CLASS XI BIO CH 15

Set 2 – 50 MCQs (Body Fluids and Circulation)

1 Which of the following is the fluid part of blood without clotting factors? a) Serum b) Plasma c) Lymph d) Cytoplasm
2Which blood cell does not contain a nucleus? a) RBC b) WBC c) Monocyte d) Lymphocyte
3 Haemoglobin is present in – a) RBC b) WBC c) Platelets d) Plasma
4Which of the following is not a formed element of blood? a) RBC b) WBC c) Platelets d) Plasma
5 The percentage of formed elements in blood is approximately – a) 25% b) 35% c) 45% d) 55%
6 Erythrocytes are formed in – a) Liver b) Spleen c) Red bone marrow d) Kidney
Which of the following is a granulocyte?a) Lymphocyte b) Monocyte c) Neutrophil d) All of these
8 Which WBC is least in number? a) Neutrophil b) Eosinophil c) Basophil d) Monocyte
Which WBC secretes histamine and causes inflammation?a) Basophil b) Eosinophil c) Neutrophil d) Monocyte
10 Which WBC helps in immunity? a) Lymphocyte b) Eosinophil c) Basophil d) Neutrophil
11 Which is known as thrombocytes? a) RBC b) WBC c) Platelets d) Plasma
Platelets are derived from – a) Erythroblasts b) Megakaryocytes c) Monocytes d) Lymphocytes
13 The number of platelets per mm³ of blood – a) 15,000–35,000 b) 1,50,000–3,50,000 c) 10,000–12,000 d) 6,000–8,000
14 Which ion plays a vital role in blood clotting? a) Na ⁺ b) K ⁺ c) Ca ²⁺ d) Mg ²⁺

15 Which organ destroys old RBCs? a) Liver b) Spleen c) Kidney d) Lungs 16 Blood without clotting factors is called – a) Serum b) Plasma c) Lymph d) Water 17 Which of the following is not present in plasma? a) Water b) Proteins c) RBC d) Glucose 18 Which of the following is called the body's "defence cells"? a) RBC b) WBC c) Platelets d) None 19 Antibodies are mainly present in – a) RBC b) Plasma c) Platelets d) None 20 The normal haemoglobin content in human blood is a) 5-8 g/100 mL b) 9-11 g/100 mL c) 12-16 g/100 mL d) 17-20 g/100 mL 21 Which blood group has both A and B antigens? a) A b) B c) AB d) O 22 Which blood group has no antigens? a) A b) B c) AB d) O 23 Which blood group has both anti-A and anti-B antibodies? a) A b) B c) AB d) O 24 Rh factor is named after – a) Rabbit b) Rhesus monkey c) Rat d) Rhinoceros 25 Rh-negative mother and Rh-positive foetus can cause – a) Anaemia b) Erythroblastosis foetalis c) Leukopenia d) Hypertension 26 In blood clotting, prothrombin is converted into – a) Fibrin b) Thrombin c) Fibrinogen d) None 27 The enzyme that converts fibringen into fibrin is – a) Thrombin b) Pepsin c) Amylase d) Renin 28 Clotting of blood is prevented by a) Heparin b) Fibrin c) Calcium d) Platelets 29 Blood circulation is discovered by a) William Harvey b) Leeuwenhoek c) Aristotle d) Darwin 30 Lymph is formed from a) Plasma b) RBCs c) Water d) Platelets 31 Lymph is rich in – a) RBC b) WBC (lymphocytes) c) Platelets d) None

32 Fats are absorbed into the lymph through – a) Lacteals b) Capillaries c) Arteries d) Veins								
33 Heart is made up of – a) Skeletal muscles b) Smooth muscles c) Cardiac muscles d) Voluntary muscles								
34 The heart is enclosed in – a) Pleural membrane b) Pericardium c) Peritoneum d) None								
35 The wall separating left and right atria is – a) Interatrial septum b) Interventricular septum c) Atrio-ventricular septum d) None								
36 Which valves prevent backflow of blood into atria? a) Tricuspid and Bicuspid b) Semilunar c) Aortic d) None								
37 Which valve prevents backflow from aorta to ventricle? a) Aortic semilunar valve b) Pulmonary valve c) Tricuspid d) Bicuspid								
38 The pacemaker of the heart is – a) SAN b) AVN c) Bundle of His d) Purkinje fibres								
39 The bundle of His divides into – a) Two branches b) Three branches c) Four branches d) Many fibres								
40 Average human heartbeat per minute – a) 50 b) 70–75 c) 90 d) 100								
41 Duration of one cardiac cycle is – a) 0.6 s b) 0.8 s c) 1.0 s d) 1.2 s								
42 Cardiac output = a) Stroke volume × Heart rate b) Heart rate × Blood pressure c) Pulse rate × Volume d) None								
43 Stroke volume is – a) Volume of blood pumped per beat per ventricle b) Volume of blood per minute c) Volume of blood in arteries d) Volume in lungs								
44 First heart sound "lub" is caused by – a) Closure of atrioventricular valves b) Closure of semilunar valves c) Opening of valves d) Ventricular contraction								
45 Second heart sound "dub" is caused by – a) Closure of semilunar valves b) Closure of bicuspid c) Opening of tricuspid d) Relaxation								

46 P-wave of ECG represents –
a) Atrial depolarisation b) Ventricular depolarisation c) Repolarisation d) None

- 47 QRS complex represents –
- a) Ventricular depolarisation b) Atrial repolarisation c) Ventricular repolarisation d) None
- 48 T-wave represents –
- a) Repolarisation of ventricles b) Depolarisation of atria c) None d) Contraction of atria
- 49 Pulmonary circulation carries –
- a) Deoxygenated blood to lungs b) Oxygenated blood to tissues c) Deoxygenated to tissues d) Oxygenated to lungs
- 50 Coronary arteries supply blood to –
- a) Brain b) Heart muscles c) Liver d) Lungs

Answers – Set 2

Q	Ans								
1	а	2	а	3	а	4	d	5	С
6	С	7	С	8	С	9	а	10	а
11	С	12	b	13	b	14	С	15	b
16	а	17	С	18	b	19	b	20	С
21	С	22	d	23	d	24	b	25	b
26	b	27	а	28	а	29	а	30	а
31	b	32	а	33	С	34	b	35	а
36	а	37	а	38	а	39	а	40	b
41	b	42	а	43	а	44	а	45	а
46	а	47	а	48	а	49	а	50	b