(Pages: 4)

Maximum: 200 marks

Time: $1\frac{1}{2}$ hours

PART - I

(Each answer shall be limited to one sentence)

Write the full form of the following acronyms:

1.	ATP
2.	ICBN
3.	BSI
4.	PPLO
5.	JNTBGRI
B.	Fill in the blanks:
6.	Mendel's dihybrid phenotypic ratio is ————.
7.	Sporangia which develops from a single initial is called ————.
8.	In DNA, Cytosine pairs with ———.
9.	Father of Indian Angiosperm Embryology is, ———.
10.	Development of gametophyte from the sporophyte without the formation of spores is known as ————.
11.	The source plant of Quinine is,
12.	Removal of stamens from the flowers before anthesis is called ———.
13.	Bacteria bearing flagella all over the body are called ———.
14.	Juvenile state of Funaria is ————.

15.	The plant part which is used for regeneration into whole plant in tissue culture is called					
16.	During photosynthesis, the oxygen is evolved as a byproduct. This oxygen comes from					
17.	Genes located on Y chromosomes are called ———.					
18.	Vacuolar membrane is called ————.					
19.	Histogen theory of shoot apex was proposed by.					
20.	The botanical name of Rice plant is					
C.	Choose the correct answer:					
21.	. Gynobasic style is present in the family :					
	(a) Annonaceae	(b)	Lamiaceae			
	(c) Lilliaceae	(d)	Amaranthaceae			
22.	. Girdling leaf traces are the characteristic feature of the stem of :					
	(a) Cycas	(b)	Pinus			
	(c) Ephedra	(d)	Gnetum			
23.	Single trisomy is represented as:					
	(a) $2n+1$	(b)	2n-1			
	(c) $2n-2$	(d)	2n+2			
24.	The age of fossils is determined by:					
	(a) Dendrochronology	(b)	Calcium deposition			
	(c) Palaentology	(d)	Radio carbon dating			
25.	A GM plant is :					
	(a) Terminator plant	(b)	Transgenic plant			
	(c) Translated plant	(d)	Transducted plant			
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26.	Bac	terial transformation was discovered by :					
	(a)	Darwin	(b)	Leeuwenhoek			
	(c)	Griffith	(d)	Robert Brown			
27.	"She	ower of Sulphar" is associated with:					
	(a)	Gnetum	(b)	Pinus			
	(c)	Cycas	(d)	Equisetum			
28.	The movement of pollen tube towards the embryo sac is:						
	(a)	Thermotactic	(b)	Thigmotactic			
	(c)	Chemotactic	(d)	Phototactic			
29.	Inhe	eritance of skin colour in Man is :					
	(a)	Epistasis	(b)	Polygenic			
	(c)	Monogenic	(d)	Trigenic			
30.	Mut	cation was first observed in :					
	(a)	Oenothera lamarckiana	(b)	Pisum sativum			
	(c)	Drosophila melanogaster	(d)	Nepenthes tentaculata $(30 \times 4 = 120)$			
PART – II							
		Answers shall be limited		paragraph.			
31.	Cell	division in Pinnularia					
32.	Gram staining						
33.	Double fertilization and triple fusion						
34.	Cyathium inflorescence						
35.	FAA						

- 36. Hydathodes
- 37. Amphiphloic siphonostele
- 38. Reasons for selecting Pisum sativum as experimental material by Gregor Johann Mendel. $(8 \times 10 = 80)$