

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]
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B. Pharmacy 3rd Semester Examination
Anatomy Physiology & Health Education-II (O.S.)
HBP-209

Time : 3 Hours

Max. Marks : 80

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt Five questions in all, select one question each from Section A, B, C and D. Section E (Question 9) is compulsory.

SECTION - A

1. (a) Write a note on composition and function of gastric juice. (4)
- (b) Write in brief (with diagram) the gross feature of liver. (4)
- (c) Draw a neat diagram of digestive system. Describe physiological role of stomach along with their secretion. (8)
2. (a) Write a note on exchange of gases. (4)
- (b) Enlists the functions of each part of respiratory system. (4)
- (c) Describe the functional anatomy of respiratory system. (8)

SECTION - B

3. (a) How are cranial nerves named and numbered? (4)

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- (b) What is synapse? Describe its properties. (4)
 - (c) Compare the anatomical components of the sympathetic and para sympathetic divisions of autonomic nervous system. (8)
4. (a) Describe gross anatomy of spinal cord. (4)
- (b) Briefly describe the structure of nephron. (4)
 - (c) Describe the physiology of urine formation. (8)

SECTION - C

5. (a) Write a note on microscopic structure of ovary. (4)
- (b) Describe the principal events of spermatogenesis. (4)
 - (c) Describe the location, histology and hormones of thyroid gland. (8)
6. (a) Write a note on mechanism of hormone action. (4)
- (b) Write a note on gross anatomy of ear. (4)
 - (c) Describe the physiology of vision. (8)

SECTION - D

7. (a) Write a note on purification of water. (4)
- (b) Antibiotic are not effective in viral diseases. Nevertheless they are prescribed by the physicians. Why? (4)
 - (c) Discuss causative agents, mode of transmission and prevention of AIDS. (8)
8. (a) Write a note on family planning. (4)
- (b) Describe the importance of vitamins. (4)

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- (c) Give an account on emergency treatment of burn, fracture and poisoning. (8)

SECTION - E

9. Write short note on the following:

- (a) Membrane potential.
- (b) Respiratory membrane.
- (c) Neurotransmitters.
- (d) First Aid.
- (e) Acid-base balance.
- (f) Respiratory volume & Respiratory capacity.
- (g) C.S.F.
- (h) Creatinine clearance.

(2×8=16)