

**Model Question Paper**  
**Zoology-Human Physiology - Part IV**  
12th Standard

**Biology**

Reg.No. : 

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- I. Answer all the questions.
- II. Use Blue pen only.
- III. Question No 18 is compulsory.

Time : 01:15:00 Hrs

Total Marks : 85

**Section-A**

5 x 1 = 5

- 1) The amount of urea present in blood is  
(a) 0.02gms/100ml (b) 0.06gms/100ml (c) 0.08gms/100ml (d) 0.01gms/100ml
- 2) Urea biosynthesis takes place in  
(a) blood (b) liver (c) cerebro-spinal fluid (d) kidney
- 3) Number of ATP molecules spent to convert ammonia to urea is  
(a) four (b) two (c) three (d) one
- 4) During glomerular filtration the malpighian body acts like a  
(a) structural unit (b) biological filter (c) biological buffer (d) acid-base balancer
- 5) The amount of blood supplied to the kidneys is about  
(a) 20-25% of cardiac output (b) 25-30% of cardiac output (c) 30-35% of cardiac output (d) 35-40% of cardiac output

**Section-B**

4 x 3 = 12

- 6) Define the term physiotherapy .
- 7) What does the term orthopedics refer to?
- 8) Name the fluids in the chambers of the eye.
- 9) Name the parts involved in altering the curvature of the lens.

**Section-C**

5 x 5 = 25

- 10) Describe different types of arthritis.
- 11) Describe the structure of sarcomere.
- 12) What are the benefits of aerobic exercise?
- 13) Write down the various types of memory.
- 14) "Sleep is a state of unconsciousness"-substantiate your statement.

**Section-D**

4 x 10 = 40

- 15) Enumerate the events involved in the functioning of the human heart.
- 16) Write an essay on composition of blood.
- 17) Describe the various functions of the human male reproductive system.
- 18) a) Write an essay on menstrual cycle.

(OR)

- b) Comment on various schemes suggested by the National Family Welfare Programmes and their importance.

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