Seat	
No.	

Total No. of Pages : 20

P. G. Re-Entrance Examination, 2024 M. Sc. (BOTANY) Subject Code : 58714

	Day and Date : Friday, 28-06-2024 Total Marks : 100		
1 III 	Time : 10.30 a.m. to 12.00 p.m.		
	tructions :		
1)	All questions are compulsory.		
2)	Each question carries 1 mark.	the siver OVD ensure sheet by derivating	
3)	Answers should be marked in the given OMR answer sheet by darkening the appropriate option.		
4)	Follow the instructions given o	on OMR sheet.	
5)			
1)) Eukaryotic cells contains ribosomes.		
	a) 80S	b) 60S	
	c) 40S	d) 70S	
2)	2) is mostly cultivated by shoot suckers.		
	A) Rose	B) Marigold	
	C) cut greens	D) Jasmine	
3)	Flowers with long stock are called as		
	A) loose flowers	B) cut flowers	
	C) Gerbera	D) dried flowers	
		1	

4) used for preparation of perfumes in perfumery, A) Gerbera B) Rose C) Marigold D) Catharanthus 5) Propogation of plants through seeds is referred as method of reproduction. A) asexual B) sexual D) parthenocarpic C) vegetative 6)species of marigold is commonly cultivated in India. A) Tagetus indica B) Tagetus erecta C) Tagetus africana D) Tagetus austalis 7) Nursery is a place where plants are gown for A) selling B) multiplication only C) ornamental purpose D) beautification 8) Carrot is a rich source of Vitamin A)A B) B C) C D) D 9) Brindavan garden is situated on the river A) Ganga B) Krishna

- /		
	A) Rose	B) Marigold
	C) Gerbera	D) Jasmine
11)	is commonly used in	hanging basket.
	A) Clerodendrum sp.	
	B) Begonia sp.	
	C) Antigonon leptopus	
	D) Ipomoea palmata	
12)	The general chemical formula o	f carbohydrate is
	a) Cn H2n O	b) (CH2O) 2n
	c) (CHO)n	d) (CH2O)n
13) Which of the following is ketotriose		
	a) Glyceraldehyde	b) Dihydroxyacetone
	c) Ribulose	d) Erythrose
14).	The glucosidie linkage between	n glucose molecule of sucrose is
	a) <i>a</i> 1-4	b) <i>B</i> 1-4
	c) <i>a</i> 1-2	d) <i>B</i> 1-6
15).	Which of following is homopol	lysaccharide-
	a) cellulose	b) Starch
	c) glycogen	d) all of above

6) The number of isomer in glucose are			
a) 6	b) 8		
c) 12	d) 16		
17) Mutarotation refers to change	17) Mutarotation refers to change in		
a) Optical rotation	b) pH		
c) Conductance	d) Chemical properties.		
18) Which of following is non reducing sugar			
a) Sucrose	b) Agar		
c) Isomaltose	d) Trehalose		
19) Sucrose consists of			
a) Glucose+ glucose			
b) Glucose+fructose			
c) Glucose+ galactose			
d) Glucose+manose			
20) Epimers of glucose is			
a) Fructose	b) galactose		
c) ribose	d) deoxyribose		
21). All protein contain the			
a) Same 20 amino acids	b) different amino acids		
c) 300 amino acids occur in na	ature d) only few amino acids		

22) Zhukovsky proposedmegacenters or regions for diversity of cultivated plants.

	a)10	b)11
	c) 12	d)13
23) Triticum aestivum belongs	to family
	a) Poaceae	b) apocynaceae
	c) cyperaceae	d) fabaceae
24)) Centre of origin of soyabean is	
	a) India	b) East Asia China
	c) America	d) Australia two
25) Term bioinformatics was coined by to describe "the study of		
	informatic processes in biotic systems	
	a) Watson	
	b) T.H.Morgan	
	c) Koelreuter	
	d) Paulien Hogeweg and Ben	Hesper
26). T-Test is defined as the ratio of difference between standard error ofmeans		
	and difference between two m	eans.
	a) live	b) four

c) two d) three

27) part of Syzigium aromaticum is used			
a) opened flower bud.	a) opened flower bud.		
b) fresh unopened flower bud	b) fresh unopened flower bud.		
c) Dried unopened flower bud	c) Dried unopened flower bud.		
d) fruit	d) fruit		
28) In <u>Piper</u> nigrum major	compound is present		
a) pyrol	b) pyroline		
c) piperol	d) piperidines		
29) In Gossypium sp type of f	ruit is present		
a) berry	b) loculicidal capsule		
c)pepo	d) pod		
30) The person who collects the data for statistical investigation is called as			
a) collector	b) investigator		
c)supervisor	d) breeder		
31) The number of items which belongs to same class called as			
a) frequency	b) class frequency		
c) class limit	d) mid point		
32) External as well as internal structures present intype of fossil.			
a) Impression	b) Petrification		
c) Nodule	d) Pith cast		

33)) Cupulate seeds of Lyginopteris are known as	
	a) Spenopteris	b) Enigmocarpon
	c) Telangium	d) Laginostoma
34)	4) Carbon dating method for determining age of fossil is based on	
	a) physical activity	b) chemical activity
	c) biological activity	d) radioactivity
35)	5) fossils are just show impressions of plants or plant parts on	
	sediments.	
	a) Impression	b) Compression
	c) Amber	d) Petrification
36)	36) In naming a form genus of fossilsuffix is applied to a stem genus.	
	a)-dendron	b) -phyllum
	c)-xylon	d) -strobus
37)	7) pBR322 is a used as	
	a) molecular probe	b) Karyotype dye
	c) Resistant marker	d) Vector
38) Topoisomerase is involved in		
	a. producing RNA primer	b. secretion of DNA strand
	c. producing nick in DNA	d. T-RNA

39) A plasmid is....

- a.. is a circular DNA
- b. always contains an origin of replication
- c. usually contains one or more restriction sites
- d. all of the above
- 40)enzymes are molecular scissors.
 - a. Restrication endonuclease
 - b. Reverse transcriptase
 - c. DNA polymerase
 - d. RNA polymerase
- 41) Azotobacter strains are sold under the name.....
 - a) Azotomycin
 - b) Azotobacterian
 - c)Azocyanin
 - d) Azostrepsin

42) Nitrogen fixing BGA fix the atmospheric nitrogen with the help of.....

- a) Oidea b) Heterocyst
- c) Chlamydospores d) akinets
- 43) worm-farming" means
 - a) apicultureb) fisheryc) Vermiculture.d) Sericulture

44) Vesicular-arbuscular mycorrhiza (VAM) is formed by the symbiotic association between certain phycomycetous fungi and roots.

a) Angiospermic	b) Petridophytes
c) Agae	d) Bryophytes
45) Trichoderma is a	ecofriendly fertilizer.
a) Fungal	b) Bacterial

c) viral

46) In Type of Classification, the drugs are arranged according to the morphological or external characters of the plant parts or animal parts.

d) Algal

a) Morphological	b) Anotomical
c) taxonomical	d) Chemical.

47) The drug which is obtained from the plants, animals and Bacteria or any natural resources to cure the diseases in the humans and animals are called.....

- a) Modified drugs b) Crude drugs
- c) synthetic drugs d) all of the above
- 48) Zingiber officinale is the Botanical name of the

A) Heena	B) Adrak.
C) Pumpkin	D) Amala

49) The main chemical constituent of Zingiber officinale is......

	A) Ascorbic acid	B) Butanol
	C) zinzerol	D) Fumaric acid
50)	helps to improve immu	nity in the humans.
	A) Tridax Sp.	B) Argemone sp.
	C) Parthenium sp.	D) Emblica sp.
51.	The term alternation of generati	on was first used by
	a) Halfmeister	b) Iyyangar
	c) Linnaeceous	d) T. Cooke
52.	is more primitive type	of sexual reproduction.
	a) Oogamy	b) Anisogamy
	c) Isogamy	d) parthenocarpy
53. In Anthoceros fertilization is		
	a) Oogamous	b) isogamous
	c) anisogamous	d) parthenocarpy
54. Hornworts is the common term used for members of		
	a) mosses	b) anthocerotopsida
	c) bryopsida	d) psilophyta
55. Naked ovules are present in		
	a) Pteridophyes	b) Angiosperms
	c) Gymnosperms	d) Bryophytes

56. Somatic body of the fungi is made up of which constitute mycelium.

	a) Spore	b) hyphae
	c) septa	d) conidiophores
57.	Sporangiospores in Mucor are .	
	a) triploid	b) haploid
	c) diploid	d) tetraploid
58.	Pomegranate blight isdis	ease.
	a) viral	b) fungal
	c) bacterial	d) mycoplasmal
59. The members of cyanophyta are commonly called as		
	a) Green algae	b) Blue green algae
	c) Red algae	d) Brown algae
60. The naked single stranded RNAs are known as		
	a) Satellites	b) Viroids
	c) Prions	d) Capsid
61. Indian father of angiosperm embryology		
	a) P. Maheshwari	
	b) M. S, Swaminathan	
	c) B. G. Swami	
	d) Lakshmanan	

62. Embryo sac of angiosperm is		
a) 8- nucleated, 7-celled	b) 8- nucleated, 7- celled	
c) 8- nucleated, 8- celled	d) 7- nucleated, 7-celled	
63. Flowers pollinated by bats is called as		
a) Malacophily	b) ornithophily	
c) chiropterophily	d) zoophily	
64. Four radial vascular bundle are found in		
a) dicot root	b) monocot root	
c) dicot stem	d) monocot stem.	
65. Companion eells are found in		
a) Xylem	b) phloem	
c) stomata	d) endodermis	
66. Safranin stains		
a) thick walled cells	b) living cells	
c) suberized cells	d) lignified cells	
67. The first CO_2 acceptor in Ca plant is		
a) Phosphoenol pyruvic acid		
b) Ribulose diphosphate		
c) Oxalo acetic acid		
d) Phosphoglyceric acid		

68. Sugarcane shows high efficiency of CO_2 fixation because it performs

a) Calvin cycle	b) HSK pathway	
c) TCA cycle	d) Cs cycle	
69. Donnan equillium isuptake of mineral.		
a) Active	b) Passive	
c) Positive	d) Negative	

70.are micronutrients to the plants.

a) Fe and Mn	b) Ca and K
c) P and K	d) C and O

71. What is the expected phenotype ratio of a dihybrid cross between two heterozygous pea plants....

a) 9:3:3:1	b) 1:2:1
c) 3:1	d) 1:1

72. Kernel colour in wheat is controlled by

a) Autogenes	b) Plasmagenes
c) Plastogenes	d) Polygenes
73. Plastid inheritance studied in	plant.
a) Bougainvillea spectabilis	b) Datura alba
c) Mirabilis jalapa	d) Pisum sativum

74.is Hardy-Weinberg equation for equilibrium.

a) $p2 + pq + q = 1$	b) $p^2 + 2pq + q^2 = 1$
c) $p + 2pq + q = 1$	d) p + pq + q = 1

75. A condition in which the organisms have more than two complete sets of chromosomes is called.....

	a) Anueploidy	b) Haploids
	c) Polyploidy	d) None of these
76.	6. Cytoplasmic inheritance was first reported by	
	a) Correns	b) Sutton
	c) Mendel	d) Johnson
77.	7. Any change in the nucleotide sequence of the DNA of a gene is called	
	a) a mutation	b) an anticodon
	c) a codon	d) a translocation

78. Inversion with centromere is called.....

- a) Acentric b) Acrocentric
- c) pericentric d) Paracentric
- 79. What is the purpose of backerossing in plant breeding.....
 - a) To produce offspring with desirable traits
 - b) To introduce genetic variation
 - c) To improve the quality of the parent plant
 - d) To increase the yield of the parent plant

80. When two or more genes interact to control a single trait, it is called.....

a) Epistasis	b) Pleiotropy	
c) Co-dominance	d) dominance	
81. The virus-mediated bacterial re	combination is known as	
a) Transduction	b) Conjugation	
c) Transformation	d) Recombination	
82. Bacterial transformation was discovered by		
a) Leaderberg and Tatum	b) Beadle and Tatum	
c) Griflith	d) Zinder	
83. Transformation mechanism of recombination in bacteria is discovered by.		
a) Tatum		
b) Zinder		
c) F. Griffith		
d) Lederberg and Tatum		
84. Fermentation is a Process.		
a) Physiological	b) Biological	
c) Chemical	d) Physical	
85. Penicillin is commercially produced by		
a) P. notatum	b) P. citrinum	
c) P. chrysogenum	d) P. roqueforti	

86. Zymase is obtained from			
a) Saccharomyces ludwigi			
b) Saccharomyces cerevisae	b) Saccharomyces cerevisae		
c) Saccharomyces boulardii			
d) Saccharomycescrusiana			
87. Plant diseases caused by non-li	ving agents are called as		
a) Biotic diseases	b) Abiotic diseases		
c) Non-infectious diseases	d) Infectious diseases		
88. Whip Smut of Sugarcane is caused by			
a) Bacteria	b) Virus		
c) Fungi	d) mycoplasma		
89. Damping off is a			
a) Soil borne fungal disease	b) Bacterial diseases		
c) air born fungal diseases	d) viral diseases		
90. Mushrooms are rich in			
a) Proteins	b) lipids		
c) carbohydrates	d) Minerals		
91. Pleurotuasajor caju grows on -materials.			
a) Lignin cellulosic	b) tannin		
c) fibres			

92) Nucleoid is present in		
a) virus	b) algae	
c) bryophyte	d) bacteria	
93) True nucleus is present in .		
a) bacteria	b) virus	
c) mitochondria	d) eukaryotes	
94) Mitosis is also called as ce	ll division	
a) reductional	b) equational	
c) parallel	d) periclinal	
95) Meiosis is also called as cell division		
a) reductional	b) equational	
c) parallel	c) periclinal	
96) Chromosomes are present on middle line in		
a) prophase	b) anaphase	
c) metaphase	d) telophase	
97) Karyokinesis is division of		
a) mitochondria		
b) chloroplast		
c) cytoplasm		
d) nucleus		

98)are called power house of cell		
a) nucleus	b) lysosome	
c) ribosome	d) mitochondria	
99)is the site of photosynthesis in cell of green plants.		
a) amyloplast	b) Chloroplast	
c) tonoplast	d) leucoplast	
100) are important in protein synthesis.		
a) nucleus	b) lysosome	
c) ribosome	d) mitochondria	

- Rough Work -

- Rough Work -