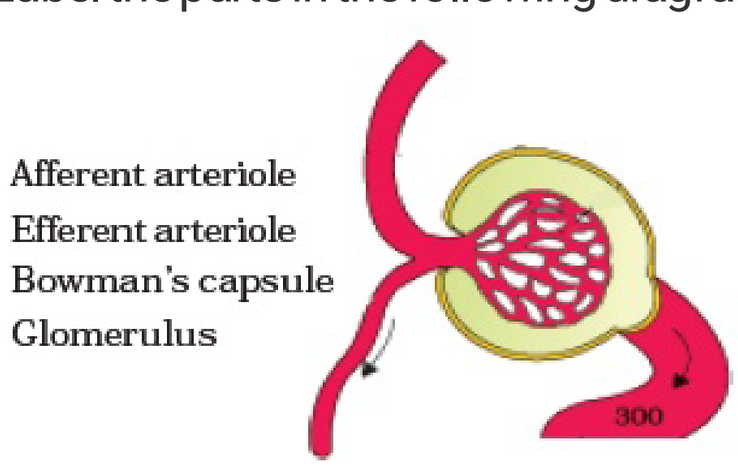
	BCM SCHOOL BASANT AVENUE, DUGRI LUDHIANA **XI BIOLOGY ASSIGNMENT**
1	**Which of the following statements is incorrect?** **a. ADH—prevents** conversion **of angiotensinogen in blood to angiotensin** **b. Aldosterone—facilitates water reabsorption** **c. ANF—enhances sodium reabsorption** **d. Renin—causes vasodilation**
2	**Assertion: Atrial Natriuretic Factor acts as a check on the renin-angiotensin mechanism** **Reason: ANF can cause vasodilation (dilation ofblood vessels) and thereby decrease the blood pressure**
3	**Sort the following into actively or passively transported substances during reabsorption of GFR:** glucose, aminoacids, nitrogenous wastes, Na^+, water
4	**Name the following.** **(a) A chordate animal having flame cells as excretory structures.** **(b) Cortical portions projecting between the medullary pyramids in the human kidney.** **(c) A loop of capillary running parallel to the Henle's loop.**
5	Label the parts in the following diagram. 
6	Match the abnormal conditions given in Column A with their explanations given in Column B and Choose the correct option Column A — Column B A. Glycosurea — i. Accumulation of uric acid in joints B. Renal calculi — ii. Inflammation in glomeruli C. Glomerular nephritis — iii. Mass of crystallised salts within the kidney D. Gout — iv. presence of glucose in urine **Options:** a. A-i, B-iii, C-ii, D-iv b. A-iii, B-ii, C-iv, D-i c. A-iv, B-iii, C-ii, D-i d. A-iv, B-ii, C-iii, D-i

7	**Match the terms given in Column I with their physiological processes given in Column II and choose the correct answer** Column I — Column II A. Proximal convoluted tubule — i. Formation of concenterated urine B. Distal convoluted tubule — ii. Filtration of blood C. Henle's loop — iii. Reabsorption of 70-80% of electrolytes D. Counter-current mechanism — iv. Ionic balance E. Renal corpuscle — v. maintenance of concentration gradient in medulla **a. A-iii, B-v, C-iii, D-ii, E-i** **b. A-iii, B-iv, C-i, D-v, E-ii** **c. A-i, B-iii, C-ii, D-v, E-iv** **d. A-iii, B-i, C-iv, D-v, E-ii**
8	**a. Diuretics, _____, enhance losses of water and salt via the urine through interference with normal _____ mechanisms** **b. Diabetes insipidus is developed due to the non- production of _____ and the individual passes _____ litres of urine in 24 hours.**