

MULTIPLE CHOICE QUESTIONS

Topic 1

Cell Cycle

- 1. All cells reproduce by dividing into_____, with each parental cells giving rise to_____ cells each time they divide.
 - (a) One ; four daughter
 - (b) Two; two daughter
 - (c) One ; two daughter
 - (d) Two ; four daughter
- **2.** A cell cycle is made up of all the listed events, except:
 - (a) Cell growth
 - (b) DNA replication
 - (c) Transcription
 - (d) Cell division
- 3. Consider the following statements-

Statement-I: Cell growth (in terms of cytoplasmic increases) is a contingent process which occur during cell cycle.

Statement-II: DNA synthesis occurs only during one specific stage in the cell cycle.

Statement-III: The events of cell cycle are under genetic control.

- (a) Statement-I is false & Statement-II and III are true
- (b) Statements-I and II are false & Statements-III are true
- (c) All Statements are true
- (d) None of the above stated statements are true.

Topic 2

Phases of Cell Cycle

- 4. The G_2 of cell cycle is pronounced by-
 - (a) Cell growth and division
 - (b) Cell duplication
 - (c) Protein synthesis & centriole duplication
 - (d) Cell growth & protein synthesis
- 5. Find mismatch column.

Column-IColumn-II(a) KaryokinesisSeparation of
daughter chromosomes(b) CytokinesisDivision of cytoplasm(c) InterphaseSmallest phase of cell
cycle(d) M-phaseMitosis phase

- 6. The inactive stage of cell cycle is-
 - (a) Quiescent stage (b) G_1
 - (c) S phase (d) (a) and (b)
- **7.** Choose the correct statement with respect to G₀ phase:
 - (a) Also known as quiescent stage and start after G_2 phase
 - (b) Cells of this stage remain inactive and no longer undergo proliferation
 - (c) Cell of this stage remain in active but no longer proliferation unless called to do so depending on the requirement of organism
 - (d) Cells of this stage remain active and proliferate till death without any condition

8.	How many chromosome does onion somatic cell have?							
	(a)	12	(b)	14	14			
	(c)	16	(d)	20	1 1			
9.	Hov som	wmany number o natic cells have in pectively?	f chro n G ₁ ,	mosomes does onion S, $G_2 \& M$ – phase	(
	(a) (c)	32, 16, 16, 32 16, 16, 16, 16	(b) (d)	16, 32, 16, 16 None of these	(
10.	Mit	otic division occu	irs in	_				
	(a) (b) (c) (d)	Diploid somatic Haploid male ho (a) and (b) Gametes	cell oney b	pee	(
11.	Mat	ch the following	colun	nn:	(
	Col	umn – I	Colu	ımn – II				
	(a)	G ₁ Phase	(i)	Metabolically active cell, do not proliferate	(
	(b)	S Phase	ii)	Content of DNA doubled	(
	(c)	G ₀ phase	iii)	Synthesis of proteins	15. <i>I</i>			
	(d)	G ₂ Phase	iv)	Metabolically	(
				active cell grows	16 (
	(a)	a - iv) $b - ii$) c	- i) (d – iii)	10. C			
	(b)	a – i), b – ii), c –	- iv), (d — iii)	(
	(c)	a – iv), b – iii), d	c−i),	d - ii	(
	(d)	None of these			17. \			
12.	Hun	nan cell divides or	nce in	approximately every:	p			
	(a)	60 minutes	(b)	90 minutes	(
	(c)	24 nours	(d)	None of these	(
13.	Rea corr	d the following s rect option.	statem	nents and choose the	18. 7 c			
	Stat whe	ement A: The M- en actual cell divi	phase sion c	represents the phase occurs	(
	Statement B: Interphase represents the phase between two successive M-phases							
	(a) Only Statement A is correct (b) Only Statement B is correct							

(b) Only Statement B is correct

- (c) Both the statements are incorrect
- (d) Both the statements are correct
- Match the columns and choose the correct option:

	1			
	(Column I	С	olumn II
	(a)	G ₁ phase	(i)	Quiescent
		1 -		stage of the
				cell cycle.
	(b)	G ₂ phase	(ii)	DNA denoted as 2C,
		_		increases to 4C
	(c)	Synthesis	(iii)	Proteins are
		phase		synthesized in
				preparation
				for mitosis
	(d)	G0 phase	(iv)	Cell contain
				initial amount of
				DNA i.e., 2C
	(a)	a-iv, b-iii, c-i, d-ii	ĺ	
	(b)	a-1v, b-111, c-11, d-1	l	
	(c)	a-111, b-1, c-1v, d-11	l	
	(d)	a-11, b-1v, c-11, d-1		
5.	An a	average duration o	f yea	ast cell cycle is-
	(a)	60 minutes	(b)	90 minutes
	(c)	20 minutes	(d)	One day
6.	Cell	cycle is divided	l int	to how many basic
	phas	ses?		
	(a)	One	(b)	Two
	(c)	Four	(d)	Six
7.	Whi	ch of following	is/aı	re enlisted as basic
	phas	ses of cell cycle?		
	(a)	G ₀ phase	(b)	S phase
	(c)	Interphase	(d)	Metaphase
8.	The	phase of cell cyc	le d	uring which mitosis
	occu	ır is-		
	(a)	Interphase	(b)	M-phase
	(c)	G-phase	(d)	S-phase
9.	The	phase between tw	o su	ccessive M-phase is-
	(a)	Interphase	(b)	G-phase
	(c)	S-phase	(d)	M-phase

- **20.** The time span of interphase and M-phase in an average human cell cycle is-
 - (a) 12 hours each
 - (b) 95% M-phase & one hour interphase
 - (c) 8 hour M-phase & 16 hour interphase
 - (d) One hour M-phase & 23 hour interphase
- 21. The correct sequence of cell is-
 - (a) $\mathbf{M} \to G_2 \to \mathbf{S} \to G_1$
 - (b) $S \to G_2 \to G_1 \to M$
 - (c) $\mathbf{M} \to G_1 \to G_2 \to \mathbf{S}$
 - (d) $G_1 \rightarrow S \rightarrow G_2 \rightarrow M$
- **22.** The process which mark as start & usually end of M-phase are-
 - (a) Division of cytoplasm & karyokinesis respectively
 - (b) Cytokinesis and division of cytoplasm respectively
 - (c) Separation of daughter chromosome & cytokinesis respectively
 - (d) Karyokinesis & cytokinesis respectively
- 23. Resting phase of cell-cycle is-
 - (a) M-phase (b) Interkinesis
 - (c) $G_1 \& G_2$ phase (d) Interphase
- **24.** Interphase is divided into___ phases further.
 - (a) 4 (b) 3
 - (c) 2 (d) 5
- **25.** Which of following stage corresponds to the interval between mitosis & initiation of DNA replication?
 - (a) S-phase (b) G_2 -phase
 - (c) M-phase (d) G₁-phase
- **26.** Select the correct statement about G_1 phase-
 - (a) Cell is metabotically inactive
 - (b) DNA does not replicate
 - (c) DNA replicate
 - (d) Chromosome number is doubled
- 27. Correct sequence of phase of M-phase is-
 - (a) Cytokinesis \rightarrow Prophase \rightarrow Metaphase \rightarrow Anaphase \rightarrow Telophase

- (b) Prophase \rightarrow Anaphase \rightarrow Metaphase \rightarrow Telophase \rightarrow Cytokinesis
- (c) $G_0 \rightarrow G_1 \rightarrow S \rightarrow G_2$
- (d) None of these
- **28.** What would be amount of DNA (C) and number of chromosome (N) in animal cell just after completion of S phase if the initial amount is 2C and 2N?
 - (a) 2C and 2N respectively
 - (b) 4C and 4N respectively
 - (c) 4C and 2N respectively
 - (d) 2C and 4N respectively
- 29. Duplication of centriole occur in-
 - (a) M-phase (b) G_2 -phase
 - (c) S-phase (d) G_0 -phase
- 30. The S-phase of animal cell marked by-
 - (a) DNA replication
 - (b) Centriole duplication
 - (c) Cell growth and protein synthesis
 - (d) (a) and (b)

Topic 3

M-Phase

- **31.** M phase belongs to
 - (a) Metaphase (b) Meiosis
 - (c) Karyokinesis (d) (a) and (b) both
- **32.** Which one of the following is the most dramatic period of cell cycle?
 - (a) Gap 1 only (b) M-phase
 - (c) S-phase only (d) Interphase
- 33. Which cell equational division refer to?
 - (a) Meiosis
 - (b) Mitosis
 - (c) Number of cell chromosome in parent & progeny cell is same
 - (d) (b) and (c)
- - (a) 2 (b) 3 (c) 4 (d) 8

81

- **35.** Which one is the correct order of mitotic division?
 - (a) Metaphase \rightarrow Anaphase \rightarrow Prophase \rightarrow Telophase
 - (b) Prophase \rightarrow Metaphase \rightarrow Anaphase \rightarrow Telophase
 - (c) Anaphase \rightarrow Telophase \rightarrow Metaphase \rightarrow Prophase
 - (d) Telophase \rightarrow Prophase \rightarrow Anaphase \rightarrow Metaphase

Topic 4

Prophase

- **36.** How do the chromosome appear during prophase of animal cell during mitosis?
 - (a) Consisting of four chromatid which remain attached to centromere
 - (b) Consisting of two chromatid which remain attached to centromere
 - (c) Consisting of four chromatid without centromere
 - (d) As chromatin material without any defined structure
- 37. Asters formed during prophase are -
 - (a) Composed of microtubules originate from centromere
 - (b) Composed of protein which secreted by golgi body
 - (c) Highly condensed area of chromosome
 - (d) None of these
- **38.** What difference would indicate early prophase & late prophase of animal cell?
 - Early Prophase Late Prophase
 - (a) Nucleolus & Nucleolus & nuclear membrane membrane present
 Nucleolus & nuclear membrane are absent
 - (b) Chromosomes There is no are highly condensation of condensed chromosomes

(c)	Nucleolus &	Nucleolus &
	centrosome are	centromere are
	present	absent
(d)	Other organelles	Other organelles
	like ER, Golgi	like ER, Golgi
	body	
	complexes are	complex are
	not observed	observed.

39. Identify correct stage of given diagram.



- (a) Late Prophase Early Prophase
- (b) Early Prophase Late Prophase
- (c) Metaphase Prophase
- (d) Prophase Metaphase
- **40.** Select the correct option:
 - (I) Prophase is first stage of Karyokinesis.
 - (II) It occurs after completion of protein synthesis during cell cycle
 - (a) Both (I) & (II) are true
 - (b) Both (I) & (II) are false
 - (c) (I) is true but (II) is false
 - (d) (I) is false but (II) is true
- 41. During prophase, which of the following occurs?
 - (a) Condensation of chromosomal material
 - (b) Chromosomal material becomes tangled
 - (c) Centrosome duplication
 - (d) Movement of both centriole at one pole of cell
- 42. Choose the incorrect match:
 - (a) Beginning of movement of chromosomes to opposite poles Prophase
 - (b) Two asters with spindle Mitotic apparatus
 - (c) Attachment of spindle Metaphase
 - (d) Chromosomes move to opposite poles Metaphase

- 43. Mitotic apparatus consist of -
 - (a) Four aster with spindle fibres
 - (b) One aster with spindle fibres
 - (c) Two asters with spindle fibres
 - (d) Centrosome with their microtubules without spindle fibres.
- **44.** How many of following structures are observed when cells are viewed under the microscope at end of prophase? Golgi body, ER, Nucleolus, Nuclear envelop, centrosome.
 - (a) Zero (b) One
 - (c) Three (d) All of these

Topic 5 Metaphase

- **45**. Kinetochores are
 - (a) Precursors of microtubules
 - (b) Sites of attachment of spindle fibres
 - (c) Site for origination of spindle fibres
 - (d) Small disc shaped structure at telomere of chromosome
- 46. Metaphase is characterised by
 - (a) Some chromosomes coming to lie at the pole
 - (b) One chromatid of each chromosome connected by its centromere to spindle fibres from one pole
 - (c) Sister chromatid connected by its kinetochore to spindle fibres from opposite poles
 - (d) All of these
- 47. Identify the stage:



- (a) Transition to Metaphase
- (b) Anaphase
- (c) Metaphase
- (d) Telophase

- **48**. The complete disintegration of nuclear envelop marks the start of:
 - (a) Late Prophase (b) Metaphase
 - (c) Anaphase (d) None of these
- 49. Identify stage of given diagram:



- (a) Early prophase, metaphase
- (b) Late prophase, transition to metaphase
- (c) Early prophase, transition to metaphase
- (d) Late prophase, metaphase
- **50**. Which stage of cell cycle is best to study chromosome morphology?
 - (a) Late Prophase (b) Early Prophase
 - (c) Anaphase (d) Metaphase
- 51. Condensation of chromosome is completed in -
 - (a) Stage where centrosome is duplicated
 - (b) Stage where DNA content is doubled
 - (c) Stage where complete integration of nuclear envelope occurs
 - (d) Stage where complete disintegration of nucleus envelope occurs
- **52**. Metaphase chromosome is made up of -
 - (a) Two non sister chromatid which are held together by centromere
 - (b) Four sister chromatid which are held together by centromere
 - (c) Two sister chromatid which are held together by centromere
 - (d) Four non sister chromatid which are held together by centromere

84									
Topic 6		Anaphase							
53.	At t split (a) (b) (c) (d)	he onset of anap s into – One chromatid Four daughter ch Two daughter ch Eight chromatids	hase roma	, each chromosome atids osomes					
54.	Ana i)	phase is character Migration of dat equator.	ised ighte	by – er chromatid toward					
	11) iii)	Centromere of each chromosome remain directed toward pole Centromere of each chromosome remain directed toward equator							
	iv) v) (a) (c)	Chromatid split and centromere separate Chromatid separate after centromere spli i, ii, v (b) ii, v iii v (d) ii iv							
55.	Iden	tify the stage –							
	(a) (c)	Anaphase Interphase	(b) (d)	Telophase Metaphase					

Торіс
7

56. During telophase:

(i) Chromosome cluster at opposite spindle poles

Telophase

- (ii) Two daughter nuclei are formed
- (iii) Chromosomes lose their individuality
- (iv) It is the reversal of prophase
- (v) Nucleolus is not reformed

Choose the incorrect statement:-

- (a) i), (ii) (b) (iii), (iv)
- (c) (v) only (d) none of these

57. Match the following column –

• • •	1.1000								
	Column I			Column II					
	a)	Syncytium	i	Divide the cytoplasm					
	b)	Cell-plate	ii	Occur in liquid endosperm of					
	c)	Cell furrow	iii	Method of cytokinesis in plant cell					
	(a)	a-iii, b-ii, c-i							
	(b)	a-ii, b-iii, c-i							
	(c)	a-i, b-ii, c-iii							
	(d)	a-ii, b-i, c-iii							
58.	Cell (a) (b) (c) (d)	plate represents - Primary lamella Middle lamella Both Formation of pla	_ .te by	y lysosome					
Тор 8	pic	Cy	ytok	inesis					
59	Mitosis usually results in the production of								

- 59
 - (a) haploid daughter cells with identical genetical complement
 - (b) growth of multicellular organism
 - (c) diploid daughter cells without identical genetical complement
 - (d) haploid daughter cells without identical genetical complement
- 60. Which one is not a significance of meiosis division?
 - (a) Increases the genetic variability in organisms
 - (b) Helps in restoring of original chromosome number in a sexually reproducing species.
 - (c) Ensure production of haploid phase
 - (d) Cell repair

- 61. The growth in plant is/are contributed by
 - (a) Mitotic division in apical meristem
 - (b) Meiotic division in lateral meristem

- (c) Meiotic division in apical meristem
- (d) (a) and (b) both $\left(a \right) = \left(a \right) \left(a \right) \left(b \right) \left(a \right) \left(b \right) \left(a \right) \left(b \right) \left(b$
- **62**. (a) The nucleo-cytoplasmic ratio in organism is restored by mitosis
 - (b) The cells of the upper layer of the epidermis, cells of lining of gut, and blood cells are being constantly replaced by Mitotic division.

Choose the correct option from the following :

- (a) Statement (a) is true but (b) is false
- (b) Statement (b) is true but (a) is false
- (c) Statement (a) & (b) are true
- (d) Statement (a) & (b) are false

Topic 9

Meiosis

- 63. Meiosis result in-
 - (a) production of gametes
 - (b) reduction in the number of chromosomes
 - (c) introduction of variation
 - (d) all of these
- **64**. Meiosis ensures the production of phase in life cycle of sexually reproduction organisms whereas fertilization restores the phase.
 - (a) haploid & haploid respectively
 - (b) haploid & diploid respectively
 - (c) diploid & diploid respectively
 - (d) diploid & haploid respectively

65. Which of the following statement is correct?

- (a) Meiosis involves single cycle of nuclear and cell division
- (b) Doubling of chromosomes occur once during S-phase
- (c) Recombination between sister chromatid of non-homologous chromosome
- (d) Pairing of homologous chromosome
- **66**. At the end of meiosis-II, how many haploidcells are formed?
 - (a) One (b) Two
 - (c) Zero (d) Four

- 67. Recombination occurs between -
 - (a) sister chromatid of non-homologous chromosomes
 - (b) non-sister chromatid of non-homologous chromosomes
 - (c) sister chromatid of homologous chromosomes
 - (d) non-sister chromatid of homologous chromosomes

Topic 10

Meiosis-I

- 68. Diakinesis is marked by -
 - (a) Terminalisation of chiasmata
 - (b) Chromosomes are fully condensed
 - (c) Meiotic spindle assembled
 - (d) All of these
- 69. Meiotic spindle is assembled to prepare -
 - (a) Non-homologous Chromosomes for separation.
 - (b) Formation of aster rays.
 - (c) Homologous chromosome separation.
 - (d) Both (b) and (c)

70. Match the following

Column I			Column II					
Ι	Leptotene	а	Compaction of					
			chromosome					
Π	Zygotene	b	Separation of					
			chromosomes except					
			at crossover					
III	Pachytene	c	Terminalisation of					
			chiasmata					
IV	Diakinesis	d	Appearance of					
			recombination					
			nodules					
V	Diplotene	e S	ynapsis					
(a)	I-a, II-e, III-d,	IV-c, V	V-b					
(b)	I-a, II-b, III-d,	IV-c, Y	V-e					
(c) I-c II-d III-a IV-e V-b								

(d) None of these

71. Identify the stage:



- (a) Homologous chromosomes separate, while sister chromatids remain associated at centromere.
- (b) Homologous chromosomes along with sister chromatids separate.
- (c) Spindle attached to kinetochore in this stage.
- (d) This stage is followed by diakinesis.
- 72. Spindle fibre attach to kinetochores of homologous chromosome in -
 - (a) Metaphase I of meiosis
 - (b) Metaphase II of meiosis
 - (c) Both (a) and (b)
 - (d) Anaphase of mitosis
- 73. Identify the stage:



- (a) A = Anaphase I, B = Anaphase II
- (b) A = Anaphase II, B = Metaphase II
- (c) A = Anaphase II, B = Anaphase I
- (d) A = Anaphase I, B = Anaphase II
- 74. Dyads of cells are formed in –

А

- (b) Telophase II (a) Telophase -I
- (c) Diakinesis (d) Both (a) and (b)
- **75**. Longest phase of meiosis is :
 - (a) Prophase-I (b) Prophase-II

- (c) Metaphase-I (d) Telophase-II
- 76. During which of the given phases, homologous chromosomes separate, while sister chromatids remain associated at their centromere?
 - (a) Anaphase of mitosis
 - (b) Anaphase II
 - (c) Anaphase I
 - (d) Metaphase I
- 77. Prophase-I of meiosis is divided into phase based on chromosomal behaviour.
 - (b) 3 (a) 2
 - (c) 4 (d) 5
- 78. Identify correct sequence of prophase-I.
 - (a) Leptotene, Diplotene, Zygotene
 - (b) Zygotene, pachytene, leptotene
 - (c) Diplotene, Zygotene, Pachytene
 - (d) None of these
- 79. A bivalent is
 - (a) Pair of non-homologous chromosomes
 - (b) The complex formed by a pair of synapsed homologous chromosomes.
 - (c) Formed during pachytene statge
 - (d) More clearly visible at zygotene stage
- 80. Synaptonemal complex dissolves during-
 - (a) Leptotene (b) Diakinesis
 - (c) Zygotene (d) Diplotene
- 81. During which phase of meiosis centromere splits?
 - (a) Anaphase I (b) Anaphase II
 - (c) Telophase II (d) Telophase I
- 82. Choose the correct option with respect to Leptotene:
 - (i) It is the foremost and the short-lived stage of prophase
 - (ii) It begins when the process of compaction of chromosome is accomplished
 - (iii) Chromosome become visible under light microscope
 - (iv) It is followed by zygotene
 - (a) Statement (ii) is incorrect

- (b) i, ii and iii are correct while (iv) is incorrect
- (c) iii & iv are correct while i, ii are incorrect
- (d) All statements are correct
- 83. Zygotene is characterized by -
 - (i) chromosome start pairing
 - (ii) non-homologous chromosome paired
 - (iii) synapsis occurs between non-homologous chromosomes
 - (iv) formation of synaptonemal complex in homologous chromosomes
 - (v) formation of synaptonemal complex in non-homologous chromosomes
 - (a) i, ii, v (b) i, iii, iv
 - (c) i, iv (d) i, ii, iii, v
- 84. Bivalent stage is -
 - (a) complex formed by a pair of synapsed homologous chromosomes
 - (b) complex formed by a pair of synapsed nonhomologous chromosomes
 - (c) complex formed by four pair of synapsed homologous chromosomes
 - (d) complex formed by four pair of synapsed non-homologous chromosomes
- 85. Crossing over occurs in -
 - (a) Leptotene (b) Zzygotene
 - (c) Pachytene (d) Diplotene
- 86. Pachytene is a stage that is/are :-
 - (a) long lived than zygotene
 - (b) two chromatid of each bivalent chromosomes becomes distinct
 - (c) short lived than leptotene
 - (d) long lived than leptotene & short lived than zygotene
- 87. Choose the correct statement from the following:
 - (a) Pachytene is characterised by appearance of recombination nodule
 - (b) Recombination nodule is the site of crossing over
 - (c) Both (a) and (b)
 - (d) Recombination nodule formed in diplotene

- **88**. Given below are statements (I VI). Choose the correct set with respect to crossing over.
 - (I) It occurrs between sister chromatids of homologous chromosomes.
 - (II) It is enzyme mediated process.
 - (III) Recombinase enzyme is involved in it.
 - (IV) It occurs at recombination nodules.
 - (V) It occurs between non-sister chromatid of non-homologous chromosomes.
 - (VI) It occurs between sister chromatids of nonhomologous chromosomes.
 - (a) I, II, III & IV (b) V, II, III & IV
 - (c) II, III, IV & VI (d) II, III & IV
- 89. Diplotene is not characterized by-
 - (a) Dissolution of synaptonemal complex.
 - (b) Tendency of recombined non-homologous chromosomes of tetrad to separate from each other, except at sites of crossover
 - (c) Formation of chiasmata
 - (d) Tendency of recombined non-homologous chromosome of bivalent to separate from each other, except at sites of crossover.
- 90. Chiasmata is -
 - (a) X shaped structures
 - (b) Formed by recombined chromosome yet to be separated
 - (c) Site of cross over
 - (d) All of these
- **91**. Which stage of Meiosis I last for months or year in some vertebrate oocytes?
 - (a) Diakinesis (b) Diplotene
 - (c) Pachytene (d) Zygotene
- Topic 11

Meiosis-II

- 92. Meiosis II is initiated immediately after-
 - (a) Telophase I
 - (b) Prophase
 - (c) Cytokinesis I
 - (d) Chromosome have fully elongated

- **93**. Which one of the following resembles mitosis when sister chromatids split?
 - (a) Meiosis I (b) Meiosis II
 - (c) Both (a) and (b) (d) None of these
- **94**. At the beginning of Meiosis II, a cell contain four chromatid. What number of chromatid is expected to be in each daughter cell at end of telophase II?
 - (a) 4 (b) 2
 - (c) 8 (d) 16
- **95**. Find mismatched column:

	Column I	Column II
(a)	Metaphase - II	Chromosomes
		align at equator
		and microtubule
		from opposite
		poles of spindle
		get attached to
		kinetochores
		of non-sister
		chromatid
(b)	Prophase – II	Nuclear membrane
		disappear
(c)	Telophase – II	Formation of tetrad
		of cells
(d)	Anaphase – II	Splitting
		centromere
		which holds
		sister chromatid
		together, allow
		them to move
		toward opposite
		pole of cells

- **96**. Movement of chromatid toward opposite pole is achieved by:
 - (a) Shortening of microtubules attached to centromere
 - (b) Shortening of microtubules attached to kinetochores

- (c) Elongating of microtubules attached to kinetochores
- (d) Elongating of microtubules attached to centromere
- **97**. Which one of the following is the mechanism by which the conservation of specific chromosome number of each species is achieved across generations in sexually reproducing organism?
 - (a) Mitosis
 - (b) Meiosis only
 - (c) Meiosis & Mitosis
 - (d) None of these
- 98. Choose the correct statement about meiosis:
 - (a) Increases genetic variability of an individual of an organism
 - (b) Decreases genetic variability of an organism from one generation to other
 - (c) Reduction of chromosome by one-fourth
 - (d) Plays an important role in evolution

ANSWER KEY										
1. (b)	2. (c)	3. (a)	4. (d)	5. (c)	6. (a)	7. (c)	8. (c)	9. (c)	10. (a)	
11. (a)	12. (c)	13. (d)	14. (d)	15. (b)	16. (b)	17. (c)	18. (a)	19. (a)	20. (d)	
21. (d)	22. (c)	23. (d)	24. (b)	25. (d)	26. (b)	27. (a)	28. (c)	29. (c)	30. (d)	
31. (c)	32. (b)	33. (d)	34. (c)	35. (b)	36. (d)	37. (a)	38. (b)	39. (b)	40. (a)	
41. (a)	42. (a)	43. (c)	44. (a)	45. (b)	46. (a)	47. (c)	48. (b)	49. (d)	50. (d)	
51. (d)	52. (c)	53. (c)	54. (b)	55. (a)	56. (b)	57. (b)	58. (b)	59. (a)	60. (d)	
61. (a)	62. (c)	63. (d)	64. (d)	65. (d)	66. (d)	67. (c)	68. (d)	69. (c)	70. (a)	
71. (a)	72. (a)	73. (a)	74. (a)	75. (a)	76. (c)	77. (d)	78. (c)	79. (b)	80. (d)	
81. (b)	82. (c)	83. (a)	84. (a)	85. (c)	86. (a)	87. (c)	88. (d)	89. (d)	90. (b)	
91. (d)	92. (c)	93. (b)	94. (c)	95. (c)	96. (b)	97. (b)	98. (c)			