# **NEET CELL BIOLOGY PYQ MCQS TEST**

Q.1	Hydrolytic enzyr	nes are abundantly found in which cell organelles -
	(1) Ribosome	
	(2) Lysosome	
	(3) Oxysome	
	(4) Endoplasmic	reticulum
<b>Q.2</b>	Which of the foll	lowing is the site of lipid syntesis -
	(1) Rough ER	(2) Smooth ER
	(3) Golgi bodies	(4) Ribosome
<b>Q.3</b>	Ribosomes are pr	roduced in -
	(1) Nucleolus	(2) Cytoplasm
	(3) Mitochondria	(4) Golgibody
<b>Q.4</b>	Which of the foll	lowing pair lack the unit membrane -
	(1) Nucleus & E.	R.
	(2) Mitochondria	& Chloroplast
	(3) Ribosome &	nucleolus
	(4) Golgi body &	lysosome
<b>Q.5</b>	Golgybody is con	ncerned with -
	(1) Respiration	(2) Secretion
	(3) Excertion	(4) Degradation
<b>Q.6</b>	Which of the fo	ollowing occurs more than one and less than five in achromosome-
		[CPMT - 2002]
	(1) Chromatid	(2) Chromomere
	(3) Centromere	(4) Telomere
<b>Q.7</b>	The cells without	t nuclei are present in -
	(1) Vascular cam	ıbium
		[RPMT - 2002]
	(2) Root hair	
	(3) Companion c	ell
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	(4) Members of seive tube
<b>Q.8</b>	Plant with minimum number of chromosomes is -
	[RPMT - 2004]
	(1) Haplopappusgracilis
	(2) Salix tetrasperma
	(3) Poa
	(4) Cynodon
<b>Q.9</b>	Heteropycnosis is exhibited by -
	(1) Autosome [RPMT - 2004]
	(2) Chromatoid body
	(3) Nucleolus
	(4) Sex - chromosome
<b>Q.10</b>	Best material for the study of mitosis in
	laboratory - [CPMT 2002]
	(1) Anther (2) Root tip
	(3) Leaf tip (4) Ovary
<b>Q.11</b>	Mitosis occurs in - [RPMT 2002]
	(1) Haploid individuals
	(2) Diploid individuals
	(3) Both (1) & (2)
	(4) IN bacterial only
Q.12	The number of DNA in chromosome at G <sub>2</sub> state of cell cycle - <b>[RPMT 2002]</b>
	(1) One
	(2) Two
	(3) Four
	(4) Eight
Q.13	Which is correct for meiotic metaphase-I
	[RPMT 2002]
	(1) Bivalents are arranged at equator
	(2) Univalents are arranged at equator
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- (3) Non-homologus chromosomes forms pair
- (4) Spindle fibers are attached at chromomere
- Q.14 In which stage of meiosis the chromosome number reduces to half -

#### [RPMT 2004]

- (1) Anaphase-I
- (2) Anaphase-II
- (3) Telophase-I
- (4) Telophase-II
- Q.15 Chiasmata are formed as a result of -

#### [RPMT 2004]

- (1) Exchange of parts of paired homologus chromosome
- (2) Exchange to part of unpaired non-homologus chromosome
- (3) Duplication of parts of paired homologus chromosome
- (4) Loss of parts of unpaired non-homologus chromosome
- Q.16 If the n = 16 in plant cell then how many possible bivalent in metaphase I of meiosis [RPMT 2007]
  - (1) 32 Bivalents
- (2) 16 Tetravalents
- (3) 16 Bivalents
- (4) 32 Bivalents
- Q.17 The main function of lysosome is -

# [UTTARANCHAL PMT 2004]

- (1) Sexual reproduction
- (2) Extracellular digestion
- (2) Intracellular digestion
- (4) Both (2) and (3)
- Q.18 Which of the following maintains continuity between the water and lipid phases inside and outside the cells -

# [UTTARANCHAL PMT 2004]

(1) Cell wall

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(2) Lecithin (3) Cell vacuole (4) Cell membrane of woody plants **Q.19** The membrane surrounding cell vacuole is called -**[UTTARANCHAL PMT 2004]** (1) Tonoplast (2) Cell wall (3)plasma membrane (4) cell membrane **Q.20** The diagrammatic representation of chromosomes is known as -**[UTTARANCHAL PMT 2006]** (2) karyotype (1) idiogram (3) holotype (4) homotype Q.21 Thread like structures that are composed of the nuclear DNA of eukaryotic cells and are the carrier of genetic information. These structures were known as chromosomes. The term "chromosome" was given -**[UTTARANCHAL PMT 2006]** (1) Waldeyer (2) Balbiani (3) Purkinje (4) Sutton Q.22 Chromosomes, present in prolonged prophase in the salivary glands of Drosophila are -**[UTTARANCHAL PMT 2006]** (1) Polytene chromosome (2) B-Chromosomes (3) Lampbrush chromosome (4) supenumerary chromosomes **Q.23** Chromosomes at anaphase of various shapes due position are to

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**[UTTARANCHAL PMT 2006]** 

(1) Setellite

(2) Chromonema

(3) Centromere

- (4) DNA
- Q.24 The term 'nucleosome' was given by oudetolins' and olins called these particle as "nu" particles which histone is absent in nucleosome -

#### [UTTARANCHAL PMT 2006]

 $(1) H_1$ 

 $(2) H_2$ 

(3) H<sub>3</sub>a

- $(4) H_4$
- Q.25 Nucleosome given beaded appearance to chromosome. They help in packing of DNA in the chromosomes. A nucleosome has -

#### **[UTTARANCHAL PMT 2006]**

- (1) about 2 turns of DNA
- (2) 8 histone molecules of 4 types
- (2 mols each of H<sub>2</sub> a, H<sub>2</sub>b, H<sub>3</sub> and H<sub>4</sub>)
- (3) 200 nitrogen base pairs
- (4) all of the above
- Q.26 Salivary glands chromosome were discovered by Balbiani (1881) from salivary glands of **[UTTARANCHAL PMT 2006]** larva of -
  - (1) Chironomous (2) Drosophila
  - (3) Silk worm
- (4) Lac worm
- Q.27 In SAT chromosome, SAT (Satellite) is terminal part of chromosome beyond secondary constriction. It contains -

# **[UTTARANCHAL PMT 2006]**

- (1) DNA
- (2) RNA
- (3) repetitive DNA
- (4) None of these
- Q.28 Material exchange through nucleopores is faciliate by -

# **[UTTARANCHAL PMT 2006]**

- (1) Lamina propria(2) lipid layer
- (3) Nucleoplasmin (4) Nucleoles
- **Q.29** Centriole is -**[UTTARANCHAL PMT 2006]**

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- (1) Microtubuler and membraneless
- (2) Absent in Amoeba, red algae, blue-green algae conifers and angiosperm and made up of peripheral Triplet microtubuls
- (4) Basically locomotary and their role in spindle formation is secondary
- (4) All of the above
- Q.30 Association of m-RNA with several ribosomes is called –

#### [West Bengal 2007]

- (1) Polysome
- (2) Informosome
- (3) Both (1) and (2)
- (4) None of these
- Q.31 G<sub>2</sub> phase comes between -

#### \[West Bengal 2007]

- (1) S and M phase
- (2) G<sub>1</sub> and S phase
- (3) S and D phase
- (4) G<sub>1</sub> and M phase
- Q.32 Lampbrush chromosome is found in -

# [Wes Bengal 2007]

- (1) Oocyte of amphibians
- (2) Salivary gland of mosquito
- (3) Silk gland of silkworm
- (4) None of the above
- Q.33 Prokaryotic ribosomes are -

# [West Bengal 2007]

- (1) 50s
- (2) 60s
- (3) 70s
- (4) 80s
- Q.34 Mesosomes of prokaryotes perform function similar to -

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	[West Bengal 2007]
	(1) Mitochondria (2) Peroxysomes
	(3) Lysosomes (4) Ribosomes
Q.35	RER is rough bucause of the presence of - [West Bengal 2007]
	(1) Volutin granules on its
	(2) Ribosomes on its surface
	(3) Lysosomes on its surface
	(4) Mitochondria on its surface
Q.36	Crossing over takes place between -
	[West Bengal 2007]
	(1) 2 sister chromatids
	(2) 2 non-sister chromatids
	(3) 3 homologous chromosomes
	(4) 4 non-homologous chromosomes
Q.37	Cellular recognition is fasciliated by components of plasmamembrane. These
	components are generally - [West Bengal 2007]
	(1) Protein molecules alone
	(2) Lipid molecules alone
	(3) Both lipid and protein molecules
	(4) Gloycolipids and glycoproteins
Q.38	The significance of meiosis lies in -
	[C.G. PMT 2004]
	(1) Maintaining constancy in the number of chromosomes in an organism
	(2) Production of genetic variability in the population of species
	(3) Reduction of the diploid number o
	chromosomes to haploid
	(4) All of the above
Q.39	
	[C.G. PMT 2004]
	(1) Chloroplast (2) Ribosome

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	(3) Leucoplast	(4) Nucle	us			
Q.40	A mature plant ce	ell has -				
	[C.0	G. PMT 2004]				
	(1) Cell wall and	protoplasm				
	(2) Protoplasm an	nd vacuole				
	(3) Vacuole and o	cell wall				
	(4) Protoplasm ce	ell wall and vacuo	le			
Q.41	The larger sub-un	nit in 80 s ribosom	e is -			
	[C.	G. PMT 2004]				
	(1) 50 s	(2) 60 s				
	(3) 40 s	(4) zero s				
Q.42	Golgi bodies are	absent in -				
	[ <b>C</b>	.G. PMT 2004]				
	(1) Plants	(2) Bacteria				
	(3) Animals	(4) Eukaryotic o	ells			
Q.43	Endoplasmic retion	culum is more dev	veloped in -	[C.G. PMT 2004]		
	(1) Green cells	(2) Young	g cells			
	(3) Mature cells	(4) Bacteriopha	ge			
<b>Q.44</b>	Mitochondria are	related to -				
	[C.	G. PMT 2004]				
	(1) Prokaryotic ce	ell (2) Plasm	ids			
	(3) Prion	(4) Virus				
Q.45	The main function	n of lysosomes is	-			
	[C	.G. PMT 2004]				
	(1) Digestion					
	(2) Replication					
	(3) Translation					
	(4) Translocation					
Q.46	Which o membrane - [C.G		following	has	a	single

	(1) Ribosome	(2) Peroxisome
	(3) Nucleus	(4) Centrosome
Q.47	L-shaped chromo	somes are called -
	[C.G. PM	T 2004]
	(1) Sex-chromoso	ome
	(2) Acrocentric	
	(3) Telocentric	
	(4) Sub-metacent	ric
Q.48	Pairing of homolo	ogous chromosomes takes place in - [C.G. PMT 2004]
	(1) Pachytene	
	(2) Zygotene	
	(3) Diplotene	
	(4) None of these	
Q.49	How many meio	tic divisions will be necessary to produce two hundred pollen grain -
	[C.G. PMT 2004	
	(1) 100	(2) 99
	(3) 50	(4) 200
<b>Q.50</b>	Who coined the to	erm chromosome -
	[C.	G. PMT 2004]
	(1) Balbiani	(2) Waldeyer
	(3) Sutton	(4) Purkinje
Q.51	A chromosome ha	aving sub-terminal centromere is calle [C.G. PMT 2004]
	(1) Telocentric	(2) Acrocentric
	(3) Metacentric	(4) Sub-metacentric
Q.52	Which is the char	racter of mitosis -
[C.0	G. PMT 2005]	
	(1) Leptotene	
	(2) Zygotene	
	(3) Pachytene	
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	(4) None of the ab	ove
Q.53	How many types of	of cells are known -
	[C.G. PM]	[ 2005]
	(1) One	(2) Two
	(3) Three	(4) Four
Q.54	In which mitosis d	oes-not occur -
	[C.G.	PMT 2005]
	(1) Green algae	
	(2) Fungi	
	(3) Bacteria	
	(4) Higher plants	
Q.55	A mature plant cel	1 has -
	[C.G.	. PMT 2005]
	(1) Cell wall	
	(2) Vacuole	
	(3) Protoplasm	
	(4) All of the abov	e
Q.56	Repulsion of homo	ologous chromosomes takes place in - [C.G. PMT 2005]
	(1) Zygotene	(2) Leptotene
	(3) Diakinesis	(4) Pachytene
<b>Q.57</b>		the type of ribosome is -[C.G. PMT 2005]
	(1) Only 70 s	
	(2) Only 80 s	
	(3) 70 s and 80 s b	oth
	(4) Only 50 s	
	Synthesis of DNA	takes place in -
[C.C	G. PMT 2005]	
	$(1) G_1$	
	$(2) G_2$	
	(3) S	
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Q.59 The genetic material of procaryotic cells is called - [C.G. PMT 2005]

(2) Nucleolus

(4) Centrosome

(4) None of these

(1) Nucleus

(3) Nucleoid

<b>Q.60</b>	Which organ	nelle of plant o	ells se	crets polys	accharide to ma	ke cell walls -			
		[C.G. PMT 2	2005]						
	(1) Golgi-bo	odies (	(2) Lys	osome					
	(3) Mitocho	ndria (4) Chl	oropla	st					
Q.61	RNA contai	ns which of th	e follo	wing base,	in place of Thy	mine of DNA -			
	[C.G	6. PMT 2005]							
	(1) Thymine	e							
	(2) Uracil								
	(3) Adenine								
	(4) None of	these							
Q.62	The main fu	nction of lyso	somes	is in -					
		[C.G. PMT	2005]						
	(1) Only intracellular digestion								
	(2) Only Extracellular digestion								
	(3) Both int	racellular and	extrace	llular dige	stion				
	(4) None								
Q.63	Eukaryotic	cell has -							
	[C.G	S. PMT 2005]							
	(1) One chro	omatin fiber							
	(2) Definite nucleus								
	(3) Incipient	t nucleus							
	(4) None of	these							
Q.64	Four	daughter		cells	formed	after	meiosis		
	are -	[C.G. PMT	2005]						
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- (1) Genetically similar (2) Genetically different (3) Anucleate (4) Multinucleate Q.65 The synthesis of lipids and proteins is associated with - [C.G. PMT 2005] (1) Endoplasmic reticulum (2) Miochondria (3) Chloroplast (4) Lysosomes Q.66 Cell theory was proposed by -[C.G. PMT 2005] (1) Schleiden and Schwann (2) Watson and Crick (3) Drawin and Wallace (4) Mendel and Morgan Q.67 During meiosis the division of centromere takes place in -[C.G. PMT 2005] (1) First prophase (2) First anaphase (3) Second metaphase (4) Second anaphase Q.68 Which one of the following is not found in animal cell - [C.G. PMT 2005] (2) Golgi bodies (1) Nucleus
- Q.69 Unit membrane consists of -

(3) Chloroplast

[C.G. PMT 2005]

- (1) Lipid + Sugar + Lipid
- (2) Protein + Lipid + Protein
- (3) Lipid + Protein + Lipid
- (4) Protein

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(4) Mitochondria

<b>Q.70</b>	Principal constitu	uents of chromosomes are - [C.G. PMT	[ 2005]				
	(1) DNA + Protein (2) DNA						
	(3) RNA	(4) tRNA					
<b>Q.71</b>	Shape of chromo	some is determined by -[C.G. PMT 20	05]				
	(1) Telomere	(2) Centromere					
	(3) Chromomere	(4) Centrosome					
<b>Q.72</b>	In a bacterial cel	l the respiratory enzymes are found in -					
	[0	C.G. PMT 2005]					
	(1) Mitochondria	ı					
	(2) Chondrisome						
	(3) Mesosome						
	(4) Centrosome						
Q.73	The cell wall of	Spirogyra is made up of - [C.G. PMT 2	2005]				
	(1) Cellulose	(2) Suberin					
	(3) Lignin	(4) Chitin					
<b>Q.74</b>	The main function	on of Golgi complex is -	[C.G. PMT 2005]				
	(1) Translocation	1					
	(2) Phosphorylat	ion					
	(3) Glyco-oxidat	ion					
	(4) Fermentation						
Q.75		spindle fibres are made up of protein -	[Jharkhand 2006]				
	(1) Myoglobin	(2) Tubulin					
	(3) Albumin						
Q.76	-	proteins synthesized in -					
	[Jharkha						
	(1) G <sub>1</sub> -phase	(2) G <sub>2</sub> -phase					
	(3) S-phase	(4) G <sub>0</sub> -phase					
<b>Q.77</b>	Choose the incom	rect match -					
	[Jh	arkhand 2006]					
	(1) Nucleus: RN	JA .					
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	(2) Lysosome: prot	ein synthesis								
	(3) Mitochondria: r	espiration								
(4) Cytoskeleton : microtubules										
Q.78	Rough endoplasic re	eticulum is associated with	_							
	[Jharkhand 2006]									
	(1) fat synthesis									
	(2) steroid synthesis	<b>S</b>								
	(3) protein synthesis	S								
	(4) all of these									
Q.79	Resolving power of	electron microscope is -	[Jharkhand 2006]							
	(1) 1 □	(2) 10 Å								
	(3) 100 Å	(4) 1000 Å								
Q.80	Number of Barr boo	lies in XXXXY is -								
	[Jharl	khand 2006]								
	(1) 1 (2) 2	(3) 3 (4) 4								
Q.81	The study related to	the structure and function	of a cell is called as -							
	[Jharkhand 2005]									
	(1) Physiology	(2) Cell biology								
	(3) Histology	(4) Cytology								
Q.82	The longest phase o	f meiosis (I) is -								
	[Jharkhand	2005]								
		(2) prophase I								
		(4) telophase I								
Q.83	Fluid mosaic model	was given by -								
		khand 2006]								
	(1) Knoll and Ruska	-								
	(2) Singer and Rusk									
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	(3) Singer and Nico	olson			
	(4) Bateson and Pur	nnet			
Q.84	Colchicine prevents	s the mitosis of cell at - [Jhan	khand 2006	]	
	(1) Prophase stage				
	(2) Anaphase stage				
	(3) Telophase stage				
	(4) Metaphase stage	e			
Q.85	The number of DN	A in chromosome at G <sub>2</sub> stage	<del>-</del>	[Jharkhand 2006]	
	(1) One	(2) Two			
	(3) Four	(4) Eight			
<b>Q.86</b>	The characteristic of	of blue-green algae is - [Jhar]	khand <b>2</b> 006]		
	(1) DNA without h	istone			
	(2) Nucleus absent				
	(3) Nuclear membra	ane absent			
	(4) All of the above				
Q.87	Cell wall of a cell is	s removed, the remaining is c	alled - [Bi	har 2005]	
	(1) Etioplast	(2) Aleuroplast			
	(3) Amyloplast	(4) Protoplast			
<b>Q.88</b>	Movement against	concentration gradient is call	ed -[ <b>Bihar 2</b> 0	005]	
	(1) Osmosis				
	(2) Active transport	t			
	(3) Diffusion				
	(4) Passive transpor	rt			
Q.89	Synapsis occurs in	phase of meiosis -	[Bihar 20	005]	
	(1) Zygotene	(2) Diplotene			
		(4) Leptotene			
Q.90	Which one is presen	nt in both prokaryotic and eu	caryotic cell	- [Bihar 2004]	
	(1) Ribosome				
	(2) Mitochondria				
	(3) ER				
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(4) Nucleus

Q.91 Centromere is also called -

#### [Bihar 2003]

- (1) Chromomere
- (2) Secondary constriction
- (3) Primary constriction
- (4) Chromonema
- Q.92 In "singer and Nicolson" model of plasma membrane, the extrinsic proteins are -[Bihar 2002]
  - (1) Tightly associated with intrinsic protein and can be easily separated
  - (2) Loosely associated with intrinsic protein
  - (3) Loosely associated with intrinsic protein and can be easily separated
  - (4) Loosely associated with intrinsic protein and can't be easily separated
- Q.93 Ribosomes are associated with -

### [Bihar 2002]

- (1) RNA synthesis
- (2) Protein synthesis
- (3) Enzyme mobilisation
- (4) DNA synthesis
- Q.94 Which organelle is not found in an animal cell [Bihar 2001]
  - (1) Peroxysome
  - (2) Ribosome
  - (3) Lysosome
  - (4) None of these
- Q.95 Actin fibre is present in [Bihar 2001]
  - (1) Cilia
  - (2) Flagella
  - (3) Carbohydrates

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- (4) Microfilaments
- Q.96 Meiosis can be observed in -

#### [Bihar 2006]

- (1) Tapetal cells
- (2) Megaspores
- (3) Micropores
- (4) Spore mother cells
- Q.97 Carrier proteins are involoved in -

### [Bihar 2006]

- (1) Transport of enzymes
- (2) Water transport
- (3) Active transport of ions
- (4) Passive transport of gases
- Q.98 The recent model for plasma membrane proposed by Singer and Nicolson is -

# [Bihar 2005]

- (1) Molecular-lipid model
- (2) Lamellar model
- (3) Unit membrane model
- (4) Fluid mosaic model
- Q.99 Significance of meiosis lies in -

# [Bihar 2006]

- (1) Reduction of chromosome number to one half
- (2) Maintaning constancy of chromosome number during sexual reproduction
- (3) Production of genetic variability
- (4) All of the above
- Q.100Function of mitochondria is -

# [UP CPMT 2002]

(1) Excretion

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	(2) Respiration					
	(3) Digestion					
	(4) Excretion and respirat	ion				
<b>Q.</b> 1	01Term basal body is associ	iated with o	development of -	[UP CPM	IT 2003]	
	(1) cilia and flagella	(2) cell pla	ite			
	(3) phragmoplast (4) kir	netochore				
<b>Q.</b> 1	02Golgi body originates for	m -				
	[UP CPMT	2003]				
	(1) lysosome					
	(2) Endoplasmic reticulur	n				
	(3) mitochondria					
	(4) cell memrane					
<b>Q.</b> 1	03Lipid molecules in plasm	a membran	ne are arranged in	which man	nner -	
	[UP CPMT 2003]					
	(1) scattered					
	(2) series					
	(3) alternate					
	(4) head parallel					
<b>Q.</b> 1	04Structure of nuclear mem	brane helps	s in - [UP CPM'	Т 2003]		
	(1) organisation of the spi	indle				
	(2) synapsis of homologo	us				
	chromosome					
	(3) Nucleo-cytoplasmic e	xchange of	fmaterial			
	(4) anaphasi	c	separation		of	daughter
	chromosome					
<b>Q.</b> 1	<b>05</b> Hydrolytic enzymes are s	tored in -				
	UP CPMT					
	(1) Golgi bodies					
	(2) Lysosomes					
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(3) Endoplasmic r	eticulu	m			
(4) Mitochondria					
Ribosome may als	so calle	ed -			
<b>[U</b> ]	P CPM	IT 2002]			
(1) Microsome		(2) Dictyosome	;		
(3) Ribonucleopro	otein	(4) Oxysomes			
Genes are present	in -				
[UP	<b>CPM</b> 7	Γ 2003]			
(1) Chromosomes	(2) La	amellae			
(3) Plasma memb	rane	(4) Mesosomes			
The cromosome s	howing	g L-shaped struc	ture by the pres	sence of centrome	ere is termed as -
[MP PM]	Г <b>2003</b> ]				
(1) Acentric	(2) M	letacentric			
(3) Sub-metacentr	ric	(4) Telocentric			
Chromosomes car	ı be see	en best during -	[MP PMT 200	3]	
(1) Prophase	(2) M	letaphse			
(3) Anaphase		(4) Telophase			
What w	rill	be	the	gametic	chromosome
number of a cell,	if soma	tic cell have 40	chromosome -	[MP PMT 20	003]
(1) 10	(2) 20	)			
(3) 30	(4) 40	)			
Who coined the te	erm 'ce	11' -			
[MP	PMT	2003]			
(1) Purkinje					
(2) Robert Brown					
(3) Robert Hooke					
(4) Hugo von Mol	hl				
In which of the f PMT 2003]	followi	ng stage chromo	osomes are arra	anged at equator	ial plate - [MP
CK FREE TEST PA	APERS	www.ravites	stpapers.com	& www.ravi	testpapers.in
	(4) Mitochondria Ribosome may als  [U] (1) Microsome (3) Ribonucleopro Genes are present  [UP (1) Chromosomes (3) Plasma member (3) Plasma member (3) Sub-metacentric (3) Sub-metacentric (4) Prophase (3) Anaphase (4) Prophase (5) Anaphase (6) What we have a cell, sub-metacentric (6) Prophase (7) Prophase (8) Anaphase (9) What we have a cell, sub-metacentric (1) Prophase (2) Robert Brown (3) Robert Brown (3) Robert Hooke (4) Hugo von Molen which of the first part of the first p	(4) Mitochondria Ribosome may also called [UP CPM] (1) Microsome (3) Ribonucleoprotein Genes are present in - [UP CPM] (1) Chromosomes (2) La (3) Plasma membrane [The cromosome showing [MP PMT 2003] (1) Acentric (2) M (3) Sub-metacentric Chromosomes can be seed (1) Prophase (2) M (3) Anaphase  What will number of a cell, if soma (1) 10 (2) 20 (3) 30 (4) 40 Who coined the term 'ce [MP PMT] (1) Purkinje (2) Robert Brown (3) Robert Hooke (4) Hugo von Mohl (5) Robert Hooke (4) Hugo von Mohl (6) which of the following (7) PMT 2003]	[UP CPMT 2002]  (1) Microsome (2) Dictyosome (3) Ribonucleoprotein (4) Oxysomes Genes are present in -  [UP CPMT 2003]  (1) Chromosomes (2) Lamellae (3) Plasma membrane (4) Mesosomes The cromosome showing L-shaped struction [MP PMT 2003]  (1) Acentric (2) Metacentric (3) Sub-metacentric (4) Telocentric Chromosomes can be seen best during -  (1) Prophase (2) Metaphse (3) Anaphase (4) Telophase (4) Telophase (5) Anaphase (4) Telophase (6) Telophase (7) Prophase (8) Metaphse (9) Metaphse (1) 10 (2) 20 (2) (3) 30 (4) 40 (4) Who coined the term 'cell' -  [MP PMT 2003]  (1) Purkinje (2) Robert Brown (3) Robert Hooke (4) Hugo von Mohl (5) myhich of the following stage chromospent (7) PMT 2003]	A) Mitochondria Ribosome may also called -  [UP CPMT 2002]  (1) Microsome (2) Dictyosome (3) Ribonucleoprotein (4) Oxysomes Genes are present in -  [UP CPMT 2003]  (1) Chromosomes (2) Lamellae (3) Plasma membrane (4) Mesosomes The cromosome showing L-shaped structure by the prese  [MP PMT 2003]  (1) Acentric (2) Metacentric (3) Sub-metacentric (4) Telocentric Chromosomes can be seen best during - [MP PMT 200]  (1) Prophase (2) Metaphse (3) Anaphase (4) Telophase  What will be the number of a cell, if somatic cell have 40 chromosome -  (1) 10 (2) 20  (3) 30 (4) 40  Who coined the term 'cell' -  [MP PMT 2003]  (1) Purkinje (2) Robert Brown (3) Robert Hooke (4) Hugo von Mohl (5) which of the following stage chromosomes are arrapmT 2003]	A) Mitochondria Ribosome may also called -  [UP CPMT 2002]  (1) Microsome (2) Dictyosome (3) Ribonucleoprotein (4) Oxysomes Genes are present in -  [UP CPMT 2003]  (1) Chromosomes (2) Lamellae (3) Plasma membrane (4) Mesosomes The cromosome showing L-shaped structure by the presence of centrome  [MP PMT 2003]  (1) Acentric (2) Metacentric (3) Sub-metacentric (4) Telocentric Chromosomes can be seen best during - [MP PMT 2003]  (1) Prophase (2) Metaphse (3) Anaphase (4) Telophase  What will be the gametic number of a cell, if somatic cell have 40 chromosome -  [MP PMT 2003]  (1) 10 (2) 20  (3) 30 (4) 40  Who coined the term 'cell' -  [MP PMT 2003]  (1) Purkinje (2) Robert Brown (3) Robert Hooke (4) Hugo von Mohl (n) which of the following stage chromosomes are arranged at equator

	(1) Anaphase	(2) Metapl	hase		
	- · ·	(4) Telophase			
<b>Q.11</b> .	3During	mitosis	number	of	chromosomes
		[MP PMT 2003]			
	(1) Change				
	(2) No change				
	(3) May be cha	ange if cell is mature			
	(4) May be cha	ange if cell is immatur	re		
O 11	4Cl		:: d d1:	MD DMT 20051	
Q.11		having centromere in	its middle is -	MIP PMIT 2005	
	(1) Acrocentric				
	(2) Telocentric				
	(3) Metacentri				
	(4) Submetace	ntric			
Q.11:	Single n	nembrance bound is -			
		[MP PMT 2005]	]		
	(1) Lysosome	(2) Plastid			
	(3) Nucleus	(4) Mitochondria	ı		
Q.11	<b>6</b> Which of the f	following do not posse	ess lipoproteinace	ous membrane -	
		[MP PMT 2006]			
	(1) Lysosomes	S			
	(2) Lomasome	es			
	(3) Ribosomes	}			
	(4) Sphaeroson	mes			

- Q.117In meiosis chromosome number becomes [MP PMT 2006]
  - (1) Half of its parent chromosome
  - (2) Same as that of parent chromosome
  - (3) One fourth of its parent chromosome
  - (4) None of the above

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Q.118Centrosome is not present in -
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### [MP PMT 2003]

- (1) Cells of higher plants
- (2) Cells of lower plants
- (3) Cells of higher animals
- (4) Cells of lower animals
- Q.119Site of protein synthesis is -

#### [MP PMT 2005]

- (1) Ribosome
- (2) SER
- (3) Golgi bodies
- (4) Lysosome
- Q.120To study the living cells without staining, which of the following microscopes can be used? [PB PMT 2002]
  - (1) SEM

- (2) Flourescent
- (3) Phase contrast
- (4) TEM
- Q.121 Molecular biology is the study of :-

#### [CET Chd. 2002]

- (1) Structure, function and cell reproduction
- (2) Physio-biochemiccal studies of biomolecules
- (3) studying tissues under microscope
- (4) metabolic activitity of life
- Q.122The subcelluar components can be separated by -

# [CMC Ludhiyann 2002,2003]

- (1) Paper chormatography
- (2) autoradiography
- (3) gel electrophoresis
- (4) differential and density gradient centrifugation
- Q.123 The choromosome separation during metaphase can be best studies by -

# [CET Chd. 2002,2003]

- (1) phase contrast microscope
- (2) TEM

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(3) X-ray technique				
(4) Scanning electron microscope				
Q.124The techniqe chromatography was developed by - [BVP Pune 2002]				
(1) Wilkins (2) Georgy Gey				
(3) Tswett (4) Zernicks				
Q.125Which of the following dye is used for staining cell organalle, mitochondria?				
[PB PMT 2003]				
(1) Janus Green (2) Saffranin				
(3) Azure B (4) Crystal violet				
Q.126In fluid mosaic model of plasma membrane - [CBSE - 2002]				
(1) Upper layer is non-polar and hydrophilic				
(2) Polar layer is hydrophobic				
(3) Phospholipids form a bimolecular layer in middle part				
(4) Proteins form a middle layer				
where lipids and integral proteins can diffuse randomly. In recent years, this model has been modified in several respects. In this regard, which of the following statements is incorrect - [CBSE - 2005]  (1) Proteins can also undergo flip-flop movements in the lipid bilayer  (2) Many proteins remain completely embedde within the lipid bilayer  (3) Proteins in cell membranes can travel within the lipid bilayer  (4) Proteins can remain confined within certain domains of the membranes				
Q.128Which one of the following is not a constituents of cell membrane -  [CBSE - 2007]  (1) Cholesterol (2) Glycolipids  (3) Proline (4) Phospholipids  Q.129The main organelle involved in modification and routing of newly synthesized protein to their destinations is - [CBSE - 2005]				
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- (1) Endoplasmic Reticulum
- (2) Lysosome
- (3) Mitochondria
- (4) Chloroplast
- Q.130Chlorophyll in chloroplasts is located in -

# [CBSE - 2005]

- (1) Grana
- (2) Pyrenoid
- (3) Stroma
- (4) Both grana and stroma
- Q.131 Which of the following statements regarding mitochondrial membrane is not correct?

### [CBSE - 2006]

- (1) The outer membrane resembles a sieve
- (2) The outer membrane is permeable to all kinds of molecules.
- (3) The enzymes of the electron transfer chain are embedded in the outer membrane.
- (4) The inner membrane is highly convoluted forming a series of infoldings
- Q.132Polysome is formed by -

# [CBSE - 2008]

- (1) A ribsome with several subunits
- (2) Ribosomes attached to each other in a linear arangement
- (3) Several ribsomes attached to a single mRNA
- (4) Many ribsonmes attached to a strand of endoplasmic reticulum
- Q.133 Vacuole in a plant cell -

# [CBSE - 2008]

- (1) Lack membrane and contains air
- (2) Lacks membrane and contains water and excretory substances
- (3) Is membrane-bound and contains stroage protein and lipids
- (4) Is membrane-bound and contains water and excretory substances
- Q.134In germinating seeds fatty acids are degraded exclusively in the -

# [CBSE - 2008]

(1) Peroxisomes (2) Mitochondria

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- (3) Proplastids (4) Glyoxysomes
- Q.135Keeping in view the fluid mosaic model for the structure of cell membrane, which one of the following statements is correct with respect to the movment of lipids and proteins from one lipid monolayer to the other (described as flipflop movement)? [CBSE 2008]
  - (1) While proteins can flip-flop, lipids can not
  - (2) Neither lipids, nor proteins can flip-flop
  - (3) Both lipids and proteins can flip-flop
  - (4) While lipids can rarely flip-flop, proteins can not
- Q.136Three of the following satements regarding cell organelles are correct while one is wrong. Which one is wrong [AIMS-2005]
  - (1) Lysomes are double membraned vesicles budded off form golgiappratus and contain digestive enzymes
  - (2) Endoplasmic reticulum consists of a network of membranous tubules and helps in transport, sytehsis and secretion
  - (3) Leucoplasts are bound by two membranes lack pigment but contain their own DNA and protein synthesizing machinery
  - (4) Spharosomes are single membrane bonds and are associated with synthesis and storage of lipids
- Q.137In which one of the following would you expect to find glyoxysomes -

## [AIMS- 2005]

- (1) Endosperm of wheat
- (2) Endosperm of castor
- (3) Palisade cells in leaf
- (4) Root hairs
- Q.138Which of the following statements regarding cilia is not correct -

## [CBSE- 2006]

- (1) Cilia contain an outer of nine doublet microtubules surrounding two single microtubules
- (2) The organized beating of cilia is controlled by fluxes of Ca<sup>2+</sup> across the membrane
- (3) Cilia are hair-like cellular appendages.

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- (4) Microtubules of cilia are composed of tubulin
- Q.139The contractile protein of skeletal muscle involving ATPase activity is [CBSE-2006]
  - (1) □-Actinin (2) Troponin
  - (3) Tropomyosin (4) Myosin
- Q.140 Select the wrong statement from the following- [CBSE-2007]
  - (1) Both chloroplasts and mitochondria contain an inner and outer membrane
  - (2) Both chloroplast and mitochondria have an internal compartment, the thylakoid space bounded by the thylakoid membrane.
  - (3) Both chloroplasts and mitochondria contain DNA
  - (4) The chloroplasts are generally much larger than mitochondria
- Q.141The telomeres of euaryotic chromosomes consists of short sequences of [CBSE-2004]
  - (1) Cytosine rich repeats
  - (2) Adenine rich repeats
  - (3) Guanine rich repeats
  - (4) Thymine rich repeats
- Q.142If you are provided with root-tips of onion in your class and are asked to count the chromosomes which of the following stages can your most convnintly look into [CBSE-2004]
  - (1) Telophase (2) Anaphase
  - (3) Prophase (4) Metaphase
- Q.143 Protein synthesis in an animal cell occurs- [CBSE-2005]
  - (1) On ribosomes present in cytoplasm as well as in mitochondria
  - (2) On ribosomes present in the nucleolus as well as in cytoplasm
  - (3) Only on ribosomes attached to the nulecar envelope and endoplasmic reticulum
  - (4) Only on the ribosomes present in cytosol
- **Q.144**Telomerase is an enzyme which is a -

[CBSE- 2005]

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- (1) RNA
- (2) Ribonucleoprotein
- (3) Repetitive DNA
- (4) Simple protein
- Q.145The length of DNA moelcule greatly exceeds the dimensions of the nucleus in eukaryotic cells. How is the DNA accomodated? [CBSE-2007]
  - (1) Deletion of non-essential genes
  - (2) Supper-coiling in nucleosomes
  - (3) DNase digestion
  - (4) Through elimination of repetitive DNA
- Q.146Which one of the following proceeds re-formation of the nuclear envelope during M phase of the cell cycle [CBSE 2004]
  - (1) Transcription from chromosomes and reassembly of the of the nuclear lamina
  - (2) Formation of the contractile ring and formation of the phragmoplast
  - (3) Formation of the contractile ring and transcription from chromosome
  - (4) Decondensation from chromosomes and reassembly of the nuclear lamina
- Q.147Crossing over that results in genetic recombination in higher organisms occurs between [CBSE 2004]
  - (1) Non-sister chromatids of a bivalent
  - (2) Two daughter nuclei
  - (3) Two different bivalents
  - (4) Sister chromatids of a bivalents
- Q.148In the somatic cell cycle -

## [CBSE 2004]

- (1) DNA replication takes place in S-phase
- (2) A short interphase is followed by a long mitotic phase
- (3) G<sub>2</sub> phase follows mitotic phase
- (4) In G<sub>1</sub> phase DNA content is double the amount of DNA present in the orginal cell

- Q.149When synapsis is complete all along the chromosome, the cell is said to have entered a stage called [CBSE 2004]
  - (1) Zygotene
- (2) Pachytene
- (3) Diplotene
- (4) Diakinesis
- Q.150 Many cells function properly and divide mitotically though they do not have -

#### [AIIMS 2005]

- (1) Plasma membrane
- (2) Cytoskeleton
- (3) Mitochondria
- (4) Plastids
- Q.151 Centromere is required for -

#### [AIIMS 2005]

- (1) Movement of chromosomes towards poles
- (2) Cytoplasmic cleavage
- (3) Crossing over
- (4) Transcription
- Q.152At what stage of the cell cycle are histone proteins synthesized in a eukaryotic cell [CBSE 2005]
  - (1) During telophase
  - (2) During S-phase
  - (3) During G<sub>2</sub>-stage of prophase
  - (4) During entire prophase
- Q.153Plasmodesmata are [CBSE 2009]
  - (1) Connections between adjacent cells
  - (2) Lignified cemented layers between cells
  - (3) Locomotary structures
  - (4) Membranes connecting the nucleus with plasmalemma
- Q.154Synapsis occurs between -[CBSE 2009]

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- (1) Two homologous chromosomes
- (2) A male and a female gamete
- (3) mRNA and ribosomes
- (4) Spindle fibres and centromere
- Q.155Middle lamella is composed mainly of -

### [CBSE 2009]

- (1) Phosphoglycerides
- (2) Hemicellulose
- (3) Muramic acid
- (4) Calcium pectate
- Q.156Cytoskeleton is made up of -

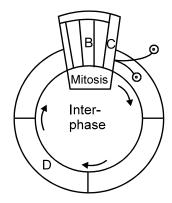
### [CBSE 2009]

- (1) Proteinaceous filaments
- (2) Calcium carbonate granules
- (3) Callose deposits
- (4) Cellulosic microfibrils
- Q.157The cell junctions called tight, adhering and gap junctions are found in -

# [CBSE 2009]

- (1) Neural tissue
- (2) Muscular tissue
- (3) Connective tissue
- (4) Epithelial tissue
- Q.158Given below is a schematic break-up of the phases/stages of cell cycle –

[CBSE 2009]



Which one of the following is the correct indication of the state/phase in the cell cycle -

- (1) A Cytokinesis
- (2) B Metaphse
- (3) C Karyokinesis
- (4) D Synthetic phase

**Q.159**There is no DNA in - [CBSE 2009]

- (1) Hair root
- (2) An enucleated ovum
- (3) Mature RBCs
- (4) A mature spermatozoan
- Q.160A student wishes to study the cell structure under a light microscope having 10X eye piece and 45X objective. He should illuminate the object by which one of the following colours of light so as to get the best possible resolution? [CBSE 2005]
  - (1) Yellow
- (2) Grren
- (3) Red

- (4) Blue
- Q.161A major breakthrough in the studies of cell came with the development of electron microscope. This is because [CBSE 2006]
  - (1) electron beam can pass through thick mater als, whereas light microscopy requires thin section.
  - (2) the electron microscope is more powerful than the light microscope as it uses a beam of electrons which has wavelength much loger than that of photons
  - (3) the resolution power of the electron microscope is much higher than that of the light microscope

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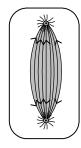
- (4) the resolving power of the electron microscope is 200-350 nm as compared to 0.1-0.2 nm for the light microscope
- Q.162 During mitosis ER and nucleolus begin to disappear at -

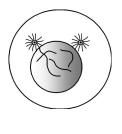
**CBSE** 

2010]

- (1) Late prophase
- (2) Early metaphase
- (3) Late metaphase
- (4) Early prophase
- Q.163 Which stages of cell division do the following figures A and B represent respectively?

[CBSE 2010]



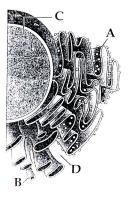


- (1) Metaphse Telophase
- (2) Telophase Metaphse
- (3) Late Anaphase Prophase
- (4) Prophase Anaphase
- Q.164 The main area of variuos types of activites of a cell is [CBSE 2010]
  - (1) Plasma membrane
  - (2) Mitochondrian
  - (3) Cytoplasm
  - (4) Nucleus
- Q.165 Carrier ions like Na<sup>+</sup> facilitate the absorption of substances like [CBSE 2010]
  - (1) amino acids and glucose
  - (2) glucose and fatty acids
  - (3) fatty acids and glycerol

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- (4) fructose and some amino acids
- Q.166 The plasma membrane consists mainly of -[CBSE 2010]
  - (1) phospholipids embedded in a protein bilayer
  - (2) proteins embedded in a phospholipid bilayer
  - (3) proteins embedded in a polymer of glucose molecules
  - (4) proteins embedded in a carbohydrate bilayer
- **Q.167**An elaborate network of filamentous proteinaceous the structures in present cytoplasm which helps in the maintenance of cell shape is called [AIPMT MAINS 2010]
  - (1) Endosplasmic Reticulum
  - (2) Plasmalemma
  - (3) Cytoskeleton
  - (4) Thylakoid
- Q.168Identify the components labelled A, B, C and D in the diagram below from the list (i) to (viii) given along with –

## [AIPMT MAINS 2010]



## **Components:**

- (i) Cristae of mitochondria
- (ii) Inner membrane of mitochondria

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- (iii) Cytoplasm
- (iv) Smooth endoplasmic reticulum
- (v) Rough endoplasmic reticulum
- (vi) Mitochondrial matrix
- (vii) Cell vacuole
- (viii) Nucleus

The correct components are

- A B C D
- (1) (i) (iv) (viii) (vi)
- (2) (vi) (v) (iv) (vii)
- (3) (v) (i) (iii) (ii)
- (4) (v) (iv) (viii) (iii)
- Q.169 In eubacteria, a cellular component that resembles eukaryotic cell is:

[AIPMT Pre- 2011]

- (1) Cell wall
- (2) Plasma membrane
- (3) Nucleus
- (4) Ribosomes
- Q.170 Which one of the following organisms is **not** an example of eukaryotic cells ?[AIPMT Pre- 2011]
  - (1) Amoeba proteus
  - (2) Paramcciumcaudatum
  - (3) Escheria coli
  - (4) Euglena viridis
- Q.171 Select the correct opition with respect to mitosis [AIPMT Pre- 2011]
  - (1) Chromosomes move to the spindle equator and get aligned along equatorial plate in metaphase

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- (2) Chromatids separate but remain in the centre of the cell in anaphase
- (3) Chromatids start moving towards opposite poles in telophase
- (4) Golgi complex and endoplasmic reticulum are still visible at the end of prophase
- Q.172 Important site for formation of glycoproteins and glycolipids is:

### [AIPMT Pre- 2011]

- (1) Lysosome (2) Vacuole
- (3) Golgi apparatus (4) Plastid
- Q.173 Peptide synthesis inside a cell takes place in : [AIPMT Pre- 2011]
  - (1) Ribosomes (2) Chloroplast
  - (3) Mitochondria (4) Chromoplast
- Q.174 In land plants, the guard cells differ from other epidermal cells in having:

# [AIPMT Pre- 2012]

- (1) Chloroplasts
- (2) Cytoskeleton
- (3) Mitochondria
- (4) Endoplasmic reticulum
- Q.175 What would be the number of chromosomes of the aleurone cells of a plant with 42 chromosomes in its root tip cells? [AIPMT Pre- 2013]
  - (1) 21 (2) 42 (3) 63 (4) 84
- Q.176At metaphase, chromosomes are attached to the spindle fibres by their :

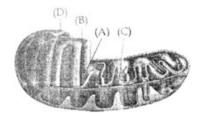
# [AIPMT Mains- 2015]

- (1) Centromere
- (2) Satellites
- (3) Secondary constrictions
- (4) Kinetochores

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- Q.177Which one of the following is not considered as a part of the endomembrane system?

  [AIPMT Mains- 2016]
  - (1) Lysosome (2) Golgi complex
  - (3) Peroxisome (4) Vacuole
- Q.178The figure below shows the structure of a mitchondrion with its four parts labelled (A),
  - (B), (C). and (D) Select the part correctly matched with its function [AIPMT Mains- 2017]



- (1) Part (A): Matrix major site for respiratory chain enzymes
- (2) Part (D): Outer membrane gives rise to inner membrane by splitting
- (3) Part (B): Inner membrane forms infoldings called cristae
- (4) Part (C): Cristae possess single circular DNA molecule and ribosome