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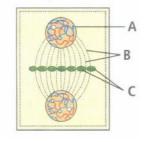
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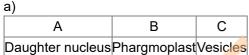
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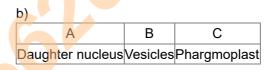
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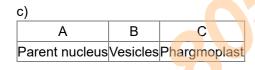
Time: 100 Mins **CELL STRUCTURE AND FUNCTION C 1** Marks: 400

- 1. Which of the events listed below is not observed during mitosis?
  - a) Chromatin condensation b) Movement of centrioles to opposite poles
  - c) Appearance of chromosomes with two chromatids joined together at the centromere d) Crossing over
- 2. To produce 102 pollen grains, how many meiotic divisions are required?
  - a) 25 b) 25.5 c) 26 d) 27
- 3. If the number of bivalents are 8 in metaphase I, what shall be the number of chromosomes in daughter cells after meiosis - I and meiosis -II respectively;
  - a) 8 and 4 b) 4 and 4 c) 8 and 8 d) 16 and 8
- 4. The given diagram depicts cell plate method of cytokinesis in plant cells. Identify A, B and C.







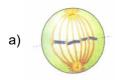


d)		
Α	В	С
Parent nucleus	Phargmoplast	Vesicles

- 5. In which order, cytokinesis occurs in plants;
  - a) Centripetal b) Centrifugal c) obligue d) Equatorail
- 6. During meiosis I in humans, one of the daughter cells receives
  - a) only maternal chromosomes b) a mixture of maternal and paternal chromosomes
  - c) same number of chromosomes as present in parent cell d) none of these.
- 7. Mitosis takes place in
  - a) somatic cells of animals b) meristematic cells of plant c) gonads d) Both 'a' and 'b'
- 8. Refer to the given figure of cell division.



Which of the following options show previous stage of this process?













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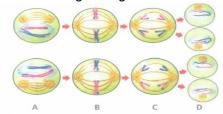
<ul> <li>9. Spindle fibres attach on to:</li> <li>a) Kinetosome of the chromosome b) Telomere of the chromosome c) Kinetochore of the chromosome</li> <li>d) Centromere of the chromosome.</li> </ul>
10. Splindle fibres attach on to;
a) Telomere of the chromosome
<ul> <li>11. Identify the correct statement with regard to G1 phase (Gap I) of interphase</li> <li>a) Cell is metabolically active, grows but does not replicate its DNA b) Nuclear division takes place</li> <li>c) DNA synthesis or replication takes place d) Reorganisation of all cell components takes place</li> </ul>
12. A contractile mid body forms during cytokinesis in; a) Animals b) Higher Plants c) Fungi d) Algae
<ul><li>13. Which part of plant is suitable for the study of melosis;</li><li>a) Root apes</li><li>b) Ovary</li><li>c) Anther</li><li>d) Shoot apex</li></ul>
<ul><li>14. In meiosis , division of centromere occurs during ;</li><li>a) Interphase b) Anaphase - I c) Anaphase - II d) Metaphase - I</li></ul>
15. Microtubules are absent in
a) mitochondria b) flagella c) spindle fibres d) centriole
16. Pre - DNA Synthesis Phase is; a) G <sub>1</sub> -phase b) G <sub>2</sub> -phase c) S- Phase d) Prophase
17. Crossing over takes place in ; a) Diplotene b) Diakinesis c) Zygotene d) pachytene
18. You are provided with floral buds of Chrysanthemum in your class and are asked to count the chromosomes, the which of the following stages would you prefer to look into?  a) Prophase b) Metaphase c) Anaphase d) Interphase
19. A cell cycle includes
a) interphase and M phase b) prophase, metaphase, anaphase and telophase c) $G_1$ , S and $G_2$ phases d) karyokinesis and cytokinesis.
20. Terminalization is related to
a) Diakinesis b) Zygotene c) Leptotene d) Pachytene
21. The chiasmata is formed during which stage of prophase-I of the meiotic cell division?
a) Diplotene b) Pachyte <mark>ne c) Lept</mark> otene d) Zygotene
22. In cell Cycle. whioch stage is misnomerly called resting during ; a) S - Phase b) Telophase c) Cytokinesis d) Interphase
23. Choose the incorrect statement regarding mitosis.
<ul> <li>a) It results in the production of diploid daughter call. with identical genetic components</li> <li>b) It contributes in cell repair c) Meristematic tissue are very useful for the study of mitosis in the laboratory</li> <li>d) In multicellular animals gamete formation takes place only by mitosis</li> </ul>
24. Meiosis is not having the one of the charcter out of the four given below
a) It involves two stages of DNA replication, one before melosis-I and another before meiosis - II
<ul><li>b) It involves recombination and crossing over c) Sister chromatids separate during anaphase - II</li><li>d) Nuclear membrance disappears during prophase</li></ul>
25. Yeast cell divides once in approximately every a) 90 minutes b) 9 minutes c) 24 hours d) 24 days
<ul><li>26. If gametes are produced after reduction division, they are termed a</li><li>a) coenogametes b) mitogametes c) pseudogametes d) meiogametes.</li></ul>
27. At which stage of meiosis does the genetic constitution of gametes is finally decided? <ul> <li>a) Metaphase I</li> <li>b) Anaphase II</li> <li>c) Metaphase II</li> <li>d) Anaphase I</li> </ul>

28.	During ana phasic movements of chromosomes,of each chromosome is/are towards the pole andof the chromosome trail(s) behind.
	a) centromere, arms b) arms, centromere c) chromatids, centromere d) none of these
29.	The members of a homologous pair of chromosomes
	a) are identical in size and appearance b) contain identical genetic information
	c) separate and move to opposite poles of the cell during mitosis d) are found only in haploid cells
30.	is characterised by all the chromosomes coming to lie at the equator, with one chromatid connected by its kinetochore to spindle fibres from one pole and its sister chromatid connected by its kinetochore to spindle
	fibres from the opposite pole.
	a) Prophase b) Metaphase c) Anaphase d) Telophase
31.	During which phase(s) of cell cycle, amount of DNA in a cell remains at 4C level if the initial amount is denoted as
	2C?
	a) $G_0$ and $G_1$ b) $G_1$ and $S$ c) Only $G_2$ d) $G_2$ and $M$
32.	Which of the following is correct about bivalent?
	(i) Bivalents are tetrads.
	(ii) A bivalent means 4 chromatids and 2 centromeres.
	(iii) One bivalent consistsof 2 homologouschromosomes. (iv) Bivalents form in zygotene
	a) (i), (ii), (iii) and (iv) b) (iii) only c) (iii) and (iv) d) (iv) only
22	
აა.	The chromosomes in which centromere is situated close to one end are:  a) Acrocentric b) Telocentric c) Sub-metacentric d) Metacentric
34.	Consider the following statements.  I The phragmoplast consists of a cluster of interdigitating microtubules oriented perpendicular to the future
	cell plate.  II. The term 'mitosis' was given by Farmer and Moore, it is a form of somatic polyploidy.
	Which of the statement(s) given above is/are incorrect?
	a) Only I b) Only II c) I and II d) None of these
35	Synaptonemal complex is characterstic of ;
55.	a) Mitotic chromosomes b) Leptodene chromosome c) Paired Meiotic chromosomes d) Metaphase
26	
30.	An anther has 1200 pollen grains. How many PMCs must have been there to produce them?  a) 1200 b) 300 c) 150 d) 2400
o <del>-</del>	
37.	is the best stage to count the number and study the morphology of chromosomes.
	a) Prophase b) Metaphase c) Anaphase d) Telophase
38.	If 2n = 4, then identify the figures A, B and C. as per the following codes and select the correct option.
	CONTRACTOR OF THE PROPERTY OF
	Anaphase of meiosis I = (i)
	Anaphase of mitosis = (ii)
	Anaphase meiosis II = (iii)
	a) A-(ij), B-(i), C-(iii) b) A-(iii), B-(ii), C-(i) c) A-(i), B-(ij), C-(iii) d) A-(iij), B-(i), C-(ii)
39.	Which of the following statements is correct?
	a) Animals can show mitotic divisions in both haploid and diploid cells
	b) After S phase the number of chromosomes becomes double i.e., 2n to 4n.
	c) During the G <sub>2</sub> phase, proteins are synthesised in preparation for mitosis while cell growth continues.
	d) S or synthesis phase marks the period during which RNA synthesis takes place
40.	Separation of homologous chromosomes during Anaphase - I is called ;
	a) Synapais b) Disjunction c) Nondisjunction d) Crossing Over

41. **Assertion:** Variations are important for the process of evolution.

Reason: Meiosis increases the genetic variability in the population of organisms from one generation to the next.

- a) If both assertion and reason are true and reason is the correct explanation of assertion
- b) If both assertion and reason are true but reason is not the correct explanation of assertion
- c) If assertion is true but reason is false d) If both assertion and reason are false
- 42. Refer to the given figure and select the correct statement.



- a) In stage B homologous chromosomes are interconnected and chromosomes occur in pairs.
- b) Stage A is divisible into five substages.
- c) In stage D, chromosomes are not enclosed by a nuclear envelope.
- d) In stage C centromeres divide and chromosomes are single stranded.
- 43. Diplotene stage of prophase-I is characterised by
  - a) dissolution of synaptonemal complex
  - b) separation of synapsed homologous chromosomes except at the site of crossovers
  - c) formation of X-shaped structures called chiasmata d) all of these.
- 44. The number of DNA in chromosome ar G<sub>2</sub> State of cell Cycle;
  - a) One b) Two c) Four d) Eight
- 45. Zygotene of prophase-I is characterised by
  - a) chromomeres b) synaptonemal complex c) crossing over d) terminalisation of chiasmata
- 46. The movement of homologous chromosomes towards opposite poles occur by diassembly of spindle fibres during
  - a) Anaphase b) Anaphase-I c) Anaphase-I d) Metaphase
- 47. Which one of the following structures will not be common to mitotic cells of higher plants?
  - a) Cell plate b) Centriole c) Centromere d) Spindle fibres
- 48. Which phase occupies the maximum part of cell cycle?
  - a) Mitotic phase b) Meiotic phase c) Interphase d) Cytokinesis
- 49. **Assertion:** The final stage of meiotic prophase I is diplotene.

**Reason:** Diplotene is marked by terminalisation of chiasmata.

- a) If both assertion and reason are true and reason is the correct explanation of assertion
- b) If both assertion and reason are true but reason is not the correct explanation of assertion
- c) If assertion is true but reason is false d) If both assertion and reason are false
- 50. Read the following statements.
  - (i) In mitotic cell division chromosome number is halved.
  - (ii) Centromere is the point where two sister chromatids are held together.
  - (iii) The period between two successive mitotic divisions is known as telophase.
  - (iv) In G<sub>1</sub> phase of cell cycle protein and RNA are synthesised.

Which of the above given statements are correct?

- a) (i) and (iii) only b) (ii) and (iii) only c) (i) and (iv) only d) (ii) and (iv) only
- 51. Mitotic anaphase differs from metaphase in possessing \_\_\_\_\_
  - a) Same number of chromosomes and same number of chromatids
  - b) Half number of chromosomes and half number of chromatids
  - c) Half number of chromosomes and same number of chromatids
  - d) Same number of chromosomes and half number of chromatids
- 52. Consider the following statements regarding amitosis.
  - I. It was first discovered by J Huxley in the WBCs of chicken embryo.
  - II. In this division, no spindle formation and no distinct chromosome formation occurs.

	Which of the statement(s) given above are correct?  a) Only I b) Only II c) I and II d) None of these
53.	The plant cell, cytokinesis occurs by a) Cell plate b) Invagination c) Cleavage d) Furrowing
54.	Formation of bivalents during meiosis occurs at a) leptotene b) zygotene c) pachytene d) diplotene
55.	The separation of two chromatids of each chromosome at early anaphase is initiated by a) the interaction of centromere with the chromosomal fibres b) the elongation of metaphasic spindle c) the force of repulsion between the divided kinetochores d) all of these.
56.	<b>Assertion:</b> The stage between the two meiotic divisions is called interkinesis. <b>Reason:</b> Interkinesis is generally short lived.
	<ul><li>a) If both assertion and reason are true and reason is the correct explanation of assertion</li><li>b) If both assertion and reason are true but reason is not the correct explanation of assertion</li><li>c) If assertion is true but reason is false</li><li>d) If both assertion and reason are false</li></ul>
57.	What does (i) and (ii) represent in the given flowchart?
	$egin{aligned} Parent \ cell & \stackrel{M-I}{\longrightarrow} \ 2 \ Daughter \ cells & \stackrel{M-II}{\longrightarrow} \ 4 \ Daughter \ cells & \ & \ & \ & \ & \ & \ & \ & \ & \ & $
	(i) $(i) = 2n$ $(i) = n$ $(i) = n$ $(i) = 2na) (ii) = n b) (ii) = n c) (ii) = 2n d) (ii) = 2n$
58.	Which phase of mitosis is essentially the reverse of prophase in terms of nuclear changes?  a) S-phase b) Anaphase c) Telophase d) Interphase
59.	Crossing over occurs during a) Pachytene b) Diplotene c) Diakinesis d) Zygotene
60.	Number of chromatids at metaphase is  a) Two each in mitosis and meiosis b) Two in mitosis and one in meiosis c) Two in mitosis and four in meiosis d) One in mitosis and two in meiosis
61.	M-phase of cell cycle consist of; a) G <sub>1</sub> , S and G <sub>2</sub> , phase b) Prophase, Metaphase, Anaphase, Telophase c) Interphase, Prophase, Metaphase, Anaphase, Teliphase d) Only Prophase
62.	Spindle formation can be disrupted by exposing cell to the microtubule poison such as a) high concentration of oxygen b) vitamin A c) cholesterol d) colchicine
63.	If a tissue has at a given time 1024 cells, how many cycles of mitosis had the original parental single cell undergone?  a) 512 b) 10 c) 1024 d) 256
64.	In 'S' phase of the cell cycle:  a) Amount of DNA doubles in each cell. b) Amount of DNA remains same in each cell. c) Chromosome number is increased. d) Amount of DNA is reduced to half in each cell.
65.	Slipping of chiasmata towards the ends bivalent is called ; a) Terminalisation b) Diakinesis c) Interkinesis d) Heterpycnosis
66.	Match column I with column II and select the correct option from the given codes.
	Column I Column II
	A. Chromosomes move to equator(i) Pachytene  Centromere splits and
	chromatids move apart (II) Zygotene
	C. Pairing between homologous (iii) Anaphase chromosomes
	D. Crossing over between homolo ous chromosomes (iv) Metaphase

a) A-(i), B-(ii), C-(iii), D-(iv) b) A-(ii), B-(iii), C(iv), D-(i) c) A-(iv), B-(iii), C-(ii), D-(i) d) A-(iii), B-(i), C-(iv), D-(ii)

67.	a) Anaphase - I b) Anaphase - II c) Metaphase - I d) Metaphase - II
68.	During cell cycle, two molecules of DNA are present in chromosome during a) $G_1$ phase b) Beginning of S phase c) $G_2$ phase d) End of M-phase
69.	Gap between division phase and start of DNA - replication is called a) G1 - phase b) G2 - phase c) M - Phase d) Interkinesis
70.	Assertion: Small disc-shaped structures at the surface of the centromeres are called kinetochores.  Reason: Kinetochores serve as the sites of attachment of spindle fibres to the centro meres.  a) If both assertion and reason are true and reason is the correct explanation of assertion  b) If both assertion and reason are true but reason is not the correct explanation of assertion  c) If assertion is true but reason is false  d) If both assertion and reason are false
71.	The process of crossing over is assisted by which of the following enzymes? a) Endonuclease b) Polymerase c) Ligase d) Both (a) and (c)
	What is true about telophase stage of mitosis?  a) Chromosomeslosetheir identity as discrete elements b) Chromosomes cluster at opposite spindle poles c) Nuclear envelope, nucleolus, Golgi complex and ER reform. d) All of these
73.	a) the separation of homologous chromosomes at anaphase I b) the type of chromosomal aberration in which there is loss of a part of a chromosome c) incompatibility in fungi and other thallophytes d) modification of gene action by a nonallelic gene.
74.	Which one of the following statements is correct?  a) Cell divided by cytokinesis only in mitosis b) DNA is replaced before the start of meiosis only c) Spindles consisting of microtubules are formed only in mitosis d) Exchage ge genetic materials occurs only in meiosis
75.	Best material for the study of mitosis in laboratory is  a) Anther b) Root tip c) Leaf tip d) Ovary
76.	A cell at telophase stage is observed by a student in a plant brought from the field. he tells his teacher that this cell is not like other at telophase stage there is no formation of cell plate and thus the cell is containing more number of chromosomes as compared to other dividing cells. This would result in;  a) Somaclonal variation b) Polyteny c) Aneuploidy d) Polyploidy
77.	Crossing over in diploid organisms is responsible for a) dominance of genes b) linkage between genes c) segregation of alleles d) recombination of alleles.
78.	Match column I with column II and select the correct option from the given codes.  Column I  A. Division of nucleus  B. Division of cytoplasm  (ii) Cytokinesis  C. DNA replication  (iii) Syncytium  D. Karyokinesis not followed by cytokinesis(iv) Karyokinesis  a) A-(ii), B-(iv), C-(i), D-(iii) b) A-(iv), B-(ii), C-(i), D-(iii) c) A-(iv), B-(ii), C(iii), D-(i)  d) A-(iii), B-(ii), C-(iv), D-(i)
79.	The cells that do not divide further, exit $G_1$ phase to enter an inactive stage called of the cell cycle. a) M stage b) $G_2$ stage c) S stage d) $G_0$ stage
80.	At what stage of the cell cycle are histone proteins synthesised in a eukaryotic cell?  a) During G 2 stage of Prophase b) During S-phase c) During entire prophase d) During telophase
81.	If a diploid cell is treated with colchicine then it becomes  a) Triploid b) Tetraploid c) Diploid d) Monoploid
82.	After karyogamy followed by meiosis, spores are produced exogenously in  a) Agaricus b) Alternaria c) Neurospora d) Saccharomyces
83.	If the cell is diploid in G <sub>1</sub> than after the S phase cell remain/become;

	a) n b) 4n c) 8n d) 2n
84.	Dissolution of the synaptonemal complex occurs during;
	a) Diplotene b) Leptotene c) Pachytene d) Zygotene
85.	The major event that occurs during the anaphase of mitosis, which brings about the equal distribution of
	chromosomes is
	<ul><li>a) replication of the genetic material</li><li>b) splitting of the chromatids</li><li>c) splitting of the centromeres</li><li>d) condensation of the chromatin</li></ul>
96	How many generations are required by a cell of meristem to produce 128 cells?
00.	a) 127 b) 64 c) 32 d) 7
87.	A bivalent of meiosis I consists of
	a) two chromatids and one centromere b) two chromatids and two centromeres
	c) four chromatids and two centromeres d) four chromatids and four centromeres
88.	Which of the following is not a characteristic feature during mitosis in somatic cells?
	a) Synapsis b) Spindle fibres c) Disappearance of nucleolus d) Centromere of the chromosome
89.	<b>Assertion:</b> DNA synthesis occurs in interphase of cell cycle. <b>Reason:</b> During G <sub>1</sub> and G <sub>2</sub> -phase, the DNAcontents become double.
	a) Both Assertion and Reason are true and Reason is the Correct explanation of Assertion
	b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion
	c) Assertion is true, but Reason is false d) Both Assertion and Reason are false
90.	At what phase of meiosis there are two cells, each with separated sister chromatids that have been moved to
	opposite spindle poles?  a) Anaphase I b) Anaphase I c) Telophase I d) Telophase I
<b>Q</b> 1	Assertion: Meiotic division occurs in reproductive cells.
J 1.	Reason: Synapsis occurs during zygotene of meiosis.
	a) Both Assertion and Reason are true and Reason is the Correct explanation of Assertion
	b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion
00	c) Assertion is true, but Reason is false d) Both Assertion and Reason are false
92.	Given diagram shows variations in the amount of DNA of a developing eukaryote. What the arrow denotes?
	ONA Content/Cell
	DIA PARA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA D
	Time ->
	a) First meiotic anaphase b) Second meiotic anaphase c) Mitotic telophase d) Mitotic telophase
93.	At which of the given stages of mitosis, chromosomes appear in V. L, J and I shapes.  a) A b) B c) C d) D
94	Which does not occurs in prophase?
<b>O</b> 1.	a) Decondensation of chromatin b) Condensation of chromatin c) Appearance of chromosome
	d) Disapperance of nuclear membrance and nucleolus
95.	The point, at which polytene chromosomes appear to be attached together, is called
	a) Centriole b) Centromere c) Chromomere d) Chromocentre
96.	Post mitotic gap phase is characterised by all, except
	<ul><li>a) synthesis of RNA and nucleotides</li><li>b) no change in DNA content</li><li>c) synthesis of histone proteins</li><li>d) growth phase of the cell</li></ul>
97.	Best stage to observe shape, size and number of chromosomes is
•	a) Interphase b) Metaphase c) Prophase d) Telophase
98.	Cells in G <sub>0</sub> phase:
	a) Enter the cell cycle b) Suspend the cell cycle c) Terminate the cell cycle d) Exit the cell cycle
99.	Chiasmata appears during;

- a) Diakinesis b) Synaptotene c) Diplotene d) Leptotene
- 100. Identify the wrong statement about meiosis.
  - a) Pairing of homologous chromosomes b) Four haploid cells are formed
  - c) At the end of meiosis number of chromosomes are reduced to half d) Two cycles of DNA replication occur.

