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No.	

Total No. of Pages: 20

P.G. Entrance Examination, June - 2022 M.Sc. Agro Chemical & Pest Management Sub. Code: 58726

			Sub	Couc . 3072	10	
•			urday, 11 - 06 - 20 o 02.30 p.m.	022	Total Marks: 100	0
Inst	ructions :	1) 2) 3) 4) 5)	darkening the ap Follow the instr	arries one mark. d be marked in opropriate option uctions given on		•
1)			rion, Yolk sac & nta formation	Allantois in this	s four elements one of it not tak	e
	(A) Che	orion		(B)	Yolk sac	
	(C) All	antois		(D)	Amnion	
2)	The gills	s are	covered by bony	operculum in		
	(A) Sha	ark		(B)	Electric ray	
	(C) Lat	oeo		(D)	Sting ray	
3)	Restricti	on en	zymes are also c	called		
	(A) mo	lecula	nr knives	(B)	molecular scissors	
	(C) mo	lecula	ar scalpels	(D)	all of these	

4)	Sagitta belongs to the Phy	lum
	(A) Bryzoa	(B) Pogonophora
	(C) Branchiopoda	(D) Chaetognatha
5)	Saliva of Leech contains _	an anticoagulation agent.
	(A) Haemoglobin	(B) Hirudin
	(C) Haemocyanin	(D) Haemozoin
6)	Tuberculosis in Man is ca	used by
	(A) Spirochaetes	(B) Plasmodium
	(C) Salmonella	(D) Mycobacterium
7)	At the end of Spermatoge are produced.	nesisnumber of motile sperms
	(A) 2	(B) 4
	(C) 8	(D) 1
8)	National park	in India is made for conservation of Rhinoceros.
	(A) Sanjay Gandhi	(B) Chandoli
	(C) Kaziranga	(D) Tadoba
9)	The geographical classification	ation is based on the
	(A) Time of it's occurrence	e (B) Location
	(C) Well defined attribute	(D) Quantity

10)		techniques used to analyse genes on to of science is known as		_
	(A)	Genomics	(B)	Gene isolation
	(C)	Genetics	(D)	All of above
11)	Sexu	ual reproduction conjugation occurs	in _	·
	(A)	Plasmodium	(B)	Amoeba
	(C)	Paramoecium	(D)	Euglena
12)	In D	NA replication, Okazaki fragments	are jo	oined by
	(A)	Endonuclease	(B)	Ligase
	(C)	Gyrase	(D)	Exonuclease
13)		are fat soluble vitamins.		
	(A)	A and D	(B)	A, D, E & K
	(C)	B and C	(D)	A,B and C
14)	Acc	ording to Arrhenius, acid is the substa	ance	which in aqueous medium gives
	(A)	H ⁺	(B)	OH -
	(C)	C1 ⁻	(D)	O
15)	Vibr	ational transition exists in		
	(A)	Infra-red	(B)	Microwave
	(C)	Radio wave region of the spectrum	(D)	Ultra violet

16)	Inter	rnal reference used in NMR is		
	(A)	CHCl ₃	(B)	Acetone
	(C)	Ethyl acetate	(D)	Tetra-methyl silane
17)	Whi	ch of the following shows a triplet a	nd qu	uartet in NMR?
	(A)	Acetone	(B)	3-Pentanone
	(C)	Chloroform	(D)	Benzene
18)		compound which shows M+2 peak nass spectrum. This indicates that it o		
	(A)	Chlorine	(B)	Bromine
	(C)	Fluorine	(D)	Phosphorus
19)	Ethy	acetoacetate reacts with hydrazine	to giv	ve
	(A)	Anti-pyrine	(B)	Aspirin
	(C)	Uracil	(D)	Chloromycetine
20)	The	starting materials for polyamide fibr	e is	
	(A)	Phenol and formaldehyde		
	(B)	Adipic acid & Hexamine		
	(C)	Dimethyl terephthalate and ethylene	glyc	ol
	(D)	Hexamine & ethylene glycol		

21)	Whi	ch of the following is used as a starti	ng m	aterial for Vitamin-A?
	(A)	Beta-ionone	(B)	Alpha-ionone
	(C)	Alpha-ionone	(D)	Geraniol
22)	Whi	ch of the following is a non-reducing	g suga	ar?
	(A)	Sucrose	(B)	D-glucose
	(C)	Galactose	(D)	Maltose
23)	End	osulphan is used as a		
	(A)	Insecticide	(B)	Plant growth regulator
	(C)	Herbicide	(D)	Fumigant
24)		node is known as pacem	aker.	
	(A)	VA	(B)	AV
	(C)	SA	(D)	AS
25)	In th	ne mass spectrum of benzene the base	se pea	ak obtained at m/e,
	(A)	91	(B)	92
	(C)	77	(D)	51
26)	The	carbaryl is a,		
	(A)	Carbamate Insecticide	(B)	Organophosphorus insecticide
	(C)	Insecticide	(D)	Pyrethroid

27)	Whi	ch of the following is basic in nature	e?	
	(A)	Pyridine	(B)	Furan
	(C)	Thiophene	(D)	All the above
28)	NM	R spectra are observed in		region.
	(A)	Radiofrequency	(B)	Microwave
	(C)	UV-Visible	(D)	X-ray
29)		molecules of acetaldehyde underg	o cor	ndensation to form a product in
	(A)	Perkin reaction	(B)	Aldol condensation
	(C)	Mannich reaction	(D)	Claisen condensation
30)	Read	ction of carbonyl compound. With y	ield t	o form olefin is known as?
	(A)	Cannizzro reaction	(B)	Hoffman reaction
	(C)	Wittig reaction	(D)	Diels Alder reaction
31)	Whi	ch of the following compounds is no	ot arc	omatic?
	(A)	Naphthalene	(B)	Benzene
	(C)	Phenol	(D)	Cyclohexane
32)	Red	uction means the addition of		
	(A)	Hydrogen	(B)	Oxygen
	(C)	Water	(D)	Ammonia

33)	Whi	ch of the following constituent of bo	ones a	and teeth?
	(A)	Sulphur	(B)	Calcium
	(C)	Phosphorus	(D)	Carbohydrates
34)	The	double helicle structure of the DNA	is pr	roposed by
	(A)	F.Sanger	(B)	Watson & Crick
	(C)	H.Khorana	(D)	A.Fleming
35)		is structural and fund	ctiona	al unit of kidney.
	(A)	alveolus	(B)	nephron
	(C)	neuron	(D)	villi
	_			
36)	Rect	tified spirit contains,		
	(A)	70% ethanol	(B)	90% ethanol
	(C)	96% ethanol	(D)	100% ethanol
37)	Indo	eleacetic acid is a		
,		Plant growth regulator	(B)	Insecticide
		Herbicide	, ,	Fungicide
	, ,		` ,	J
38)	Haei	moglobin contains which of the follo	wing	element in its structure
	(A)	Mg	(B)	Fe
	(C)	Na	(D)	Zn

39)	Casl	new-nut shell oil contains		
	(A)	Benzene	(B)	Naphthalene
	(C)	Cardanol	(D)	Citral
40)	Etho	ophan is		
	(A)	Insecticide	(B)	Plant growth regulator
	(C)	Fungicide	(D)	Weedicide
41)	For	a linear molecule such as HCl, the n	umbe	er of mode of vibration are
	(A)	Zero	(B)	1
	(C)	2	(D)	3
42)	Abs	olute alcohol contains		
	(A)	96% alcohol	(B)	100% alcohol
	(C)	90% alcohol	(D)	40% alcohol
43)	Anil	line is separated from a mixture by		·
	(A)	Fractional crystallization	(B)	Fractional distillation
	(C)	Steam distillation	(D)	Vacuum distillation
44)	VAN	M is a		
	(A)	Bacteria	(B)	Fungi
	(C)	Virus	(D)	Algae

45)	Whi	ch of the following is not a commor	n met	hod used for purification?
	(A)	Sublimation	(B)	Crystallization
	(C)	Electrolysis	(D)	Chromatography
46)	Hon	ey bee house is also called as		
	(A)	Coral	(B)	Nest
	(C)	Hive	(D)	None of these
47)	Fluc	prescence is the property when X-ray	falls	on a material it emits
	(A)	Infrared Waves	(B)	Visible Light
	(C)	Gamma rays	(D)	UV light
48)		materials which offer no resist	ance	to the passage of electricity
	(A)	Superconductors	(B)	Semiconductors
	(C)	Optical fibre	(D)	Smart material
49)	Whi	ch antibiotics was 1st time demonstr	ated l	oy Fleming (1929)?
	(A)	Penicillin	(B)	Streptomycin
	(C)	Tetracycline	(D)	Gliotioxin
50)	Dur	ing the collection of e-h pairs, holes	are o	collected by
	(A)	Front contact	(B)	Back contact
	(C)	Si-wafer	(D)	Finger electrodes

51)	In s	single X-ray diffraction measure	emen	t, the crystal is mounted on
	(A)	X-ray source	(B)	Goniometer
	(C)	Diffraction Plate	(D)	Fluorescent plate
52)	Amı	monia issolvent.		
	(A)	non-polar	(B)	non-aqueous
	(C)	non-ionizing	(D)	aqueous
53)	Univ	versal solvent is		
	(A)	liquid NH ₃	(B)	liquid SO_2
	(C)	water	(D)	acetic acid
54)		ch of the following Quantum number orbitals?	er hel _j	ps to distinguish the electrons of
	(A)	Spin quantum no.	(B)	Azimuthal quantum no.
	(C)	Magnetic quantum no.	(D)	Principal quantum no.
55)	In S	N1 reaction is		
	(A)	first order	(B)	all the these
	(C)	both 1 and 2	(D)	second order
56)	Wha	at is S. I. unit of Surface tension?		
,	(A)	Dyne/meter	(B)	Newton/meter
	(C)	Newton-meter	(D)	Dyne-meter

57)	The	disease Ascariasis is produced by		
	(A)	Round worms	(B)	Filarial worms
	(C)	Hook worm	(D)	Pin worm
58)	Tikk	ca disease of groundnut is caused		
	(A)	Cercosporidium personatum	(B)	Cercospora beticola
	(C)	Cercospora apii	(D)	None of these
59)	Zn c	leficiency is a common problem in		
	(A)	Wheat	(B)	Maize
	(C)	Rice	(D)	Sugarcane
60)	Rod	shaped, filamentous and straight ba	cteria	a are known as
	(A)	Bacillus	(B)	Staphylococcus
	(C)	Spirillus	(D)	Coccus
61)	The	nucleus is absent in		
	(A)	Green alga	(B)	Fungi
	(C)	Bacteria	(D)	All above
62)	Mar	k the correct statement.		
	(A)	Histones are acidic proteins	(B)	Histones are basic proteins
	(C)	Histones are neutral proteins	(D)	Histones are not neutral proteins

63)	80s r	ibosome contain two subunits of 60)s and	d		
	(A)	20s	(B)	30s		
	(C)	40s	(D)	50s		
64)	80s	of eukaryotic ribosome dissociate i	nto _			
	(A)	60s and 40s	(B)	60s and 20s		
	(C)	50s and 30s	(D)	30s and 40s		
65)	Cata	abolic enzymes are rich in	·			
	(A)	Chloroplast	(B)	Lysosomes		
	(C)	Mitochondria	(D)	Ribosomes		
66)		particles are present on inner membrane of mitochondria.				
	(A)	Fl particles	(B)	F2 particles		
	(C)	F3 particles	(D)	F4 particles		
67)		is responsible for energy iration.	cons	servations reactions of aerobic		
	(A)	Mitochondria	(B)	Chloroplast		
	(C)	Golgi bodies	(D)	E.R		
68)	The	unit of measuring the BP is		_		
	(A)	Hg	(B)	mmhg		
	(C)	Kg	(D)	micron		

69)	To k	enow overall energy transformations	s knov	wledge ofis essential.
	(A)	Biophysics	(B)	Biochemistry
	(C)	Thermodynamics	(D)	None of the above
70)	Enz	ymes are also called		
	(A)	Biocatalyst	(B)	Bio-indicators
	(C)	Bio-activators	(D)	All above
71)	In e	lectron microscopy is	used	as a source of illumination.
	(A)	Beam of electrons	(B)	Beam of light
	(C)	Beam of ions	(D)	Beam of neutrons
72)	In c	hromatographypape	er is c	commonly used.
	(A)	Filter paper	(B)	Graph paper
	(C)	Whatmann no. 1	(D)	Bloating paper
73)	Kary	yokinesis differs from cytokinesis b	ecaus	se it involves
	(A)	Division of nucleus	(B)	Division of cytoplasm
	(C)	Division of cell	(D)	None of the above
74)	TLC	C is an chromato	graph	ny.
	(A)	Absorption	(B)	Adsorption
	(C)	Activation	(D)	None

75)	5) The largest mitotic phase in onion root tip is			·
	(A)	Telophase	(B)	Prophase
	(C)	Anaphase	(D)	Metaphase
76)	Win	d is important factor		
	(A)	Edaphic	(B)	Biotic
	(C)	Climatic	(D)	Physiographic
77)		Plant is used as wind brea	ker p	lant.
,		Casuarina		Delonix
	(C)	Azadirachta	(D)	Mangifera
78)	Diff	usion is the process		
	(A) The movement of substance from high concentration to low concentration			oncentration to low concentration
	(B) The movement of substance from low concentration to high concentration			
	(C) The movement of substance from medium concentration to his concentration			nedium concentration to high
	(D)	The movement of substance from concentration	om n	nedium concentration to low
79)	Mill	x, Egg, Meat is a good source of		<u> </u>
	(A)	Carbohydrates	(B)	Vitamins
	(C)	Fats	(D)	Proteins

80)	o) soil is having rich water holding capacity.			g capacity.		
	(A)	Silt	(B)	Clay		
	(C)	Sandy	(D)	Loamy		
81)	Cell	wall is				
	(A)	Permeable	(B)	Impermeable		
	(C)	Partially permeable	(D)	Semi-permeable		
82)	Osm	nosis means				
	(A)	(A) Movement of solvent from low concentration to high concentration through semi-permeable membrane				
	(B)	B) Movement of solvent from low concentration to high concentration. through membrane				
	(C)	(C) Movement of solvent of equal concentration				
	(D) Movement of solvent from high concentration to low concentration through membrane					
83)	The	upward movement of water and sa	lts fr	om root to aerial parts is called		
	(A)	Ascent of sap	(B)	Formation of sap		
	(C)	Lifting of sap	(D)	Cohesion of sap		
84)	Tran	nspiration mainly occurs through				
	(A)	Stems	(B)	Leaves		
	(C)	Flowers	(D)	Roots		

85)	Stor	nata is a natural		
	(A)	Cell	(B)	Pore
	(C)	Guard cell	(D)	Subsidiary cell
86)		loss of water in the form of water v	apor	by aerial parts of the plant body
	(A)	Ascent of sap	(B)	Guttation
	(C)	Transpiration	(D)	Water movement
87)	-	corrhizal roots are present invater for plants.		_ carry out the role of absorption
	(A)	Taxus	(B)	Pinus
	(C)	Abies	(D)	Cycas
88)	Case	cuta is		
	(A)	Total parasite	(B)	Partial parasite
	(C)	Epiphyte	(D)	Symbioint
89)		are called higher vascular	r plan	nts.
	(A)	Bryophytes	(B)	Gymnosperms
	(C)	Angiosperms	(D)	Pteridophytes
90)	In c	hick embryo development of brain	from	
	(A)	Mesoderm	(B)	Ectoderm
	(C)	Endoderm	(D)	Mesoendoderm

91)	Live	er oil is obtained from the liver of _		fish.
	(A)	Sardine	(B)	Cod
	(C)	Mackere	(D)	Tuna
92)	Base	ed on distribution of yolk the egg o	of inse	ect is
	(A)	Centrolecithal	(B)	Isolecithal
	(C)	Megalecithal	(D)	Telolecithal
93)		are required as building t	olocks	for polypeptide chain synthesis.
	(A)	Fatty acids	(B)	Nucleotides
	(C)	Amino acids	(D)	Phosphoric acids
94)	Grea	at barrier reef is present in		
	(A)	South America	(B)	India
	(C)	Australia	(D)	England
95)	Sout	thern blot is the technique for		blot
	(A)	DNA	(B)	RNA
	(C)	Lipid	(D)	Protein
96)	Sea	star is exclusively	anim	al.
	(A)	Fresh water	(B)	Marine water
	(C)	Pond water	(D)	None of these

97)	7) The radial canals of Sycon are lined with flagellated collar cells called			lated collar cells called
	(A)	Pinacocytes	(B)	Choanocytes
	(C)	Myocytes	(D)	Scleroblast
98)		is the combination of hasharing of information between comp		
	(A)	Network	(B)	Digital device
	(C)	Peripheral	(D)	Expansion board
99)	Rep	roduction in Paramecium takes plac	ce by	·
	(A)	Sporulation	(B)	Encystment
	(C)	Conjugation	(D)	Budding
100)	bird is threatened in India.		
	(A)	Jungle fowl	(B)	Crow
	(C)	Indian Bustard	(D)	Parrots



Rough Work

Rough Work