Physiology including Biochemistry Question bank

(New pattern)

Q.1.Write appropriate answers (any ten out of fifteen)

10X2= 20

System:- (Blood, CVS, Respiratory, Excretory System, Special Senses, Body temp, Skin, Physics.)

BLOOD:-

- 1. Write function of monocytes
- 2. Write two functions of blood.
- 3. Define etyfropoeisis
- 4. What is haemolysis
- 5. What is ABO SYSTEM?
- 6. Define Anaemia
- 7. What is Hemolytic anaemia
- 8. What is phagocytosis
- 9. Give two functions of platelates
- 10. Give full form for E.S.R.
- 11. What is first reaction in blood clotting?

C.V.S.

- 12. Name coverings of heart
- 13. What is S.A. NODE?
- 14. What is A.V. node
- 15. Define cardiac cycle
- 16. Nature of 1st heart sound
- 17. What is cardiac murmur?
- 18. Define cardiac out put
- 19. What is E.C.G.?
- 20. What is significance of P.R. INTERVAL?
- 21. What is heart rate?

Respiratory

- 22. What is function of nasal cavity?
- 23 Two character tics of trachea
- 24. Give two functions of lungs
- 25. What is surfactant?
- 26. What is anatomical dead space
- 27. What is alveolar capacity
- 28. Diffusion
- 29. Bucket handle movement
- 30. What is cyanosis
- 31. Define respirations

Excretory

- 32. Write two functions of kidney
- 33. What is Henley's loop?
- 34. Why glucose is called threshold
- substances
- 35. Micturations
- 36. What is G.F.R.?
- 37. What is Erythropoietin?
- 38. What is rennin angiotensin
- 39. Hydronephrosis
- 40. Normal capacity of urinary bladder
- 41. What is dehydration?

Special Senses

- 42. Name the visual cells of retina
- 43. Name the chamber's of eye-ball
- 44. Define myopia
- 45. What are accommodations?
- 46. What is dark adaptation?

Body temp & Regulations

- 47. What is normal body temp write in
- Farhenite
- 48. What is B.M.R.?
- 49. Define hypothermia

Skin

- 50. Name the layers of skin
- 51. Two function of skin

Bio-Physics

- 52. What is Active-transport?
- 53. Define osmosis
- 54. What is chemo taxis

Q.2. System (write short answer) any four out of six

4X5=20

(Blood, cardio, Vascular, system, R.E. System, Lymph, Spleen.)

BLOOD

- 1. Name the plasma proteins write their important functions
- 2. Name the functions of blood

- 3. What is polycythemia, Explain various types
- 4. What are abnormal hemoglobin's write any two
- 5. What are immunoglobulin's write their functions
- 6. Write phagocytic phenomenon with figure
- 7. Give composition, formation and functions of lymph,
- 8. What is co-agulations write importance of co-agulations
- 9. Immune Response
- 10. Importance of blood transfusion

C.V.S.

- 11. Properties of cardiac muscles
- 12. Electrical stimulations of heart
- 13. Factors affecting cardiac out put
- 14. Coronary circulations
- 15. Pulmonary circulations
- 16. What is heart sound write their peculiarity
- 17. What is heart block
- 18. Write importance of radial pulse
- 19. Explain normal E.C.G.
- 20. What is blood pressure how it is regulate.
- 21. Define redial pulse & give its types
- 22. Explain P.R. interval with diagram

R.E. SYSTEM

- 23. Write an account on phygo cytosis
- 24. Give the classification of R.E.S.

LYMPH

- 25. What is lymphatic glands write constituent of lymph
- 26. Formation, composition and function of lymphl

*SPLEEN

- 27.Describe the structure and function of spleen
- 28.Role of spleen in destruction of R.B.C.
- 29.Function of W.B.C.
- 30. Formation of Haemoglobin

Q.3. Write short answer (any four out of six)

4X5 = 20

System:- (Excretory system, Special Senses, Respiratory System, Skin)

EXCRETORY SYSTEM

- 1. Formation of urine
- 2. Write function of bowman's capsules
- 3. Write normal composition of urine
- 4. Factors maintaining renal circulations
- 5. Describe micturations reflex write physiological importance's
- 6. What is renal test's how it is perform

SPECIAL SENSES

- 7.Draw a neat label diagram of eye-ball and write two functions of layers of eye-ball
- 8. Structure and function of retina
- 9. Write brief not on visual cycle
- 10. What is myopia how it is corrected
- 11. What is astigmatism

- 12. Write a short note on visual accommodations
- 13.colour vision.

RESPIRATORY SYSTEM

- 14. Name the muscles involved in the respiration write their action during respirations
- 15. What is artificial respirations
- 16. Write pulmonary volumes & capacities
- 17. Gaseous exchange at alveolar level
- 18. Nervous control of respirations
- 19. What is apnoea how it is corrected.

SKIN

20. Name the layers of epidermis write their functions

Q.4. Long answer question (any two out of four)

2X10=20

System: - (Blood, C.V.S., Respiratory System, Body Temp & Regulation)

BLOOD

- 1. What are different types of anaemia give examples
- 2. Name the clotting factors write mechanism of coagulation
- 3. Give an account of blood group
- 4.Define erythropoietin describe the different stages and its regulation
- 5.Describe fate of R.B.c.

C.V.S.

- 6. What is heart sound? Describe their character, mechanism and formation
- 7. What is cardiac cycle? Describe the various phares of cardiac cycle
- 8. What is an E.C.G.? Describe the significance of each wave in normal E.C.G.
- 9. Describe cardiac out-put in detail and factors affecting of it
- 10. Define blood pressure, and explain different physiological factors affecting it
- 11. Describe in detail the properties of cardiac muscles

RESPIRATORY SYSTEM

- 12. Describe different types of hypoxia
- 13. Desribe transport of oxygen
- 14. Describe chloride shift
- 15.Describe breuer reffex
- 16.Transport of Co 2

BODY TEMP & REGULATION

- 17. Describe the mechanism of body temp in human being
- 18. Describe the mechanism of heat gain and heat loss
- 19. Define pyrexia and write in brief about hypothermia

Q.5.,6,&7 Long answer question

1X20=20

System: (Blood, C.V.S., Respiratory and body temperature)

Blood

1)Describe coagulation along with following head

- a)factors
- b)intrinsic mechanism
- c)extrinsic mechanism
- d)factor accelerating and inhibiting

2)write down in detail the blood group under following head

- a)ABO system
- b)Rh blood group
- c)Rh negative mother
- d) hazards of mismatched blood transfusion

3)describe erythropoesis under following head

- a)erythropoesis in intra uterine life
- b)stages of erythropoesis
- c)factors essencials for erythropoesis
- d)megaloblastic anaemia

4. State detail of leucopoiesis on following head

- a) Intra uterine life
- b) Stages of development
- c) Factor affecting
- d) Applied physiology

RESPIRATORY

- 1) Describe lung volume and capacity under following head.
 - a) Tidal Volume & Residual Volume
 - b) Inspiratory Reserve Volume & Expiratory Reserve Volume
 - c) Lung Capacity
 - d) Diagrammatic representation of Lung Volume & Capacity

2) Describe Respiration under following head.

- a) Definition of respiration
- b) Type of respiration
- c) Parts come under respiration
- d) Mechanism of respiration

3, describe transport of O2 & co2 under following head

- a) Transport of oxygen
- b) At Alveoli level
- c) Transport of carbondioxide
- d) Explain chloride shift

C.V.S.

1. Describe the five junction tissue of heart under following head

- a) Pace maker
- b) A.V. Node
- c) Bundle of his
- d) Purkinje fibres

2. Describe the blood pressure under following head

- a) Define blood pressure
- b) Types of blood pressure
- c) Factors affecting blood pressure

- d) Normal values of blood pressure at different age group
- 3. Describe the radial pulse under following head.
 - a) Define radial pulse
 - b) Types of radial pulse
 - c) Factor's affecting radial pulse
 - d) Explain normal wave for radial pulse
- 4. Describe cardiac cycle with following head
 - a) Definition
 - b) Events
 - c) Cardiac Sounds
 - d) Factor affecting

BODY TEMP & REGULATION

- 1. Describe the body temp under following head.
- a) Body temp in human being and its monitoring
- b) Heat gain and heat loss mechanism
- c) Pyrexia
- d) Brief about hypothermia
- 2. Describe thermo regulation with following points
 - a) Thermogenesis
 - b) Thermolysis
 - c) Physical and behavioral changes in Hot and cold atmosphere
 - d) Applied physiology.