M.Sc Botany sem III internal-1

Paper-I

Cell biology and Genetics QB

1. Which of the following is a functional unit of a body (c				
a) mitochondria	b) cytoplasma	c) spleen	d) cell	
2.In which of the following type of cells the gap junctions are absent (a				
a) sperm cells	b) brain cells	c) reproduct	cive cells d) cardiac cells	
3. What is epithelial mesenchymal transistion				
a) loss of migra	tion & gain ofadhes	sion b) format	tion of mesenchymal cells	
c) loss of ofadho	esion & gain of mig	ration d) lysis	of cells	
4. Which of the following are phagocytic cells				(d)
a) neutrophils,mast cells b) mast cells,macrophages				
c) mast cells,an	tibodies	d) neu	utrophyls, macrophages	
5.Which of the	following is known	as the powerho	use of a cell	(a)
a) mitochondria	b) cytoplasm	c) lysosome	d) nuclei	
6. Which of the following is a known as the suicide bag of a cell				(c)
a) mitochondria	b) cytoplasm	c) lysosome	e d) nuclei	
7.Who is the fat	ther of cell biology			(b)
a) George N.pa	oanicolaou	b) Ge	orge emil palade	
c) Robert hook		d) no	on of the above	
8.DNA is stored	in			(c)
a) cell wall	b) cell membrane	c) nucleus	d) cytoplasm	
9.RNA is present in				(b)
a) cell wall	b) ribosome	c) nucleus	d) golgi complex	
10.Protein synthesis is takes place in				(d)
a) cell wall	b) ribosome	c) nucleus	d) cytoplasm	

11. The tendency of an offspring to resemble its parent is known as (c)				
a) variation b) resemblance c) heredity d) inheritance				
12.Who is known as the father of genetics (a)				
a) mendal b) morgan c) betson d) Watson				
13.The alternate form a gene is (c)				
a) recessive characters b) alternate type c) allele d) dominant characters				
14.The genotypic ratio of a monohybrid cross is (b)				
a) 3:1 b) 1:2:1 c) 9:3:3:1 d) 2:1:1				
15.An exception to mendal s law is (a)				
a) linkage b) independent assortment c) purity of gametes d) dominance				
16.Mendels findings rediscoverd by (d)				
a) correns b) tschermark c) de vries d) all				
17.What is the by which progeny differ from their parent (c)				
a) mutation b) inheritance c) variation d) mendelism				
18. Which of the following crosses will result in a 9:3:3:1 ration (b)			
a) monohybrid cross b) dihybrid cross c) back cross d) test cross				
19. Homozygosity and heterozygosity of an individual can be determind by (c)			
a) back cross b) self fertilization c) test cross d) all the above				
20.Allelres are (a)			
a) Alternate form of gene b) linkage genes c) chromosomes that's have crossed over d) homologous chromosomes				
II.				
The term cell was given by				
In plant cells, by-products of the metabolic pathway are stored				
in(nuclueus)				
3. Tonoplast is a(membrane)				
4. Water enters the vacuole by(osmosis)				
5. Protoplasm of the cell comprises of(nucleus)6(nucleus)				
7. ATP is synthesized in mitochondria by(kerbs cycle)			

8.	given colour to flower and fruits(plastids)
9.	Chloroplasts containing chlorophyll absorbs carbon dioxide from air and
	release(oxygen)
10.	The crossing of F1 to either of the parents is known as(back cross)
	Genes that show tendency to be inherited together is known
	as(linkage group)
12	An example of co-dominance is(human ABO blood group
12.	system)
12	•
13.	Loops in lampbrush chromosomes represent site
	of(transcription)
	The method of DNA replication is(semi-conservative)
	The DNA binding proteins bind at the(major groove)
16.	is a genetic changes that occur in more than 1 percent of the population(polymorphism)
17.	portion of chromosomes that stain lightly and partially
	condensed(euchromatin)
18	The triplet code of CAT in DNA is represented asin mRNA
10.	andin tRNA(GUC,CAU)
10	
19.	Those mutation that arise in the absence of known mutagen are
	known(spontaneous mutations)
20.	When cancer cells gain the ability to move independently and invade other
	tissues,they are said to have(metastasized)
III.	
1.What	is transcription
2.Interp	phage
2.14	
3.Karyo	ikinesis
4.Zygot	ene
5.Linka	ge
-	5 -
6.Cross	ing over
7.RNA p	polymerase
8.Gene	mutation
9.Invers	sion
10.Test	cross