

بسم الله الرحمن الرحيم

CELL BIOLOGY (Final- MERCY batch)

إعداد:



1- The two cells that produce from mitoses called :

- a) daughter cell
- b) sister cell

ANSWER: A

2- If one cell go in meiosis produce 8 daughter cells , what is the number of divisions ??

- a) 2
- b) 3
- c) 4

ANSWER: B

3- When you put group of blood cell in unknown solution , you notice that the cells are lysed . This tell you this unknown solution is :

- a) hypertonic
- b) hypermatic
- c) hypotonic
- d) isotonic
- e) isomatic

ANSWER: C

4- The fiber filaments is name if :

- a) centrosome & microtubules
- b) centrosome & microtubules & kinetochore
- c) microtubules

ANSWER: B

5- The phase of mitosis in which the sister chromatids separate from each other:

- a- Prophase
- b- Metaphase
- c- Anaphase
- d- Telophase
- e- Cytokinesis

ANSWER: C

6 - In which part of body you can find microvilli?

- a) kidney

ANSWER: A

7- Which of these is play role in recognition and work as receptors :

- a) integral proteins
- b) transmembrane proteins
- c) integrates
- d) peripheral proteins
- e) glycoproteins

ANSWER: E

8- When the cell division , the number of haploid cells in meiosis is ----- , in the number of diploid cell in mitoses is -----

- a) 4,2
- b) 2,4
- c) 3, 6

d) 6, 3

e) 9, 1

ANSWER: B

9- The beads on a string chromatin is composed of :

a) 2 histones

b) 8 types of histones and linking histone

c) 8 histones from 4 different types

ANSWER: C

10- The phase of mitoses at which centrosomes extend its spindle fibers :

a) anaphase I

b) Metaphase II

c) prophase

d) telophase II

e) anaphase II

ANSWER: C

11- When cytokinesis occur ??

a) after telophase

b) after anaphase

c) after prophase

d) after metaphase

e) after interphase

ANSWER: A

12- The correct order of the cell phases in the mitoses if you know that 1- metaphase 2- telophase 3 - ana phase 4 - prophase :

- a) 4 , 1 , 2 , 3
- b) 2,3,1,4
- c)3,1,4,2
- d)2,,3,4,1
- e)4,1,3,2

ANSWER: A

13- The thing we use to transfer interesting gene to another known as :

- a) vector

ANSWER: A

14- The regulation of import and export done by :

- a) GTP
- b) ATP
- c) AMP
- d) GTP & AMP
- e) GTP & ATP

ANSWER: A

15- Which of the following is correctly matched :

- a) eucromatin -----> lightly packed
- b) hetero chromatin ----- > have transcription

ANSWER: A

16- The organelle that have RNA :

- a) mitochondria
- b) lysosome
- c) vesicles
- d) sER
- e) Golgi

ANSWER: A

17- You can know about localization of DNA molecules by :

- a) electrophoreses
- b) cell culter
- c) chromatography

ANSWER: A

18 - The reason that explained why the stem cell only have self - renew characteristic and the other cell don't have is :

- a) it is the only cell that don't have X and Y genes
- b) when the cell generate, it will have genetic differences
- c) when cell generate , it will

ANSWER: B

19 - The blood cord contains which type of stem cells ??

- a) hematopoietic

ANSWER: A

20- What is the type of junction that connect cell with its ECM?

- a) desmosomes
- b) tight junction
- c) hemi desmosomes
- d) Gap junction
- e) adherins

ANSWER: C

21- What is the evolution of meiosis :

- a) it is important in Asexual dividing
- b) it is important in the growing and repairing tissue
- c) the genetic material will pass to next generations

ANSWER: C

22- We can distinguish between the organelles and integrins , the organelles that contain integrins is ----- , but the integrins will be -----

- a) bound to the membrane //نسبت
- b) without function /// have function

ANSWER: A

23- The clearing done by :

- a) formalin
- b) paraffin
- c) xylol

ANSWER: C

24- The chromosomal and circular double DNA strand using as vector is :

- a) plasmid
- b) virus

ANSWER: A

25-The orcein stain used in :

- a) nervous cells
- b) elastic fiber of big aortic vessels .

ANSWER: B

26- The molecule that can get through the cell directly is :

- a) glucose
- b) NH₃⁺
- c) Amino Acids
- d) O₂
- e) Na

ANSWER: D

27- What is the correct one about facilitative diffusion :

- a) don't require carrier proteins
- b) diffuse done by channel proteins
- c) it will consumed ATP

ANSWER: B

28- The thing are presence in both EU & Pro karyotic cells is :

- a) mitochondria
- b) Golgi apparatus
- c) ribosomes

ANSWER: C

29- The main structural thing in cell membrane is :

- a) proteins & lipids

ANSWER: A

30- What of these is correct about cell membrane :

- a) osmosis

ANSWER: A

31- All of these are correct about nucleoplasm EXCEPT :

- a) analogy to the cytoplasm
- b) it surrounded by two doubled membranes
- c) contains nucleoskelton
- d) contains enzymes

ANSWER: ?

32- All of these are correct about vesicles EXCEPT :

- a) fatty acid synthesis
- b) have digesting enzymes
- c) hydrogen peroxide is detoxified
- d) digest unwanted cell part by lysosome
- e) اعتقد كانت synthesis of protein

ANSWER: E

33- What white blood cells will do to the bacteria :

a) Phagocytosis

ANSWER: A

34- Which series progresses from the smallest to the largest?

a) DNA, histone; chromosome; nucleosomes

b) Histone; chromosome ; DNA ; nucleosomes

c) Nucleosome : histone ; DNA, chromosome

d) DNA ; histone : nucleosome, chromosome

e) DNA, nucleosome; chromosome; histone

ANSWER: ?

35- Human cells are:

a) eukaryote cells

b) prokaryote cells

c) plant cells

d) bacterial cells

e) depend on the type of cells

ANSWER: A

36- Which stage is the best to determine the number of chromosomes during mitotic phase?

a) interphase

b) metaphase 1

c) metaphase

d)prophase1

e) anaphase1

ANSWER: C

37- Which of the matches is correct?

a) nucleus=ribosome

b) lysosome=ATP

c) cell membrane=osmosis

d) endoplasmic reticulum=...

ANSWER: C

38- One of the following is not from the four main tissues?

a) muscular

b) adipose

c) connective

d) nervous

e) epithelial

ANSWER: B

39- A reason why stem cells can divide while mature cells can't divide:

a) as cells get older, gene make up changes

b) stem cells don't have X,Y chromosomes, so they can divide and differentiate into male or female cells

c) as cells get older, some genes are knocked out

ANSWER: C

40-Where we found microvilli?

a-kidney

ANSWER: A

41-Change in nucleotide sequence:

a-mutation

ANSWER: A

42- How many divisions occur to produce 8 cells?

a- 1

b- 8

c- 5

d- 4

e- 3

ANSWER: E

43- Correct about facilitated diffusion:

a- Channel proteins

ANSWER: A

44- All the following are correct about results of molecular cloning except:

ANSWER: individuals

45- One of the following doesn't of inclusions:

ANSWER: peroxisome

46- What is the structural component of cell membrane:

ANSWER: phospholipids and proteins

47- What's wrong about nuclear transport :

-entry and exit of small and large

48- What's wrong about types of cytoskeleton:

ANSWER: intermediate tubules

49- what's true about nuclear transport:

ANSWER: Macromolecules must bind to NXs to bind to exportins

50- Octamer is:

ANSWER: 8 histones with 4 types

51- Which of stem cells found in cord blood:

ANSWER: Tetrads are lined in the equator of the cell at (metaphase 1).

52- The types of proteins aren't embedded in the cell membrane:

ANSWER: peripheral membrane proteins

53- The importance of presence of glycolipids and glycoproteins:

ANSWER: ?