

Total No. of Printed Pages – 3

**SS/BSN-1/AP/02-22**

**2 0 2 2**

( February )

**ANATOMY & PHYSIOLOGY**

*Full Marks : 75*

*Time : 3 hours*

*The figures in the margin indicate full marks  
for the questions*

- Answer **all** questions

*Write the answers to the two Halves  
in separate books*

**FIRST HALF**

1. What are the different parts of urinary system? Describe briefly the kidney with suitable diagram. 2+8=10
2. Describe briefly the liver under following headings: 1+2+5+2=10
  - (a) Location
  - (b) Lobes of liver
  - (c) Porto systemic anastomosis
  - (d) Clinical correlation

*( Turn Over )*

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3. Write short notes on : (any four) 4x3=12  
(a) Arterial supply of the heart.  
(b) Brainstem.  
(c) Tongue.  
(d) Pituitary gland.  
(e) Paranasal air sinuses
4. Fill in the blanks : 5x1=5  
(a) The mucosa of esophagus is lined by \_\_\_\_\_ epithelium.  
(b) Two subdivisions of autonomic nervous system are sympathetic and \_\_\_\_\_.  
(c) The karyotyping of Turner's syndrome is 45XO and karyotyping of Klinefelter's syndrome is \_\_\_\_\_.  
(d) \_\_\_\_\_ secretes hormone that regulates blood glucose level.  
(e) The photoreceptor for dark vision is \_\_\_\_\_.

SECOND HALF

5. Name the cell which secretes Hcl in the stomach. Describe the mechanism of Hcl secretion in stomach with a suitable diagram. Write briefly on peptic ulcer. 1+6+3=10
6. Name the hormones secreted from the thyroid gland. What are the functions of the thyroid hormones? Write briefly about hypothyroidism? 3+4+3=10
7. Write short notes (any three) : 2x3=6  
(a) Erythropoiesis.  
(b) Cerebrospinal fluid (CSF)  
(c) Diabetes mellitus  
(d) Ovulation
8. Differentiate between the following: 2x3=6  
(a) Adult haemoglobin and Fetal haemoglobin.  
(b) Axon and dendrites.  
(c) Gigantism and acromegaly.

*Continued*

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9. Fill in the blanks:

1x6=6

- (a) Normal GFR is \_\_\_\_\_ ml.
- (b) Na+K+ATPase pump is a \_\_\_\_\_ active transport.
- (c) Growth hormone is secreted by \_\_\_\_\_ gland.'
- (d) The largest salivary gland is \_\_\_\_\_.
- (e) The structural and functional unit of the Kidney is \_\_\_\_\_.
- (f) Normal body temperature is \_\_\_\_\_.

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