								PET	Γ 2024	1 (900	<b>(8</b> )
Total No. of Printed Page	es: <b>06</b>							No.	of Qu	estion	s : <b>50</b>
D. D.L.	1. 1. A . 1 11 .	M	1. TT.	•4	CL1	4	4. 0	.1.1. "			
Dr. Babasal	heb Ambedkar PFT 2024			•		_		nonajii	nagar		
PET 2024 (9008) Doctor of Philosophy( (Botany)  (To be filled by the Candidate)											
				1							$\neg$
Candidate Seat Number (As per Admit card)											
OMR Sheet Number											
			I	_							
						Invig	ilator's	s signa	ture v	vith D	ate
Candidate's Seat No. in	Words	:									
Name of the Center		:									
Paper Code & Name of Examination : 9008 - Doctor of Philosophy ((Botany))											
Date: 03/10/2024		PET 202	1 FY	A M IN	I A TTC	N					
Date: 03/10/2024 PET 2024 - EX					AIIC	<b>)</b> 11					
Time: <b>One Hours</b> Total Marks:				00							
						~					
Important Instructions for the candidate				பரிவ		<b>विद्यार्थ्यांस</b> पला आसन				ग क्रोप	T -
1. Write your seat number and OMR Sheet number on the question paper in the earmarked space			ne 1.			पला आसन १ दिलेल्या ३					
2. This question paper carr	_	ltiple-choice tv	ne 2.			। १५००्या ५ गेल सर्व प्रश्				31(7) 1(7)	श्रापा.
questions and each ques	-	_	3.			ल्यावर विद			•	जाईल.	
3. At the commencement of			r 4.		-	ਾਠੀ (A) (E					त्तरे दिली
will be given to the student.						योग्य उत्तर					
4. Each question has four		`	′		निळा क						
(B) (C) and (D). You ha			ed	उदाः प	जर (C) है	हे उत्तर योग्य	य असेल त	र			
below on the correct res Example: where (C) is of		n question									
Example: where (c) is c	offeet answer			A		B				$\bigcirc$	
<b>(A) (B)</b>		<b>(D)</b>		A	'	9				9	
5. Your responses to the	answer are to be	indicated in the	ne 5.	या प्रश	नपत्रिकेर्त	नील प्रश्नांर्च	ो उत्तरे अं	ोएमआर	उत्तर पिः	त्रेकेतच र	दर्शवावीत
OMR Sheet. If you mark						लहिलेली उ		-			

- in the OMR Sheet it will not be evaluated.
- Rough work is to be done at the end of this question paper.
- You have to return OMR answer sheet and question paper to the invigilator at the end of examination compulsorily and must not carry with you outside the examination hall.
- 8. Use only Black / Blue ball point pen
- Use of any type of calculator or log table etc. is prohibited.
- 10. There is no negative marking for incorrect answers

- प्रश्नपत्रिकाच्या शेवटी कोऱ्या जागेवरच कच्चे काम करावे
- 7. परीक्षा संपल्यानंतर विद्यार्थ्यांनी मूळ ओ. एम. आर उत्तरपत्रिका पर्यवेक्षकाकडे परत करणे आवश्यक आहे तथापि प्रश्नपत्रिका व ओ. एम. आर. उत्तरपत्रिका आपल्याबरोबर नेण्यास विद्यार्थ्याला परवानगी नाही.
- फक्त काळया किंवा निळ्या बॉलपेनचाच वापर करावा 8.
- कॅल्क्युलेटर किंवा लॉग टेबल वापरण्यास परवानगी नाही
- 10. चुकीच्या उत्तरासाठी गुण कपात केली जाणार नाही

Q. No.	Question							
1.	Research	is based upon						
		ting scale	<b>(B)</b>	Experiments				
	(C) Ge	eneral principles	<b>(D)</b>	Scientific methods				
2.	<b>(A)</b> A	her selects a probability sample of 100 out cluster sample	of a to	tal population is called				
	(C) A	random sample systematic sample a Individual sampling among the population	l					
3.	it might b	be true is called as		argument so that it can be tested to see if				
	(A) Inf (C) Hy	erence pothesis	(B) (D)	Conclusion Thesis				
4.	Wandering	g in search of any special thing is						
	7	cursion	<b>(B)</b>	Exploration				
	(C) Ex	pedition	$(\mathbf{D})$	Exhibition				
5.		which is descriptive and depicts the charact	ers is					
	` /	alytical data	<b>(B)</b>	Informative data				
	(C) Qı	nantitative data	<b>(D)</b>	Qualitative data				
6.		y is related to						
		boratory situations	<b>(B)</b>	Experimental situations				
	( <b>C</b> ) Re	al life situations	<b>(D)</b>	Performing situations				
7.	Research conducted to find the solution of an immediate problem is called							
	· /	etion research	<b>(B)</b>	Quick research				
	(C) Su	rvey research	<b>(D)</b>	Fundamental research				
8. A handwritten or typewritten composition sen								
	(A) Dr							
	(C) Hy	pothesis	<b>(D)</b>	Manuscript				
9.	How an Impact Factor (IF) is calculated							
	<ul><li>(A) Number of citations in a year divided by the number of articles published in that year</li><li>(B) Number of citations in a year divided by the number of articles published before two years</li></ul>							
		imber of citations in a year divided by the imber of copies distributed in a year divide						
	yea							
	(D) Nu yea	umber of articles published in a year divided ar	l by the	number of copies distributed in that				
10.	The Head	Quarter of BSI is located at						
	` ′ _	ew Delhi	<b>(B)</b>	Chennai				
	( <b>C</b> ) De	hradun	<b>(D)</b>	Kolkata				
11.	A Statistical hypothesis that proposes no statistical significance exists in a set of given observations is							
	· /	esis III. Hypothesis	(B)	Hypothesis Un significant statistics				
		III TEVEROUPENN		LIG COMPLICATE CLARCTICE				

12.	Resolving power of a compound Microscope is  (A) 20 microns  (C) 200 nano meters	(B) (D)	200 microns 200 Anstroms
13.	A stain gives yellow green fluorescent colour to DNA  (A) Acridine Orange R  (C) Fluorescent Cotton Green	A is (B) (D)	Aniline Green Fluoroglucinol
14.	The wavelength of UV radiation (UVR) lies in the rate (A) 100 – 400 nm (C) 200 – 700 nm	nge of <b>(B) (D)</b>	100 – 200 nm 200 – 700 microns
15.	A separation method using the difference of charge st the stationary phase in the column is (A) TLC (C) HPLC	(B) (D)	etween the mobile phase and analytes from IEX HPTLC
16.	An instrument used to determine the sedimentation veorganelles, biomolecules like DNA, RNA and lipopro (A) Centrifuge (C) Cyclometer	•	<u>*</u>
17.	A mechanical tissue composed of small cells with any (A) Parenchyma (C) Collenchyma	gular th (B) (D)	nickening is Sclerenchyma Chlorenchyma
18.	Young flower buds were collected early in the morning (A) Meiosis (C) Phytochemistry	g pres (B) (D)	erved for the study of Mitosis Protoplast fusion
19.	Standard size of Herbarium sheet is  (A) 18 X 24 inch  (C) 35 X 42 cm	(B) (D)	29 X 42 cm 35 X 42 inch
20.	Fungi can be cultured on which medium?  (A) M S Agar  (C) TSA	(B) (D)	PDA LB
21.	The agency which Regulates the Biological Diversity (A) BDA (C) NBA	Act 20 (B) (D)	002 BSI CBZ
22.	Chief of the Forest Department of a state is  (A) PCCF  (C) RFO	(B) (D)	CCF DFO
23.	The full form of http is  (A) Hypertext transfer protocol  (C) Hyperactive transfer of the text protolog	(B) (D)	Hyphen transfer of the text protocol High speed text transfer programme
24.	A new word page/ file can be opened by  (A) Ctrl + W  (C) Ctrl + F	(B) (D)	Ctrl + P Ctrl + N

25.	Internet is								
	(A) International	Networth Communication Network	(B) (D)	International Network Interconnected Network					
	(-)		, ,						
26.	Which of the following statements is true about the chromatin composition?								
	(A) DNA (C) DNA, Protei	ins	(B) (D)	DNA, RNA DNA, RNA and Proteins					
			(2)						
27.	The main function  (A) Protein synth		<b>(D)</b>	DNA synthesis					
	(C) Karyokinesis		(B) (D)	rRNA synthesis					
20	. ,		, ,	·					
28.	What is a genome?  (A) Diploid set of Chromosomes								
	( )								
	( <b>D</b> ) Sum of a hap	(D) Sum of a haploid set of chromosomes and extrachromosomal material of the cell							
29.	Plasma membrane	is made up of							
	. ,								
	( )	(B) Bimolecular lipid layer surrounded by protein layers							
	(-)	surrounded by Proteins surrounded by fatty acids							
	( <b>D</b> ) Lipid layers	surrounded by ratty acids							
30.	The phenomenon of one gene affecting the physical expression of other gene which occurs between								
	genes of polygenic (A) Epistasis	traits is called	<b>(B)</b>	Hypostasis					
	(C) Mutation		( <b>D</b> )	Point mutation					
31.	In Neurospora cras	ssa the genome contains ho	w many chrom	nocomes					
J1.	(A) 7	sa the genome contains no	(B)	5					
	(C) 6		$(\mathbf{D})$	9					
32.	Heterocyst is found	l in							
<i>J</i> 2.	(A) Chlamydomo		<b>(B)</b>	Nostoc					
	(C) Spirogyra		$(\mathbf{D})$	Hydrodictyon					
33.	Globule and Nucul	e are found in							
33.	(A) Spirogyra	c are found in	<b>(B)</b>	Anabaena					
	(C) Nostoc		$(\mathbf{D})$	Chara					
34.	Imperfect Fungi ar	æ							
·	(A) Ascomycete		<b>(B)</b>	Basidiomycetes					
	(C) Deuteromyc	etes	$(\mathbf{D})$	Mastigomycetes					
35.	The fungus in which	ch the thallus is differentiate	ed into vegetat	tive structures and reproductive structures is	;				
	called as		C	-					
	(A) Eucarpic		<b>(B)</b>	Holocarpic					
	(C) Protocarpic		<b>(D</b> )	Pseudocarpic					
36.		Bacteria the cell wall contain	ns						
	(A) Cellulosic ac	cid	<b>(B)</b>	Teichoic acid					
	(C) Humic acid		<b>(D)</b>	Vanillic acid					

37.	Angular leaf spot of Cotton is caused by  (A) Alternaria solani  (C) Xanthomonas citri	(B) (D)	Cercospora arachidicola Xanthomonas citri pv malvacearum
38.	Little leaf of Brinjal is caused by  (A) Bacteria  (C) Fungi	(B) (D)	Virus Phytoplasma
39.	Which Virus is called as Grand daddy of Viruses  (A) TMV  (C) BMV	(B) (D)	PMV HIV
40.	Assimilatory zone consists free filaments in  (A) Marchantia (C) Anthoceros	(B) (D)	Riccia Polytrichum
41.	Trabeculae present in  (A) Psilotum  (C) Lycopodium	(B) (D)	Rhynea Selaginella
42.	Sporocarp is present in  (A) Psilotum  (C) Lycopodium	(B) (D)	Marsellia Selaginella
43.	Cupule is present in  (A) Psilotum  (C) Caytonia	(B) (D)	Rhynea Cycadeoidea
44.	APG – IV system of classification was proposed in (A) 1916 (C) 1888	which ye (B) (D)	ear? 2016 1914
45.	<ul><li>Anthophore is the stalk present between</li><li>(A) Androecium and Gynoecium</li><li>(C) Calyx and Corolla</li></ul>	(B) (D)	Androecium and Corolla Calyx and Bract
46.	Which one is aromatic compound  (A) Anthocyanin  (C) Betacyanin	(B) (D)	Phytol Geraniol
47.	Companion cells are absent in  (A) Bryophyta, Pteridophyta and Gymnosperms  (C) Gymnosperms	(B) (D)	Pteridophyta and Gymnosperms Angiosperms
48.	ETS is present in  (A) Nucleus  (C) Chloroplast	(B) (D)	Nucleolus Mitochondria
49.	Biosphere Reserves are the examples of  (A) In-situ conservation  (C) Ecosystem diversity	(B) (D)	Ex-situ Conservation Ecological adaptation

- 50. Japanese databank of DNA sequences is
  - (A) JDBD

**(B)** DDBJ

(C) DDDS

 $(\mathbf{D})$  JPDB

\*\*\*\*\*