

CLASS XII BIOLOGY FULL LENGTH TEST-2

TIME: 2 HOURS

M.M.: 45

1.	Name the most invasive aquatic plant weed which is called as 'Terror of Bengal'.
3.	Pollen grains of water pollinated species have a special characteristics for protection from water. What is that?
3. 4.	In ovary which structure transforms as corpus luteum and name hormone secreted by corpus luteum? 1 Give technical name of female used to bring up in-vitro fertilized egg to maturity.
5.	Name the disorder with the following chromosome complement.1 a. 22 pairs of autosomes + X X Y b. 22 pairs of autosomes + 21st chromosome + XY.
6.	Higher organisms have resorted to sexual reproduction inspite of its complexity. Why? 2
7.	Fruits generally develops from ovary, but in few species thalamus contributes to fruit formation. 2
8.	 a. Name the two categories of fruits. b. Give one example of each. 2 a. Corpus luteum b. Endometrium
9.	Briefly explain two natural barriers for birth control. 2
10.	Mention two differences between Turner's syndrome and Klinefelter's syndrome. 2
11.	Mention the site of zygote formation in the ovule of a flowering plant. What happens to sepals, petals and stamens after fertilisation? State the fate of zygote, ovule and ovary in these plants.
12.	Differentiate between microsporogenesis and megasporogenesis. What type of cell division occurs during these events? Name the structure formed at the end of these two events. 3
13.	T.S. of mammalian testis revealing seminiferous tubules show different types of cell.3(i) Name the two types of cells of germinal epithelium.(ii) Name of cells scattered in connective tissue and lying between seminiferous tubules.Differentiate between them on the basis of their functions.
14.	Mention the various precautions one has to take in order to protect himself/herself from STDs. 3
15.	Illustrate schematically the process of initiation, elongation and termination during transcription of a gene in a bacterium.
16.	Study the figure given :
	 (i) Pick out and name the cells that undergo spermiogenesis. (ii) Name A, B, C and F. (iii) Give ploidy of B and E (iv) Mention the function of 'F' cell.
17.	 A dihybrid heterozygous round, yellow seeded garden pea (<i>Pisum sativ</i>um) was crossed with a double recessive plant. (i) What type of cross is this? (ii) Work out the genotype and phenotype of the progeny.
	(iii) What principle of Mendel is illustrated through the result of this cross? 5
18.	Describe the process of transcription of mRNA is an eukaryotic cell. 5

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