1.	Branched, Filamer the class	ntous extensively grow	ng protonema is the characteris	tic feature of				
	A) Anthocerotopsic	da	B) Bryopsida					
	C) Hepaticopsida		D) Bryophytes					
2.	Appendiculate scal	es and ligules are pre	ent in					
	A) Pellia	B) Anthocerose	C) Marchantia D) Ricci	cia				
3.	Lycopodium is com	nmonly call as						
	A) Peat moss		B) Club moss					
	C) Moss		D) Resurrection plant					
4.	What is the name of	steles of Pteridophyte	where Phloem found on both sid	le of Xylem?				
	A) Siphonostele		B) Dictyostele					
	C) Solenostele		D) Amphiphloic Siphonostele	Э				
5.	The smallest Gymr	nosperm						
	A) Zamia pygmea		B) Cycus circinalis					
	C) Dioon edule		D) Taxus buccata					
6.	Cycus wood is							
	A) Monoxylic	B) Haploxylic	C) Manoxylic D) Pyc	noxylic				
7.	Which of them is sr	mall size tree ?						
	A) Gnetum ula		B) Gnetum gnemon					
	C) Gnetum latifoliu	ım	D) Gnetum mondanum					
8.	Prof. Birbal Sahni i	s known as						
	A) Father of Indian Palaeobotany		3) Father of Palaeozoology					
	C) Father of Palae	opalaynolgy	D) Father of Indian Botany					
9.	Which type of fossi	l is the coal ?						
	A) Petrifaction		B) Impression					
	C) Incrustation		D) Compression					

10.	Which among the fol	lowing is not a fossil g	gym	nosperm ?						
	A) Williamsonia		B)	Glossopteris						
	C) Rhynia		D)	Cordaitanthus						
11.	Which is not a virus	disease ?								
	A) Mumps	B) Diphtheria	C)	Rabies	D)	Herpes				
12.	Bacterial transformat	Bacterial transformation is first described by								
	A) Joshua Lederber	ge	B)	De Herelle						
	C) Griffith		D)	Woolman						
13.	Name the single-stra	anded RNA virus								
	A) T-even phage	B) TMV	C)	G Virus	D)	T-odd phage				
14.	Red algae belong to	the class								
	A) Phaeophycea		B)	Bacillariophycea	е					
	C) Xanthophyceae		D)	Rhodophycea						
15.	Which among the ch	lorophyceae member	is a	floating freshwate	er fo	rm ?				
	A) Caulerpa	B) Cephaleuros	C)	Oedogonium	D)	Bryopsis				
16.	Cystocarp is the repr	oductive structure of								
	A) Sargassum	B) Pinnularia	C)	Polysiphonia	D)	Spirogyra				
17.	Normal number of As	scospores found in a A	Ascı	us						
	A) 8	B) 2	C)	4	D)	Numerous				
18.	The Fungi which is u	ised bereaving indust	ry							
	A) Saccharomyces		B)	Rhyzopus						
	C) Aspergillus		D)	Agaricus						
19.	Which class of fungi	lack sexual reproduct	ion	in their life cycle?						
	A) Zygomycota		B)	Deuteromycota						
	C) Mastigomycota		D)	Myxomycota						

27. The lateral roots in Dicots are originated from Xylem and Phloem are not in same

C) Cortex

D) Pericycle

A -5-

B) Pith

radius

A) Epidermis

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28. Of the following which a killing and fixing fluid

28.	Of the following which a killing and fixing fluid									
	A) FAA	B) DPX	C)	PDA	D)	Xylen				
29.	FAA among the following which is the stain obtained from an organism									
	A) Fast green	B) Sudan Red	C)	Carmine	D)	Safranin O				
30.	The mounting media 'Canada balsam' is obtained from the plant									
	A) Pinus roxburghii		B)	Abies balsamea						
	C) Cedrus deodara		D)	Larix sibirica						
31.	Monosporic 8 nuclea	ted female gametoph	yte	is found in						
	A) Adoxa		B)	Polygonum						
	C) Onion		D)	Fritliiaria						
32.	"Genera Plantarum"	was published by								
	A) Theophrastus		B)	C. Linnaeus						
	C) Jerome Bock		D)	Bentham and Ho	oke	r				
33.	The weak region in the exine of a pollen grain is known as									
	A) Stomium	B) Slit	C)	Colpae	D)	Sporeoderm				
34.	Pod is a characteristi	c fruit of the family								
	A) Malvaceae		B)	Commelinaceae						
	C) Cucurbitaceae		D)	Leguminosae						
35.	Tricarpellary Syncarpous ovary is the characteristic feature of the family									
	A) Papilionaceae		B)	Euphorbiaceae						
	C) Poaceae		D)	Asteraceae						
36.	Among the following	which plant belong to	fan	nily Myrtaceae						
	A) Syzygium jambos	3	B)	Leucas biflora						
	C) Mitragyna parvifo	lia	D)	Tridax procumbe	ns					

37.	The c	haracteristic fru	it of Poaceae				
	A) Po	od	B) Berry	C)	Nut	D)	Caryopis
38.	Amon	g the following	which is not a oil yield	ding	g plant		
	A) Br	assica campes	tris	B)	Arachis hypogeal	l	
	C) Co	orchorus capsu	laris	D)	Linum usitatissim	un	
39.	What	is the botanical	name of Mung ?				
	A) Ph	naseolus radiat	es	B)	Cicer arietinum		
	C) Pi	sum Sativum		D)	Cajanus Cajan		
40.	Use a	and Disuse theo	ry was				
	A) Cł	narles Darwin		B)	Francesco Redi		
	C) Je	an-Baptiste Lar	mark	D)	Greoger Mendel		
41.	Phyllo	oclade is the mo	odification of				
	A) Ro	oot	B) Stem	C)	Leaf	D)	Flower
42.	The p	ioneer commur	nity in a Xeroscere				
	A) Ph	nytoplankton		B)	Curstose lichen		
	C) Pe	eat Moss		D)	Floating hydrophy	/tes	:
43.	Vital i	ndex of a popul	ation is the ratio of				
	A) Bi	$rth \times Death \times 10$	00	B)	Birth – Death \times 10	00	
	C) Bi	rth ÷ Death × 1	00	D)	Birth + Death × 10	00	
44.	Of the	following which	n is not a word to desc	ribe	e different growth f	orm	s of a community
	A) Ph	nanerophytes		B)	Saprophytes		
	C) Th	erophytes		D)	Chamaeophytes		
45.	Amon	g the following	which is a positive int	era	ction between two	po	pulation
	A) Co	ompetition		B)	Antibiosis		
	C) Co	ommensalism		D)	Predation		

46.	The First Global Con	ference on the deplet	ion	of ozone layer wa	s he	eld in			
	A) London			B) Montreal					
	C) Helsinki		D)	Vienna					
47.	Minamata epidemic of fish contaminated	disease happened in J by	apa	n and Sweden wa	s du	e to consumption			
	A) Mercury	B) Lead	C)	Phosphorous	D)	Cyanides			
48.	Among the following	which is a physical p	ollu	tant					
	A) Radioactive substance			B) SPM					
	C) Pesticides		D)	PCBs					
49.	Knock-knee syndrom	ne is due to							
	A) Lead pollution			B) Mercury pollution					
	C) Fluoride pollution			Solid waste pollu	tion				
50.	What is the safe nois	e level of city fixed by	WH	HO ?					
	A) 20 dB	B) 90 dB	C)	150 dB	D)	45 dB			
51.	The headquarters of	IUCN							
	A) Switzerland	B) USA	C)	Germany	D)	France			
52.	Which among the fol	lowing is not a charac	ter	of Plasma membra	ane	?			
	A) Elastic		B)	B) Selectively permeable					
	C) Made up of cellulose			Living					
53.	What are autosomes	?							
	A) Sex chromosomes		B) Non-sex chromosomes						
	C) DNA		D)	Haploid chromos	ome	Э			
54.	Which is not a structu	Which is not a structural part chromosome?							
	A) Centromere		B) Telomere						
	C) Nucleolar oragan	izer	D)	Spindle					

?

55.	In which stage of prophase I of meiotic cell division, terminalisation of Chiasmata occur									
	A) Leptotene	B)	Pachytene	C)	Diakinesis	D)	Diplotene			
56.	Who first discovered the Nucleus in plant cell?									
	A) W. Flemming			B)	Barbara McClint	ock				
	C) Robert Brown			D)	Strasburger					
57.	Replication of DNA i	is								
	A) Conservative			B)	Semi-conservati	ve				
	C) Non-conservative	е		D)	None of the above	ve				
58.	Which among the fol	llowi	ing plasmid vector	s us	sed for cloning?					
	A) pBR 322	B)	pUC 19	C)	Ti I	D) A	ll of the above			
59.	The location of respiratory enzymes in plant cell is									
	A) Cristae			B)	Mitochondrial ma	atrix				
	C) Perimitochondria	l sp	ace	D)	Cytoplasm					
60.	Which of the following helps in ascent of sap?									
	A) Transpiration			B)	Root pressure					
	C) Both A) and B)			D)	None of the abo	ve .				
61.	Who invented Mass	Spe	ctrometer?							
	A) Goldstein			B)	J. J. Thompson					
	C) Nikola Tesla			D)	Aston					
62.	Among the following	y whi	ich is a oligosacch	ario	de					
	A) Glucose			B)	Glycogen					
	C) Lactose			D)	Galactose					
63.	The enzyme catalyse	es th	ne breakdown of c	arbo	ohydrate is					
	A) Protease			B)	Amylase					
	C) Lipase			D)	Gelatinase					



64. Which is the radioactive isotope used in the location of Brain tumours? A) lodin-131 B) Cobalt-60 C) Carbon-11 D) Carbon-14 65. Among the following which is the demerit of Arithmetic Mean A) It has the simplest formula to calculate and easily understood B) The extreme values have greater effect on mean C) It is least affected by sampling fluctuation D) The same result will come on repeated calculations 66. The formula $\sum \frac{(O-E)^2}{F}$ is for calculating B) T-test A) Chi-square test C) Coefficient of variation D) Standard deviation 67. Western blotting is used for the detection of A) Specific glycolipid in a sample B) Specific protein in a sample C) Specific DNA in a sample D) Specific RNA in a sample 68. Hormone pair required for callus initiation are A) Auxin and Ethylene B) Auxin and Absiccic acid C) Cytokinins and Gibberellin D) Auxin and Cytokinin 69. Which of the following is a protein sequence database? A) EMBL B) PIR C) DDBJ D) GenBank 70. Among the following which is not a sequence alignment tool A) FASTA B) BLAST

C) Rasmol

D) Clustal W

71. Which among the following is not true in the case of creativity? A) Creativity is universal B) Creativity carries ego involvement C) Sociability and creativity are positively corrected D) Creativity has a wide scope 72. Which of the following is the highest level in attitude formation? A) Characterisation B) Precision C) Imitation D) Organisation 73. The test which predicts the future performance of a student in a particular area is known as A) Diagnostic test B) Achievement test C) Prognostic test D) None of the above 74. Maximum involvement of students in learning is possible through A) Lecture method B) Lecture demonstration method C) Biographical method D) Project method 75. Field trip and excursions can be included in which category of teaching aids? A) 3 dimensional aids B) Activity aids C) Graphic aids D) Projected aids 76. By minimizing the Type I error, the probability of making a Type II error is A) Decreased B) Increased C) Unaffected D) Cut in half 77. The introduction of a research report proceeds A) From general to specific B) From specific to general C) From general to specific and back to general again D) From general to the results of the research 78. Content validity is not significant in the case of A) Achievement test B) Intelligence test D) None of the above C) Both A) and (B) 79. Which among the following is a non probability sampling technique? A) Stratified sampling B) Multistage sampling C) Systematic sampling D) Purposive sampling 80. Which of the following is not an example of active deception? A) Making false promises to participants B) Misrepresenting true purposes of research C) Making concealed observations of participants D) Pseudoparticipants Α -11-



- 81. Which of the following State does not adopt the transplantation of Human Organs Act? A) Andhra Pradesh B) Assam D) Manipur C) Tamil Nadu 82. As workers are related with which of the following government mission? A) NUHM B) NRHM C) MNREGP D) RLEGP 83. Organisation which took initiative for the implementation of Right to Information Act in India is A) Bharathiya Kisan Union B) Consumer Education and Research Centre C) Amnesty International D) Mazdoor Kisan Sakthi Sanghathan 84. Which of the followings are not correct regarding the 'Paris Climate Accord'? i) It is an agreement within the frame work of UNFCCC ii) It aims to mitigate green house gases iii) It came into force from December 2015 iv) It emphasises on consensus building and allow for voluntary and nationally determined targets A) Both i) and ii) B) Both iii) and iv) C) iii) only D) iv) only 85. 'Kaithangu' is a scheme of the Government of Kerala for A) The protection of physically handicapped children under the age limit of 14 B) The prevention of atrocities against women and children C) Safeguarding the non-married mothers of the tribal areas
 - D) Extending medical aid to the cancerous senior citizen ladies
- 86. In which case the Supreme Court of India observed that the Governor occupies the same constitutional status as the President at the central level?
 - A) Ram Jawaya Kapoor Vs The State of Punjab
 - B) S. R. Bommai Vs The Union of India
 - C) I. C. Golaknath and Ors Vs The State of Punjab
 - D) Kesavananda Bharathi Vs The State of Kerala

87. Which of the following statement is correct regarding the 25th Constitutional Amendment Act of 1971?

- A) Gave superiority to Article 38 over right to equality and made the provision that it could not be challenged in any court under Article 32
- B) Gave power to Parliament to amend any part of the Constitution including Fundamental Rights
- C) Article 363 A was inserted and abolished Privy Purse paid to the former rulers of the Princely states
- D) Fundamental Rights were made subordinate to directive principles of State Policy as given under Article 39
- 88. Read the following statements regarding the Union Public Service Commission, bring out the incorrect statement.
 - A) It is inserted through the 15th Amendment Act of 1963
 - B) The Central Vigilance Commission has a decisive role in the disciplinary matters of the Union Public Service Commission
 - C) It is concerned with the classification of services and disciplinary matters of the personnel
 - D) The Chairman or the members of the Union Public Service Commission is not eligible for reappointment
- 89. The Verma Committee of 1999 was appointed in relation with
 - A) Identification of legal provision for the implementation of some fundamental duties
 - B) The review of Governor's role in the State Administration
 - C) Human Rights Violations against women and children
 - D) Implementation of Right to Education
- 90. Which of the followings are correct regarding the Finance Commission of India?
 - i) It is a quasi-judicial body.
 - ii) It submits its report to the Parliament.
 - iii) The members of the Finance Commission are eligible for reappointment.
 - iv) According to Article 148 of the Constitution, comptroller and Auditor General of India is an ex-officio member of the Finance Commission
 - A) i) and ii) are correct

B) ii) and iii) are correct

C) i) and iii) are correct

D) i) and iv) are correct

Α



91.	The Biography of O. A) Bhashaposhini	Chandu Menon was t		published in Vivekodayam		
	C) Mithavadi		•	Malayalee		
00	,	:	,	•		
92.	The Kallumala agitat A) 1912	ion took place in the y B) 1913		1914	D)	1915
	,	•	,		,	1010
93.	Who among the follo	owing founded the ne	-	•		
	A) C. KesavanC) T. K. Madhavan		,	C. V. Kunjuramar Moorkoth Kumara		
	,		ט)	WOOROUT Rumare	X 111	
94.	Who wrote the book	•	Β,	D 11 11 11 11		
	A) Pampadi John Jo	·	,	Poikayil Yohanna		_
	C) Palakkunnath Ab	ranam Maipan	D)	P. K. Chathan Ma	ıster	ſ
95.	Who was the founde	r of 'Sree Narayana S	Sevil	ka Samaj' ?		
	A) C. Krishnan		,	Sahodaran Ayya	ppar	n
	C) Dr. Palpu		D)	K. P. Vellon		
96.	Which city is declare	d India's First world H	lerit	age city by the UN	IES	CO ?
	A) Amritsar		B)	Ahmedabad		
	C) Hyderabad		D)	Mysore		
97.	Which International C	Organisation turns 50	in 2	017 ?		
	A) NATO	-	B)	SEATO		
	C) ASEAN		D)	SAARC		
98.	The Murlen National	Park is located in				
	A) Karnataka	B) Mizoram	C)	Tripura	D)	Sikkim
99.	Which State in India	has launched India's	first	electric bus ?		
	A) Himachal Prades	h	B)	Punjab		
	C) West Bengal		D)	Rajasthan		
100	National Rural Deve	lopment Institute is si	tuat	ed at		
	A) Hyderabad			Mumbai		
	C) Pune		,	Chennai		

Space for Rough Work

Α -15-



Space for Rough Work