

20 NOV 2015

(17)

SE/BM/CBAS/HAP.

Q.P. Code : 5073

(3 Hours)

[ Total Marks : 80

- N.B. : (1) Question No. 1 is compulsory.  
 (2) Answer any three out of remaining five questions.  
 (3) Draw diagrams wherever necessary.  
 (4) Figures to the right indicate full marks.

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|--------|--|----|
| 1. (a) | Differentiate systemic & pulmonary circulation.                            | 5  |
| (b)    | Explain the steps of coagulation.  | 5  |
| (c)    | Explain the composition of blood.  | 5  |
| (d)    | Explain the functions of skin.   | 5  |
| 2. (a) | Which are the different lobes of cerebrum ? List functions of each lobe ?  | 10 |
| (b)    | Explain the process of urine formation & mention the composition of urine. | 10 |
| 3. (a) | Classify epithelial tissue & state their functions.                        | 10 |
| (b)    | Explain the mechanics of respiration.                                      | 10 |
| 4. (a) | List endocrine glands & state their secretion & functions.                 | 10 |
| (b)    | Describe the structure of stomach & state its function.                    | 10 |
| 5. (a) | Describe the conduction system of heart.                                   | 10 |
| (b)    | Explain the physiology of hearing.   | 10 |
| 6. (a) | Explain the structure of ear with a neat diagram.                          | 8  |
| (b)    | State the accessory organs of the digestive system & their functions.      | 6  |
| (c)    | What is the composition of bile ?  | 6  |