1-mismatching: serotonin-threonine

2-wrong about PKU: deficiency of PKU carboxylase

3-true about conversion Mono to Di: base specific Mono the general Di

4-lesch-nyhan syndrome : deficiency of HGPRT

5-hydroxyurea & RR: inhibit thus treatment of leukemia cancer

6-wrong about purine degradation: nucleosidases remove phosphate group

7-true about gout: urate crystals in joints

8-wrong about porphyrins synthesis: Fe addition by ferrochelatase (it just enhance spontaneous adding)

9-true about heme degradation: conjugation to glucuronic acid to increase solubility

10-true about Jaundice: newborns have deficiency of glucuronyltransferase

11-wrong about MOE: it's the only enzyme in catecholamines degradation

12- mismatching: purine-ribose adding lately // pyrimidine-ribose adding firstly

13-WRONG about purine degradation pathway? Purine degradation results in beta alanine & beta hydroxybutyrate

14-True about methionine >> can be regenerated from homocysteine in the presence of B12

15-True about pancreatic lipase? Deficiency affect el degradation not absorption

16-Non-essential AA..??

17-True about salvage pathway >> GLY can be synthesized from serine and THF will be the hydroxyethyl acceptor

18-All are inhibitors of purines and pyrimidine Synthesis Except >> PRPP

19-Deficiency of cystathionine synthase diagnosis >> homocystinurea

20-True about folate 1. It is active form is THF 2. C5 and /or C10 r the methyl carriers

21-True statement proline, Leu, isoleucine are derived from keto acids?

22-Conversion from glutamate to glutamine what is the wrong statement? It affects el conversions from Glu to alpha ketoglutarate

23-wrong about ubiquitin-proteasome pathway: both ubiquitin & target protein are degraded.

24-true about protein degradation & absorption: AA's are absorbed into portal system

25-wrong about urea cycle: happens in mitochondria

26-mismatching: serine-Glu-ketogenic

27-something true about folic acid: THF is the activated form

28-something true about nonessential AA's: Gly from Ser & THF accepts (C-OH)

29-activator for both purine & pyrimidine synthesis: PRPP

30-Mismatch pairs, each AA with its precursor:

A. Tyrosine - melanin

B. Tyrosine - norepinephrine

C. Threonine -serotonin

D.histidine -histamine

E. arginine and glycine, creatine

Answer C