

1) which trancriptional factor does release RNA polymerase from promoter?
A) TFIID
B) TFIIB
C) TFIIF
D) TFIIE
E) TFIIH
Answer: E
2) What is sequence at end of chromosome?
A) centromere
B) Telomere
C) Telomerase
D) kinetochore
Answer: B
3) DNA can be extracted from all of the follwings except:
A) blood

- B) cell lysate
- C) white blood cells
- D) red blood cells

Answer: D

4) if guanine forms 42% of total DNA nitrogenous bases, how much os the percentage of pyrimidine?	
A) 60%	
B) 50%	
C) 42%	
D) 40%	
E) 8%	
	Answer: B
6) Optimum temprature of pcr DNA POLYMERASE?	
A) 94°	
B) 72°	
C) 55°	
D) 32°	
	Answer: B
7) feotal bovine serum in PCR is used for?	
A) Frequent unfreezing-freezing at temperature - 20°	
B) dissolution of nucleic acids	
C) promotes specificity for hybridization	
D) stabilizing complex of primers and matrix	
	Answer: A
8) termination sequence of human chromosome?	
TTAGGG	

- 9) To sequester ca+2 and mg+2 required for nuclease activity?
- A) Proteinase k
- B) RNA guard
- C) Chaotropic salt
- D) EDTA

Answer: D

10) Steps of DNA extraction?

- A) Cell lysis, inactive endogenous nucleases, purification
- B) Purification, cell lysis, inactive endogenous nucleases
- C) inactive endogeous nucleases, cell lysis, purification
- D) inactive endogeous nucleases, purification, cell lysis
- E) cell lysis, purification, inactive endogenous nucleases

Answer: A

11) Od = .1 , dilution factor= 20 volume of RNA = 100 micro liter

Yield ??

- A) 8000 ng
- B) 8000 micro g
- C) 80ng\micro L
- D) 80Mg\ml

Answer: A

12) Correct about Tm?

- A) Separation of all DNA strand
- B) Tm increase with increase in AG
- C) Tm increase with increase in AT
- *D) Tm increase with increase in GC
- E) Tm increase with increase in TC

13) Function of zinc finger motif?

Maintain the tertiary structue of this domain

- 14) DNA recognition surface of helix turn helix proteins?
- A) Alpha 1
- B) Alpha 2
- C) Alpha 3
- D) Beta 1
- E) Beta 2

Answer: C

15) Incorrect?

Stacking of base pairs through van der waals and hydrogen bonds

- 16) A DNA, B DNA, Z DNA, 36 base pairs, which one is the tallest?
- A) A DNA
- B) Z DNA
- C) B DNA
- D) Both A DNA and B DNA
- E) all of them have the same length

Answer: B

17) Uridine ?

Uracil + ribose

- 18) Mental deficiency, cardiac anomalies, cleft lip?
- A) Patau syndrome
- B) Down syndrome
- C) Edwards syndrome
- D) Turner syndrome

Answer: A

19) 47,XX ,+21 ?

- A) Female with 21 extra chromosome, diagnosed with down syndrome
- B) female with 1 extra chromosme in pair 21, diagnosed with down syndrome

Answer: B

20) Monosomy?

- A) Loss of a single chromosome
- B) loss of a pair of chromosomes
- C) adding one single chromosome
- D) adding a pair of chromosomes

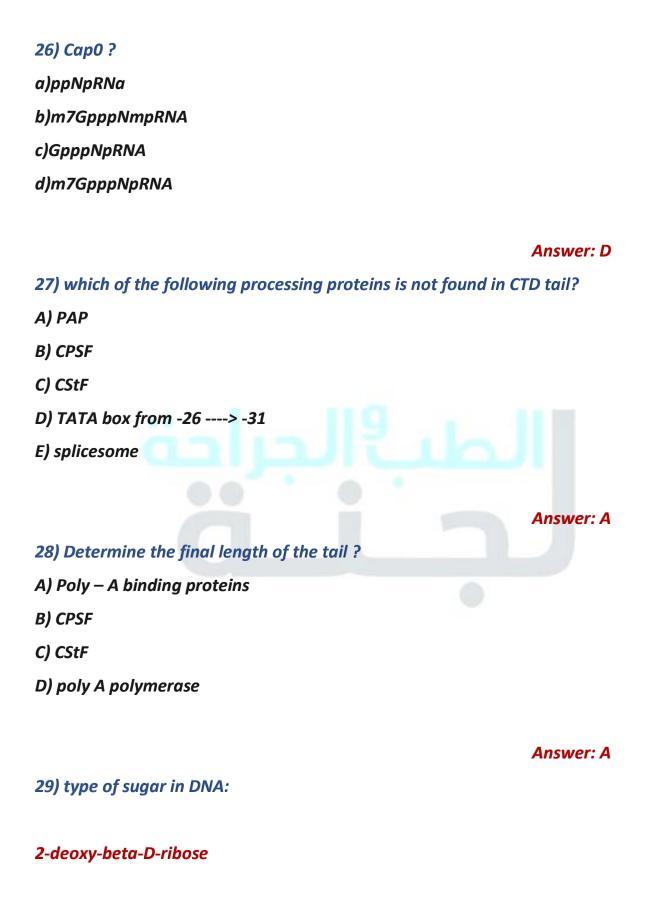
Answer: A

21) Tandem duplication?

- A) extra chromosome segment may be located immediately after the normal segment
- B) extra chromosome segment away may be located away from the normal segment
- C) extra chromsome segment may be located on another chromosome

Answer: A

22) Remove the RNA primer? A) primase B) Rnase H C) Ligase D) Helicase Answer: B 23) Wrong about cental dogma? A) RNA from DNA B) protein from RNA C) DNA from RNA D) protein fro. DNA E) RNA from protein Answer: E 24) Incorrect? A) RNA polymerase | .. tRNA B) RNA polymerase | | mRNA C) RNA polymerase | | miRNA D) RNA polymerase | | | tRNA E) RNA polymerase | | | 5s rRNA Answer: A 25) TFIID binds with? A) BRE B) Inr C) TATA box Answer: C



- 30) choose the wrong statement about phosphate group in DNA:
- A) it is phosphoric acid in origin
- B) 20H form phosphodiester bonds
- C) third OH is released making a negative charge on phosphate
- D) negative charge of phosphate leads to repulsion and destabilize the structure of DNA
- E) the fourth OH is released as a proton making the phosphate group acidic

Answer : E

- 31) ______is used to evaluate integrity of DNA, and _____is used to form a pellet from DNA.
- A) centrifuge, electrophoresis
- B) nanodrop, centrifuge
- C) electrophoresis, centrifuge
- D) electrophoresis, nanodrop
- E) centrifuge, nanodrope

Answer: C

32) an investigation done upon a virus shows the genetic material as, A33%, T22%, G22%, C33%

Which of the following is correct?

- A) A binds with C, while T binds with G
- B) virus has single stranded DNA
- C) It contains RNA instead of DNA
- D) virus uses human's DNA to build its DNA

Answer: B

33) which of the following is incorrect regarding bonds between nitrogenous bases in DNA?

- A) 6'C from G with 4'C from C
- B) 1'C from G with 3'C from C
- C) 2'C from G with 2'C from C
- D) 6'C from A with 4'C from T
- *E) 2'C from A with 2'C from T

Answer: E

يا رب؛ يا عُدتي لأيامي العصيبة، ويا أول من يخطر اسمه في قلبي حين أخاف وحين أؤمّل، ويا مَن يبقى لي حين لا يبقى لي ركنٌ أو أنيسٌ أو سميع؛ لا تُخلّني وحدي، ولا تكلني إلى نفسي، ولا تبعل حاجتي عند غيرك.
• شيماء سعد.

لا تنسونا من صالح دعائكم مع أمنياتنا بالتوفيق والنجاح #لجنة الطب والجراحة