



THE GURUKUL INSTITUTE

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## BODY FLUIDS and CIRCULATION

1. Objective type question: -

a) Universal recipient blood group is:-

- i) A                      ii) AB                      iii) B                      iv) O

b) Arteries are:-

- i) Thin walled and blood flows under diminished pressure.  
ii) Thick walled and blood flows under high pressure.  
iii) Thin walled and blood flows under high pressure.  
iv) Thick walled and blood flows under diminished pressure.

c) Thrombocytes occur in vertebrates in:-

- i) blood and imparts red color  
ii) blood and important for clotting  
iii) Liver and initiate secretion  
iv) Stomach and digest proteins

d) RBC's are destroyed in:-

- i) Liver                      ii) Pancreas                      iii) Spleen                      iv) Stomach

e) In normal adult man B.P. is:-

- i) 100/80 mm of Hg                      ii) 120/80 mm of Hg  
iii) 100/120 mm of Hg                      iv) 80/120 mm of Hg

f) O blood group is universal donor because the blood has:-

- i) Antigen A                      ii) Antigen B                      iii) Both Antigens A and B  
iv) No Antigens

g) Number of leucocytes present in one mm<sup>3</sup> of blood is

- i) 6000 – 8000                      ii) 2000 – 3000                      iii) 8000 – 13000                      iv) 1 million – 1.5 million

h) Typical 'lub – dub' sounds heard in heart beat are due to

- (i) closing of bicuspid and tricuspid valves  
ii) closing of semilunar valves  
iii) closing of bicuspid – tricuspid valves followed by semilunar valves  
iv) Blood under pressure through ventricle

I) Origin of heart beat and its conduction is represented by

- i) AV node – Bundle of His – SA node – Purkinje fibres  
ii) SA node – Purkinje fibres – AV node – Bundle of His  
iii) Purkinje fibres – AV node – SA node – Bundle of His  
iv) SA node – AV node – Bundle of His – Purkinje fibre

j) Value of Cardiac output is –

- i) Auricular volume × ventricular volume  
ii) Stroke volume × Rate of heart beat  
iii) Blood pumped in one minute  
iv) Both (ii) and (iii)

2. Write the difference between

- i) blood and Lymph  
ii) Open and closed system of circulation  
iii) Arteries and Veins

iv) Angina and Heart Failure

3. What is Erythroblastosis foetalis?

4. Describe human excretory system call its parts with diagram?

5. Human heart is myogenic, why?

6.(i) Define cardiac cycle?

(ii) What is double circulation?

7. Draw a standard ECG and explain the different segments in it