[Total No. of Questions - 9] [Total No. of Printed Pages - 3] (2124)

1687

B. Pharmacy 3rd Semester Examination Anatomy Physiology & Health Education (OS) HBP-209

Time: 3 Hours

Max. Marks: 80

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

Note: Answer five questions in all, attempting one question each from Sections A, B, C and D. Section E is compulsory. All questions carry equal marks.

SECTION - A

- (a) Describe the composition of pancreatic juice and functions of its various components.
 - b) Discuss the physiology of liver. (8)
- (a) Write a note on various respiratory volumes and capacities.
 - (b) Describe the physiology of exchange of gases in respiratory system. (8)

SECTION - B

- (a) What is reflex arc? With the help of neat diagram show various components of reflex arc.
 (8)
 - b) Write a note on cranial meninges. (4)
 - (c) Where is hypothalamus located? Explain some of its major functions. (4)

4	(a)	Describe	the	structure	and	functions	of	nephron.	(8)
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- (b) What are the principal differences between somatic nervous system and autonaumic nervous system? (4)
- (c) Define an autonomic reflex and give three examples.

SECTION - C

- 5. (a) Describe the principal events of spermatogenesis. (
 - (b) Describe the histology of uterus. (4)
 - (c) What are the hormones produced by anterior pituitary gland? What are their main functions? (8)
- 6. (a) Describe the structure of olfactory receptors. What is the function of basal cell? (8)
 - (b) Describe the clinical symptoms of diabetes mellitus and hyperinsulinemia. Distinguish between the types of diabetes mellitus. (8)

SECTION - D

- 7. (a) write notes on: (16)
 - (i) Chickenpox
 - (ii) Measles
 - (iii) Influenza
 - (iv) Diptheria
- 8. (a) Describe various methods of contraception in females.
 - (b) Describe in detail about the components of balanced diet. (8)

SECTION - E

- 9. Write Short notes on the following:
 - (a) Jaundice
 - (b) Asthma
 - (c) Blood Brain Barrier
 - (d) Cell respiration
 - (e) Hormones
 - (f) Goitre
 - (g) Ear ossicles
 - (h) Communicable and non communicable diseases.

 $(2 \times 8 = 16)$