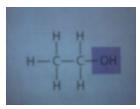


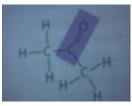
Biology Final 2012/2013

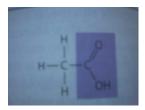
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1 what is the reason of cohesiveness water?
.a)Hydrogen bond b) ionic bond
2 the bonds in water molecule are?
a) Ionic bonds b) covalent bonds c) hydrogen bonds
3) oxidation of 1 fadh2 will give usATP?
a) 1.5 b) 2.5 C)3
4) many times must Calvin cycle be repeated to give 1 G3P?
a) 1 b) 2 c) 3
5) the reason of the difference in amino groups?
a) R group connect to c
b)R group connect to α c
c) side chains
6) match
franklin : model of DNA
chargaff : said that the amount of A=t and C=G

- 7) how many ATP are made by substrate level phosphrylation in glycolysis and cytruc acid cycle?
- a) 4 b) 6 c) 32
- 8) what is the molecule which has carbonyl group?
- 9) what is the molecule which has carboxylic group?







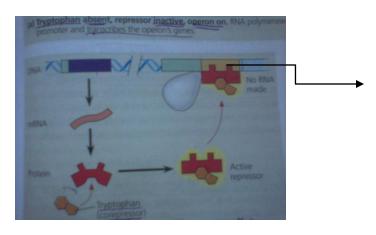
11) According to this figure answar these Qs:



The name of this cycle ???

- a) lytic b) lysogenic
- the name of viruses that attend this is named as? (type of phages)
- a) temperate b) virulent
- 12) the space out of thylakoids when there are transport of e via ETC is?
- a)acidic compared with inside b) basic compared with inside

13) according to this figure



- 1) the name of the this "operator
- 2)- the acactivator of the opressor?
- a). tryptophan b) allolactose
- 14) chlolrophyll 1 has a?

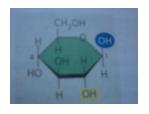
Ch3 or iron or magnesiuon or hydrocarbon tail

- 15) which of the following in not involved in synthesizing okazaki fragments of DNA?
- a) DNA ligase b)primase c)DNA pol III
- 16) of these is a property of H2O?

loses and gains heat slowly

17)

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1)the 2 molecules that r used for synthesizing fat?

2- the monomer of cellulose is?

18) one of these is not correct about DNA?

spirilli twist

19) one of these is correct about saturated fatty acid?

Butter is one of them

20) the name of the structure



21) The reason of sickle sick disease in hemoglobin?

The mutant hemoglobin has a valine istead of glytamic acid

22) which of these are pyrimidines?

C,U

- 23) what is the codon of the amino acid Methonine in mRNA?
- 24) one of these is common between plant and animal cell ?mitochondria
- 25) u have the pic of tRNA and u r asked :
- 1- about the name of it
- 2- it can bind to the ribosomes in : E , P , A , all of them?

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26) u have a pis of a reaction and u are asked to calculate Ea?

27) pic (b) page (237), what is it?

28)in bacteria DNA, there isn't?

poly a tail and 5 cap

29) the mean of splicing?

30) the initiation complex does not have?

snRNP

- 31) the enzyme which is responsible of binding tRNA to the suitable amino acid is?

 An aminoacyl tRNA synthetase
- 32) what would happen if the nuclear lamina damage?

 Effect to the cell shape
- 33) what is true about convert pyruvat to acetyl coA? the fermentation
- 34) what is the function of reverse transcrptase?
 using RNA stand as a complementary stand for synthesizing DNA molecule what is the function of reverse transcrptase?

using RNA stand as a complementary stand for synthesizing DNA molecule

35) according to this figure



1-the ETC pumps H to?

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inter membrane space 36) the dimers in the DNA strand that is caused by (UV) light: thymine dimmers 37) organic molecules ...? Coenzymes 38) noncompetetive inhibitor picture: how this molecule affect enzyme activity? by altering enzyme shape 39) movement of organelles in the cell depends on : motor proteins and microtubules 40) what is true about pyruvate oxidation? takes place in the matrix of mitochondria, produces CO2 41) How do we get electrons for p680? spliting H2O 42) 1st step of gycolysis is enzymatically done by? kinase 43) The molecule which saves the solidifying of the membrane when the tempreture get low? cholesterol 44) which one of these molecules could cross the membrane quickly? small hydrophobic molevules 45) which one of these is mismatched? Na+, K+ pump - passive transport 46) cell shrivel when it's in: Hypertonic solution

Sara A Alhabees

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