Q.P.Code:1379 REG. NO:……..

FIRST YEAR M.SC. PHYSIOLOGY DEGREE EXAMINATION
(FOUNDATION COURSE)

MODEL QUESTION PAPER

Time: 3 hrs **Max. Marks:- 70**

PAPER I- ANATOMY

- ***Answer all the questions***
- ***Draw diagrams wherever necessary.***

Essay: **(2x10=20)**

1. Enumerate the parts of brain. Discuss in detail the glyri and sulci and functional areas of superolateral surface of cerebral hemisphere.
2. Write in detail about the external and internal features of the kidney. Add a note on its development.

Short Notes: **(6x5=30)**

3. Right atrium
4. Stomach
5. Bronchopulmonary segments.
6. Supports of uterus and its applied aspects
7. Trachea
8. Placenta

Answer Briefly: **(10X2=20)**

9. Cornea
10. Lumbar puncture
11. Sternum
12. Down's syndrome
13. Arch of aorta
14. Waldeyer's lymphatic ring
15. Pleura
16. Microscopic anatomy of pituitary gland
17. Fibrous joints
18. cardiac muscle

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Q.P.Code:2379 REG. NO:……

FIRST YEAR M.SC. PHYSIOLOGY DEGREE EXAMINATION
(FOUNDATION COURSE)

MODEL QUESTION PAPER

Time: 3 hrs **Max. Marks:- 70**

PAPER II - BIOCHEMISTRY

- ***Answer all the questions***
- ***Draw diagrams wherever necessary.***

Essay: **(2x10=20)**

1. Name the factors affecting the enzyme activity. Describe any two of them. What is Km2. What are its significances. (1+6+1+2=10marks)

2. Describe the metabolism of phenylalanine and Tyrosine. What are the inborn errors associated with their metabolism. (6+4 = 10 marks)

Short Notes: **(6x5=30)**

3. Secondary and tertiary structure of proteins.

4. Significances of HMP shunt pathway.

5. Fatty acid synthase complex.

6. Haem degradation.

7. Anaplerotic reactions in TCA cycle

8. Biological functions of folic acid

Answer Briefly: **(10X2=20)**

9. Differences between RNA and DNA

10. Define ureaclearence

11. Beer-Lambert law

12. Restriction endonucleases

13. Name the plasma buffers

14. Sources and requirement of iron

15. Carbon sources of purine ring

16. Physiological uncouplers

17. Functions of Very Low Density Lipoprotein

18. Chemistry of Benedict's test

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Q.P.Code:3379 REG. NO:……..

FIRST YEAR M.SC. PHYSIOLOGY DEGREE EXAMINATION
(FOUNDATION COURSE)

MODEL QUESTION PAPER

Time: 3 hrs **Max. Marks:- 70**

PAPER III - PHYSIOLOGY

- ***Answer all the questions***
- ***Draw diagrams wherever necessary.***

Essay: **(2x10=20)**

1. Describe hoe oxygen is transported in the blood from lungs to tissue, with the help of an oxygen haemoglobin dissociation curve (ODC). Explain the factors which shift the ODC to the right. (5+2+3=10 marks)

2. Define stroke volume and cardiac output giving the normal values. Discuss how stroke volume is regulated. (4+6 = 10 marks)

Short Notes: **(6x5=30)**

3. Water reabsorption in the renal tubules
4. Regulation of aldosteroe secretion
5. Changes taking place in the uterine endometrium during different phases of the menstrual cycle.
6. Composition and functions of pancreatic juice
7. Intrinsic mechanism of blood coagulation & name two anticoagulants used in the laboratories.

Answer Briefly: **(5X4=20)**

8. Function of Cerebellum
9. Refractive errors of the eye and their correction
10. Acromegaly
11. Excitation contraction coupling
12. Reflex action

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