

S. NO	MCQ	Instructions		
1.		Mitotic division of one cell gives rise to how many haploid cells		
		2	Yes	
		4		
		8		
		16		
2.		Which of the following events occur during metaphase of meiosis I		
		Chiasma terminalization		
		Arrangements of bivalents at equatorial plates	Yes	
		Crossing over		
		Separation of homologous chromosomes		
3.		Paring between homologous chromosomes is formed in which of the following substages of meiosis I		
		Zygotene	Yes	
		Pachytene		
		Leptotene		
		Diplotene		
4.		Chiasma terminalization is formed in which of the following substages of meiosis I		
		Zygotene		
		Pachytene		
		Leptotene		
		Diplotene	Yes	
5.		Which is the title of the research paper of Mendel?		
		Experiments on pea hybridization		
		Discovery of laws of inheritance in pea		
		Experiments in plant hybridization	Yes	
		Segregation and independent assortment in pea		
6.		Mendel presented experimental finding in which of the plants?		
		Garden pea	Yes	
		maize		
		paddy		
		wheat		
7.		Mendel's laws were rediscovered in which of the following year?		
		1890		
		1905		
		1900	Yes	

		1898		
8.		The first recessive lethal gene, affecting coat colour in mice, was discovered by which of the following?		
		Correns		
		Cuenot	Yes	
		Cannon		
		Carothers		
9.		A gene which affect the expression of more than one character are known as which of the following?		
		Pleiotropic genes	Yes	
		Hypostatic genes		
		Epistatic gene		
		Over dominant genes		
10.		Germplasm theory was given by		
		Charles Darwin		
		Lamarack		
		Weismann	Yes	
		Wolf		
11.		'Inside the human sperm have miniature human figure' This statement was given in which theory		
		Theory of biogenesis		
		Theory of abiogenesis		
		Preformation theory	Yes	
		Theory of epigenesis		
12.		Linkage was observed by which scientist in Drosophila		
		Muller		
		Morgan	Yes	
		Hutchinson		
		Bateson and Punnett		
13.		Mendel presented his findings in		
		Annual history society of Brun		
		Natural history society of Brun	Yes	
		Monthly history society of Burn		
		Quarterly history society of Burn		
14.		Mendel's paper was published in which year		
		1890		
		1905		
		1866	Yes	
		1898		
15.		The gene that masks the expression of other gene		

		is called as		
		Epistatic gene	Yes	
		Hypostatic gene		
		Recessive gene		
		None of the above		
16.		The basic idea of multiple factor hypothesis was originally postulated by which of the following?		
		Johannsen		
		Yule		
		Nilsson-Ehle	Yes	
		Galton		
17.		Mendel failed to present his finding in which crop		
		Hawkweed	Yes	
		Rajma		
		Honeybee		
		Pea		
18.		What is the F <sub>2</sub> phenotypic ratio for dihybrid cross		
		9:3:3:1	Yes	
		9:3:4		
		9:3:1:3		
		9:2:3:1		
19.		Who coined the term pangene		
		Charles Darwin	Yes	
		Hugo Devries		
		Johannsen		
		Yule		
20.		How many characters were studied by Mendel in garden pea		
		7	Yes	
		5		
		14		
		10		
21.		What is the F <sub>2</sub> phenotypic ratio for Monohybrid cross		
		3:1	Yes	
		9:3:4		
		9:3:1:3		
		9:2:3:1		
22.		In case of duplicate gene action, F <sub>2</sub> generation shows which of the following phenotypic ratios?		
		15:1	Yes	
		15:2		
		15:3		

		15:4		
23.		The term Genetics was given by		
		Janssens		
		Sharp		
		Johansson		
		Bateson	Yes	
24.		The phenotypic ratio for incomplete dominance		
		15:1		
		5:2		
		1:2:1	Yes	
		None of the above		
25.		Most widely accepted pre-mendelian theory		
		Theory of epigenesis		
		Preformation theory		
		Lamarckism		
		Germplasm theory	Yes	
26.		Two alleles of a gene stay together in the hybrid without contaminating each other, and at the time of gamete formation they separate and pass into different gametes is known as		
		Law of segregation	Yes	
		Law of Independent assortment		
		Both		
		None of the above		
27.		The phenotypic ratio for Co-dominance		
		15:1		
		5:2		
		1:2:1	Yes	
		None of the above		
28.		In case of supplementary gene action, F2 generation shows which of the following phenotypic ratios?		
		9:6:1		
		12:3:1		
		9:3:4	Yes	
		9:7		
29.		The phenotypic ratio for Monohybrid cross		
		15:1		
		3:1	Yes	
		1:2:1		
		None of the above		
30.		Crossing over take place at which stage		
		Pachytene Stage	Yes	
		Leptotene stage		

		Zygotene stage		
		Diplotene stage		
31.		Mendel considered		
		Two characters at a time		
		Four characters at a time		
		Three characters at a time		
		One characters at a time	Yes	
32.		The division of chromosome of a cell into two groups and these give rise to the two daughter nuclei is called as		
		Karyokinesis	Yes	
		Cytokinesis		
		Both		
		None of the above		
33.		Arrangement of chromosomes on equatorial plate take place in which phase of mitosis cell division		
		Prophase		
		Metaphase	Yes	
		Anaphase		
		Telophase		
34.		In case of inhibitory gene action, F2 generation shows which of the following phenotypic ratios?		
		13:1		
		13:2		
		13:3	Yes	
		13:4		
35.		Completion of replication of the remaining 0.3% DNA take place in which phase of meiosis		
		Leptotene		
		Zygotene	Yes	
		Pachytene		
		Diplotene		
36.		Both the alleles of a gene express themselves in the heterozygotes is called as		
		Co-dominance	Yes	
		Dominance		
		Incomplete dominance		
		Overdominance		
37.		Any one of the two dominant genes is unable to produce the phenotype when it is alone, but the dominant allele of the two gene complement each		

		other to produce the concerned phenotype when they are together. Gene showing such interaction are known as		
		Complementary gene	Yes	
		Supplementary gene		
		Inhibitory gene		
		Polymeric gene action		
38.		What ratio was observed in F2 for multiple factor hypothesis		
		1:4:6:4:1	Yes	
		1:1:4:4:2		
		1:4:6:1:1		
		1:4:4:2:1		
39.		The first recessive lethal gene, affecting coat colour in mice, was discovered by which of the following?		
		Correns		
		Cuenot	Yes	
		Cannon		
		Carothers		
40.		Which of the following is a reduction division		
		Meiosis	Yes	
		Mitosis		
		Both		
		None of the above		