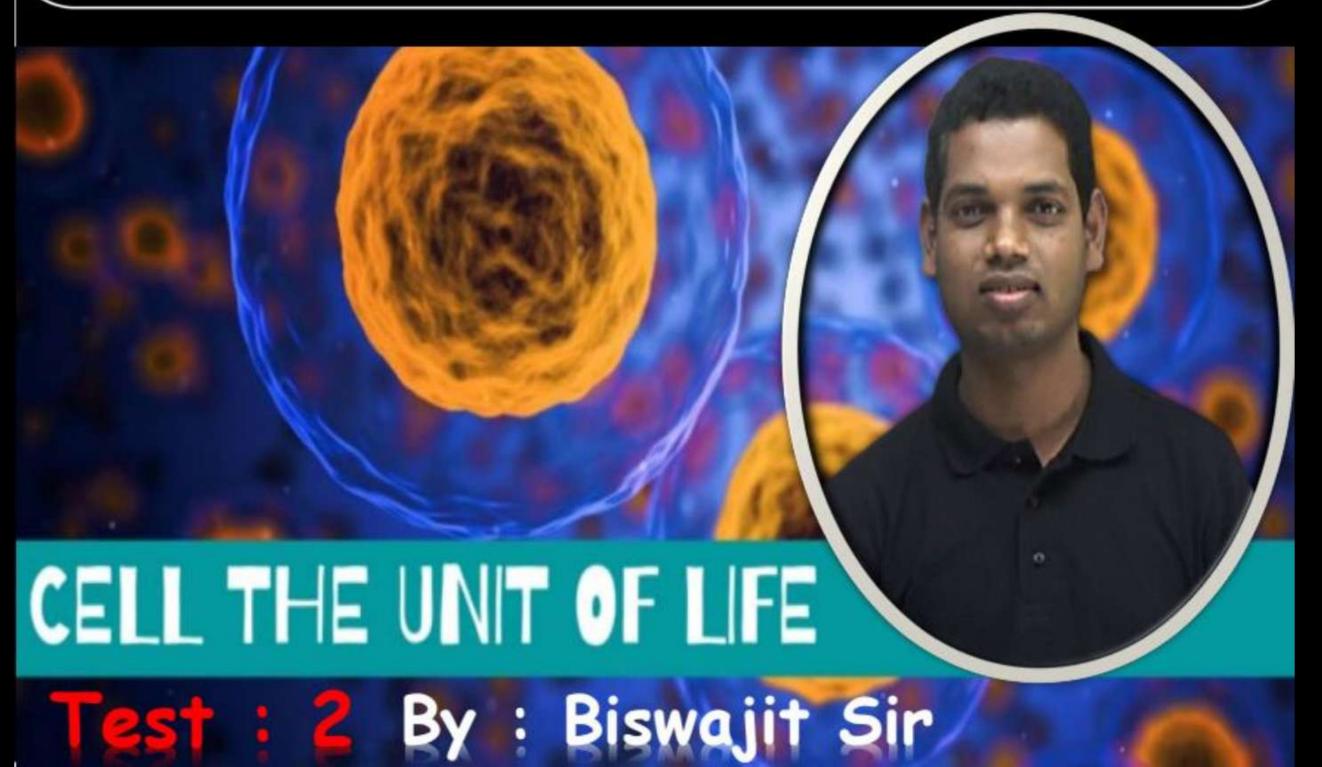


ARJUNA NEET BATCH







Q1. Chromatins are chemically

- A. Ribonucleoprotein X
- **B.** Nucleoprotein
 - C. Protein X
 - D. Nucleic acid X

Chromatins -> NA + protein

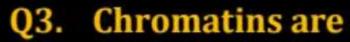
DNIA RNA

Q2. Chromatins are

minterphase

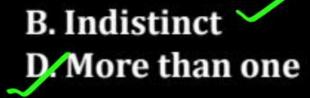
- A. Observed in all phases of cell cycle
- B. Observed in Mphase of cell cycle
- C Observed in interphase of cell cycle
- D. None





A. Distinct X

C. Elaborate







Q4. Chromatins are stained by

A. Acidic dye X

C. Crystal violet

B. Basic dye

D. More than one



Q5. Who coined the term chromatin?

A. Robert Brown B. Flemming

C. Robert Hooke

D. Christian Gram

Q6. Which is the best phase to study chromosomes structure?

A. Metaphase

C. Telophase

B. Anaphase

D. Prophase



Q7. The long arm of submetacentric chromosome is denoted by

A. p

Baq

C. r

D. s

long at m

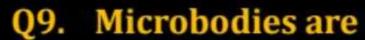
shoot aom



Q8. Find out the odd one with respect to microbodies?

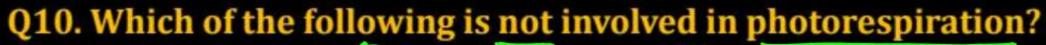
A. Spherosome T B. Glyoxisome T

C. Peroxisome D. RER



- A. Naked X
- B. Single membrane bound
 - C. Double membrane bound
 - D. Large in size X







A. Choloroplast

B. Peroxisome

C. Mitochondrion

D. Glyoxisome



Q11. Which of the following is associated with conversion of lipid into carbohydrate?

- A Glyoxisome
- B. Peroxisome
- C. RER
- D. Spherosome

alyoxylate/gluconeogenesis -> glyoxysome



Q12. Which of the following chromosome appears V shaped in anaphase?

A. Metacemoic

- B. Submetacentoic
- c. Ausocentoic
- D. Telocentoic



Q13. Which of the following is essentially present in every chromosome?

- A. Primary constriction
- B. Secondary constriction X
- C. Centromere ~
- D. More than one



- A. Stained by basic dye
- B. Stained by acidic dye X
- %. Not stained >
- D. Located at variable phases X





Q15. How many pairs of chromosomes have secondary constriction?

- A. 10
- B. 2
- C.5
- D. 6

choomosome 13, 14, 15, 21, 22

Q16. Kinetochore is

- A. Small in size
- B. Disc like structure
- C. Produces spindle fibre
- D More than one







A. RER

B. SER

C. Nucleolus

D. Golgi complex



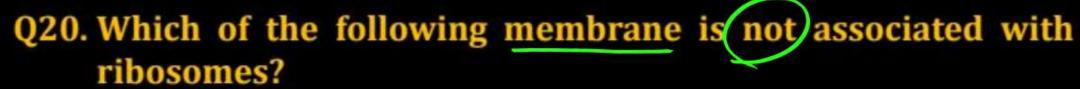
- A. Single membrane bound X
- B. Double membrane bound X
- C. Naked
- D. Not continuous with nucleoplasm





Q19. Which of the following chemicals get exchanged through nuclear pore?

- A. RNA
- B. Protein
- C. Lipid X
- D. More than one



- A. Outer nuclear membrane
- B. Inner nuclear membrane
- C. RER membrane
- D. More than one



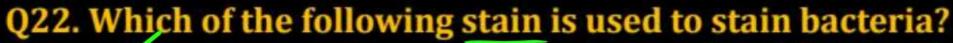
to bacteria?
A. Nucleoid ×

B, Extrachromosomal DNA

C. Cell wall X

D. Plasmamembrane X

plasmid plasmid called extoachomosomal DNA





A. Crystal violet

C. Janus green

1

B. Aidic dye X

D. None of these

gram staining

basic (crystal violet basic Saffranin Stain) Saffranin 2° Stain



Q23. Which of the following special protein is present in surface structure of bacteria that helps in conjugation?

A Pilin

C. Tubulin

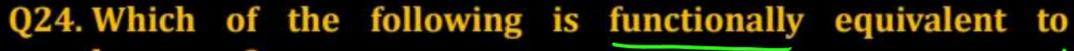
B. Flagellin

D. Dynein

Cilia

19

flagelle



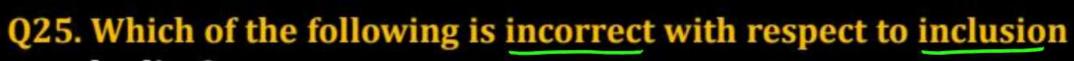
A. Periplasmic space — + Space b/w (wand PM)

B. Mesosome
C. Cell wall

D. Plasmamombrane

D. Plasmamembrane

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- bodies?
- A Single membrane bound X
- B. Present in cytoplasm
- C. Contains reserve materials
- D. All of the above



Q26. Which of the following is not a structural component of bacterial Flagella?

A. Axoneme

B. Basal body

C. Hook

D. Filament

Cilia Ex flagella . basa body

filament





A. Pili

B. Flagella

C. Fimbriae

D. Mesosome



Q28. How many basic shapes are there in bacteria?

A. 2

C. 6

B. 4

D. 8

Rod Spiral



A. PPLO

C. E coli

B. mycoplasma

D/Yeast



- A. Nonmembrane bound
- B Contains DNA only X
 - C. Called genomic DNA
 - D. All of the above

DNA RNA protein



Q31. Which of the following is the most variable phase of cell cycle?

A. G1

B. G2

C. Anphase

D. Metaphase

Q32. Which of the following is not a mitogen?

A. Auxin T B. Cytokinin T

C. Insulin T D. Proline







Q33. How many mitotic divisions hare required to produce 32 cells from a single cell?

A. 16

B. 32

C. 31

D. 5

$$32 - 1 = 31$$

phase

Q34. By which of cell cycle condensation of chromosomes

complete?

A. Prophase

C. Anphase

B. Metaphase

D. Telophase





Q35. In plant cells mi tocyte can be

- A. n 🗸
- B. 2n
- Can be both n and 2n
- D. None

mitocyte (plant), 29
animals) 20
(normally)





A. Plasmamembrane

C/Cell plate

B. Cell wall

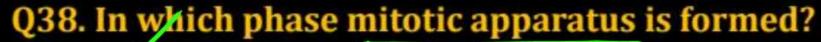
D. None



Q37. In E. coli DNA replication takes place in

- A. S phase X
- B. G1 phase
- C. Before binary fission
- D. M phase





A Late Prophase

C. Anpahse

B. Metaphase

D. Telophase

aster+SF





Q39. In which of the following phases sister chromatids separate?

A. anaphase I X B. G1 X

C. Metaphase II

anaphase -> sister chromatide anaphase I - homologous chromosomes anaphase II -> sister chromatids



Q40. How many metaphasic plates are formed in metaphase II?

A. 1

B. 2

C. 3

D. 4

metaphase II / metaphase => 1

metaphase I -> 2



Q41. How many Meiosis are required to produce 100 microspore from 25 microspore mother cells?

A. 100

B. 99

C/25

D. 50

1x MMC meiosis 4x microspose 25× MMC 25 meiosis 100× microspores

Q42. Which of the following event takes place in pachytene?

A Crossing over

B. Synapsis -> Zygotene

C. Termilization of chiasmata diakinesis

D. Complete disappearance of nuclear envelope



A. Leptotene B. Zygotene

C. Pachytene D. Diplotene





Q44. What would be the number of bivalents in a cell during

meiosis if 2n = 20?

A. 5

C. 20

B.10

D. 40





A Early prophase B. Anpahse

C. Telophase D. Metpahse

