

## Mid HLS

1- Patient has hb- hct- but mcv and others normal with low reticulocytes;  
-Myelophthisic anaemia

2- Patient has hb-hct- haptoglobin- reticulocyte-  
-hemolytic anemia

3- One is megaloblastic anaemia;  
-B12 deficiency

4-Main function of monocytes and neutrophils?  
-Phagocytosis

5- Which is true about erythroblastosis fetalis?  
-Father must be rh positive

6- Fals about erythroblastosis?  
-Cannot affect the first baby.

7- which one is true about Change in stored blood?  
Increased  $k^+$

8- Beta thalassemia associated with?  
Decrease hba increase hbf

9- which is wrong about thymus?  
lobes and complete lobules

10- RBCs removed from circulation from ?  
marginal zone

11- cd is present on ;  
different types of lymphocytes

12- microglia refers to  
neutrophils

13- true about spleen;  
A- has crypts  
B- has concentric reticular epithelial cells  
C- lymphatic sheath

14- lymphocytes enter lymph nodes through?  
High venules in paracortex

15- hematopoiesis in adult occur in:  
red bone marrow

16- false about innate immunity;  
they act slowly

17- the lymphocyte stem cells proliferate in?  
Bone marrow

18- RBCs crenation occur in;  
hypertonic solution

19- hemophilia A is caused by deficiency of?  
factor viii

20- most common intracellular membrane defect?  
hereditary spherocytosis

21- the last two enzymes that prepare tetrapyr for iron addition are?  
coproporphinogen oxidase and protoporphinogen oxidase

22- woman has heterozygous sickle cell anemia, heterozygous hemoglobin c disease and thalassemia minor?  
HbS/C α/αα..

23. one of largest plasma proteins ...?  
α<sub>2</sub> macroglobulin

24- heparin is administered by?  
-iv infusion

25- all are contraindications of heparin except?  
-pneumonia

26- all prevent clot by decrease calcium except;  
-K<sup>+</sup> oxalate

27- all are true drug-toxicity except?  
-vincristine-myelotoxic

28-false about methotrexate?  
-inhibit tetrahydrofolate reductase enzyme

29-which drug cause increase polymerization of tubulin?  
- paclitaxel

30- wrong statement regarding immunosuppressants;  
-cyclosporin is 100 times more potent than tacrolimus

31- oral folic acid dose is;  
1mg/day

32- True about yersinia pestis?  
- use hms system to secrete their proteins

33- False about yersinia?  
-it hemolyze blood

34- All are true regarding impracticability of eradication of q fever except?  
-difficult diagnosis

35- False regarding p.falciparum?  
-Paroxysm every other day

36- Wrong statement about trypanosoma?  
-vector is sandfly

37- Centrifugally growing papular lesion with central crust leaves permanent scar caused by?  
L.tropica

38- Cause salmonella septicemia?  
-s.choleraesuis

39- Chronic and asymptomatic patient of salmonella diagnosed by?  
-Fecal culture

40 - What disease has this; 1-5 aborted ,8-10 serious brain and eye dmg..?  
-toxoplasmosis

41- Antibody in ebv?  
-heterophile