blood pressure, releasing renin when blood pressure is low?**
38. Cortical cells
39. Angiotensinogen cells
40. Aldosterone cells
41. Juxtaglomerular cells
42. **Fibrin stabilizing factor is**
43. Clotting factor II
44. Clotting factor III
45. Clotting factor VII
46. Clotting factor XIII
47. **The predominant intracellular cation is**
48. Potassium
49. Sodium.
50. Calcium.
51. Magnesium
52. **Long Answers (Answer 1 out of 2)** $\left(1×10=10\right)$
53. Mention coagulation factors and write the mechanism of Hemostasis.
54. Define Hemopoiesis. Describe the process of Hemopoiesis and factors required or influencing Hemopoiesis.
55. **Short Answers (Answer 2 out of 3)**$ (2×5=10)$
56. Briefly discuss about short and long term of regulation of blood pressure.
57. Write short notes on heart valve & blood circulation
58. Explain action potential of ventricular contractile muscle fibre.