Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	Viral repl	lication within cells is inhibited by				
	(A)	IL-4	(B)	IL-1		
	(C)	IFN alpha	(D)	TNF alpha		
2.	A baby's f	ärst breath is facilitated by a specia	al coating	which is produced by lungs:		
	(A)	Pyridoxine .	(B)	Ferritin		
	(C)	Carbon dioxide	(D)	Surfactant		
3.	Arrhenote	okous parthenogenesis is exhibited	by:			
	(A)	Artemia	(B)	Daphnia		
	(C)	Weevils	(D)	Bees		
4.	Colourles	s plastids which are found in embr	yonic and	germ cells:		
	(A)	Leucoplasts	(B)	Chromoplasts		
	(C)	Elaioplasts	(D)	Sterinoplast		
5.	Most nois	onous vertebrate on earth :				
٠.	(A)	Jelly Fish	(B)	Golden Dart Frog		
	(C)	Brazilian wandering Spider	(D)	Puffer fish		
6.		fin that is asymmetrical internally led and slightly bent upward at the	The state of the s	rical superficially but vertebral column own as:		
	(A)	heterocercal	(B)	homocercal		
	(C)	protocercal	(D)	diphycercal		
7.	In Philade	elphia Syndrome :				
	(A)	(A) translocation between 8 and 14 chromosome occurs				
	(B)	translocation between 9 and 22 cl	hromosom	e occurs		
	(C)	inversion between 5 and 9 chrome	osomes			
	(D)	addition in between 9 and 22 chro	omosomes			

8.	DNA pro	ofiling technique to demo e to some specific protein	nstrate the similari coding DNA seque	ty between different animace is called:	al species with
	(A)		(B)		
	(C)	Animal Blot	(D)	Animal profiling	
9.	If a gene termed a	product in Species A is	90% similar to ger	ne product in Species B. S	uch genes are
	(A)	Orthrologous	(B)	Paralogous	
	(C)	Allologous	(D)	Perilogous	
10.	Phleboto	mus is commonly known	as:		
	(A)	Rockfly	(B)	Sandfly	
	(C)	Butterfly	(D)	Damselfly	
11.	Name a f	reshwater sponge :			
	(A)	Scypha	(B)	Leucosolenia	
	(C)	Grantia	(D)	Spongilla	
12.	Which of	the following is known a	s eye worm?		
	(A)	Loa	(B)	Entrobius	
	(C)	Dracunculus	(D)	Rhabditis	
13.	Caviar is	prepared from :			
	(A)	Polypterus	(B)	Acipencer	
	(C)	Polydon	(D)	Lepidosteus	
14.	Who name	ed Archaeopteryx?			
	(A)	Von Euler	(B)	Andrew Wagner	
	(C)	Charles Darwin	(D)	Von Meyer	
15.	How many	molecules of ATP are fo	rmed when 1 mole o	of glucose is converted to I	actic Acid -
	(A)	2 ATP	(B)	4 ATP	actic riciu .
	(C)	6 ATP	(D)	8 ATP	
16.	Omega oxi	dation takes place in :			
	(A)	Plants	(B)	Yeast	
	(C)	Fungi	(D)	Bacteria	
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17.	Which of	the following is a ketoger	nic aminoacid?		
	(A)	Alanine	(B)	Glutamine	
	(C)	Tyrosine	(D)	Aspargine	
18.	Name the	amino nitrogen excreted	l by spiders :		
	(A)	Adenine	(B)	Guanine	
*	(C)	Cytosine	(D)	Xanthine	
19.	Phosphag	ens used in vertebrates a	are derived from:		
	(A)	Creatine	(B)	Ascorbic Acid	
	(C)	Acetylcholine	(D)	Arginine	
20.	Which of	the muscle is syncytial?			
	(A)	Flight Muscle	(B)	Catch Muscle	
	(C)	Cardiac Muscle	(D)	Fibrîllar Muscle	
21.	Field and	Spiro theory emphasizes	the involvement of	following in blood coagulation:	
- X	(A)	Thrombokinase	(B)	Thrombin	
	(C)	Thromboplastin	(D)	Calcium ions	×
22.	Angiotens	sinogen is converted into	Angiotensin by the	enzyme :	1
	(A)	Prorenin	(B)	Renin	
	(C)	Rennin	(D)	Protease	
23.	Which of	the following is the inhib	itory mediator in th	e brain?	
	(A)	Acetyl choline	(B)	Noradrenaline	
	(C)	Seratonine	(D)	GABA	
24.	Muscle to	ne is maintained in the n	nuscle by:		
	(A)	Stretching	(B)	Relaxation	
	(C)	Partial contraction	(D)	Flexion	
25.	Name the	hormone which induces	lactation in mamma	als:	
	(A)	Progesterone	(B)	Relaxin	
	(C)	Oxytocin	(D)	Oestrogen	

26.	Name bio	chemical compound present	in FSH:	
	(A)	Glycoprotein	(B)	Polypeptide
	(C)	Steroid	(D)	Aminoacid
27.	Osteolysia	s is caused by :		
	(A)	Thyroxine	(B)	Calcitonin
	(C)	Triodothyronine	(D)	Parathormone
28.	Recogniti	on and destruction of mutan	at cells is called:	
	(A)	Homeostasis	(B)	Surveillance
	(C)	Phagocytosis	(D)	Apoptosis
29.	The main	cell surface marker of NK c	ell is:	
	(A)	CD <sup>3</sup>	(B)	CD <sup>4+</sup>
	(C)	CD <sup>56+</sup>	(D)	CD <sup>8+</sup>
30.	Free linki	ng immunoglobulin molecul	e chains :	
	(A)	S-H bond	(B)	H-H bond
	(C)	S-S bond	(D)	Peptide bond
31.	Which of	the following antibody is sec	reted by MALT?	
4	(A)	IgA	(B)	IgD
	(C)	IgE	(D)	1gM
32.	Protein of	the alternate complement p	oathway factor D	
	(A)	α globulin	(B)	$\beta$ globulin
	(C)	∞ globulin	(D)	delta globulin
33.	MHC Clas	ss I antigens expressed on a	ll cells except :	
	(A)	Monocytes	(B)	T-Lymphocytes
	(C)	B-Lymphocytes	(D)	Trophoblasts
34.	HLA Anti	gen associated with Rheuma	atoid arthritis :	
	(A)	DR3	(B)	DR4
	(C)	DR2	(D)	DR7

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35.	Which T	cell subset stimulate B-cell to produce	antibo	dy?
	(A)	T <sub>H</sub> cell	(B)	T <sub>DTH</sub> cell
	(C)	T <sub>c</sub> cell	(D)	CTL cell
36.	Name the	target antibody of Myastenia gravis :		
	(A)	Insulin receptor	(B)	TSH receptor
	(C)	Ach receptor	(D)	Adrenergic receptor
37.	Which of human ge		sent in	the highest numbers in the within the
	(A)	Minisatellite	(B)	Microsat
	(C)	SNP	(D)	RFLP
38.	The unus	ual property of Taq Polymerase that is	critica	al to the PCR is its :
	(A)	ability to use ddNTPs as substrate	(B)	ability to use dNTPs as substrate
	(C)	ability to use RNAs as template	(D)	thermostability
39.	Which of	the following is not characteristic of go	nomic	libraries?
	(A)	They contain random fragments of g	enomic	DNA
	(B)	They contain introns as well as exon	S	
	(C)	They include cDNA copies		
	(D)	They contain all the above		
40.	Which of	the following enzyme activities has an	RNA	component?
	(A)	RNAase P	(B)	Peptidyl transferrase
	(C)	Telomaerase	(D)	All of the above
41.	Among the		ised fo	r preserving pituitary gland meant for
	(A)	Formalin	(B)	Malachite Green
	(C)	Methylene Blue	(D)	Acetone
42.		ate with the highest marine capture Statistics (2014) is:	fisher	ies production as per the latest Indian
	(A)	Andhra Pradesh	(B)	West Bengal
	(C)	Gujarat	(D)	Kerala
14		-		0.47/9016

43.	Groupers	are:		
	(A)	Protandrous hermaphrodites	(B)	Protogynous hermaphrodites
	(C)	Gynogenetic	(D)	Androgenic
44.	Which of	the following, is not recommended	for eradic	ation of weed fish in ponds?
	(A)	Dichlorvos	(B)	Ammonium sulphate and lime
	(C)	Tea seed cake	(D)	Mahua oil cake
45.		n recommended stocking density of guidelines in India is :	Litopenae	us vannamei post-larvae for farming as
	(A)	40 PL/m <sup>2</sup>	(B)	50 PL/m <sup>2</sup>
	(C)	60 PL/m <sup>2</sup>	(D)	80 PL/m <sup>2</sup>
46.	Which me	ethod of stripping is most preferred	in fish?	
	(A)	Hot	(B)	Cold
	(C)	Wet	(D)	Dry
47.		limit of total nitrogen (as N) in as recommended by CAA is:	the wast	te water discharged from aquaculture
	(A)	0 mg/L	(B)	2 mg/L
	(C)	4 mg/L	(D)	6 mg/L
48.	Normal s	eason for prawn filtration in Pokka	li fields of	f Kerala is :
	(A)	June - November	(B)	August - January
	(C)	September – February	(D)	November - April
49.	A strain	of Vibrio parahaemolyticus causes t	he diseas	e condition in shrimp called :
	(A)	AHPND	(B)	White spot disease
	(C)	EHP	(D)	Luminescent disease
50.	Zoea larv	ae of the marine shrimp Penaeus m	nonodon fe	eeds on :
	(A)	Copepods	(B)	Artemia
	(C)	Algae	(D)	All of the above
51.	All male	seed production in freshwater praw	ns is brou	ight about by:
	(A)	Y-Y Super male technique	(B)	Testosterone therapy
2	(C)	Andrectomy	(D)	Androgenesis
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52.	Ovaprim	is:		
	(A)	FSH and LH	(B)	GnRH and dopamine blocker
	(C)	HCG	(D)	17 beta-estradiol
53.	Among th		the I	FAO Code of Conduct for Responsible
	(A)	The Code is global in scope	(B)	The Code is non-voluntary
	(C)	Applies to fisheries and aquaculture	(D)	None of the above
54.	Which of	the following fish has the highest wate	r cont	ent?
	(A)	Anchovies	(B)	Sardine
	(C)	Mackerel	(D)	Bombay duck
55.	About 65-	70% of the protein in fish is composed	of	
	(A)	Sarcoplasmic protein	(B)	Myofibrillar protein
	(C)	Collagen	(D)	Albumin and globulin
56.	Effective	inhibition of toxin producing Chlostrid	ium b	otulinum in fish is by:
	(A)	Packing in oxygen	(B)	Packing in ozone
	(C)	Packing in argon	(D)	Packing in ammonia
57.	Which of	the following is a common causative of	off-fla	avour in farmed fish meat:
	(A)	8-iso-prostaglandin	(B)	17 beta estradiol
	(C)	2-methyl-isoborneol	(D)	2-acetyl phenothiazine
58.	Which of	the following, if present, is a major qua	ality in	ndicator of canned tuna?
	(A)	Lactic Acid	(B)	Histamine
	(C)	Tryptamine	(D)	Volatile fatty acids
59.	Stiffening	g of muscle of fish after it is dead is cal	led:	
	(A)	Denaturation	(B)	Gelatinization
	(C)	Rigor mortis	(D)	Hypertonia

60.	Which of contact?	f the following organisms if p	present in fis	sh would reflect the degree of huma
	(A)	Salmonella	(B)	Pseudomonas
	(C)	Escherichia coli	(D)	Staphylococcus
61.	Ciguater	a poisoning is caused by eating	certain:	
	(A)	Copepods	(B)	Bivalves
	(C)	Reef fish	(D)	Sea cucumbers
62.	Which of	the following chemicals is not a	regular com	ponent of synthetic seawater?
	(A)	Sodium bicarbonate	(B)	Lithium chloride
	(C)	Potassium sulphate	(D)	Potassium bromide
63.	Codex Ali	imentarius Commission was for	med in 1963	by:
	(A)	WHO	(B)	WTO
	(C)	FAO and WHO	(D)	FAO and WTO
64.	Slipper lo	obster is:		
	(A)	Thenus orientalis	(B)	Panulirus ornatus
	(C)	Panulirus polyphagus	(D)	Panulirus homarus
65.	Caligus le	ongipedis is a :		
5	(A)	Parasitic nematode	(B)	Parasitic copepod
	(C)	Protozoan parasite	(D)	None of the above
66.	The proto	zoan parasite Bonamia infects :		
	(A)	Crustaceans	(B)	Molluscs
	(C)	Lung fish	(D)	Teleosts
67.	Time take	en by <i>Penaeus monodon</i> larvae i	rom egg to re	ach PL-1 stage at ~30°C is :
	(A)	4-5 days	(B)	8-9 days
	(C)	12-13 days	(D)	16-17 days
68.	An organi	zation primarily to empower fis	her women ir	r Kerala is :
	(A)	MATSYAFED	(B)	SAF
	(C)	KAVIL	(D)	SIFFS

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69.	A major epidemic occurring in marine fish is :					
	(A)	Aggregated Transformed Microvilli	(B)	Ich disease		
	(C)	Viral Nervous Necrosis	(D)	Dropsy		
70.	From Mu	mbai to Ratnagiri coast, one of the mos	st com	mon fishing crafts is of :		
	(A)	Masula boat type	(B)	Dinghi type		
	(C)	Satpati type	(D)	Catamarans		
71.	For pelag	ic, scattered fish shoals, one of the mos	t suit	able gear types is :		
	(A)	Trawl net	(B)	Trap		
	(C)	Long lines	(D)	Purse-seine		
72.	Which on	e among the following is not a pelagic f	ish?			
	(A)	Sardinella longiceps	(B)	Rastrelliger brachysoma		
	(C)	Paralichthys olivaceus	(D)	Thunnus thynnus		
73.	Glochidiu	m is an important larval stage of:	1			
	(A)	Shrimps	(B)	Molluscs		
	(C)	Crabs	(D)	Sea cucumbers		
74.	The major	r fishery of Parapenaeopsis stylifera in	India	occurs along:		
	(A)	Kolachel Coast	(B)	Kollam Coast		
	(C)	Karwar Coast	(D)	Malabar Coast		
75.	Which of	the following is not among the Ramsar	sites i	n India?		
	(A)	Periyar Lake	(B)	Ashtamudi Lake		
	(C)	Sasthamkotta Lake	(D)	Wular Lake		
76.	The latest	t FAO ranking of India among the worl	d's top	marine capture fish producers is :		
	(A)	Two	(B)	Three		
	(C)	Five	(D)	Seven		
77.	The highe	est capture fisheries contributing region	of th	e world lies in :		
	(A)	Northwest and Western Central Paci	fic			
	(B)	Northeast Pacific				
	(C)	Southeast Pacific				
1.0	(D)	Indian Ocean				

78.	Headquar	ters of NFDB is located in :			
	(A)	Chennai	(B)	Hyderabad	
	(C)	Kochi	(D)	New Delhi	
79.	Which of	the following fish is not inclu	ded under Sched	dule I of the Indian Wildlife Act (1972	)
	(A)	Epinephelus lanceolatus (G	rouper)		
	(B)	Hippocampus trimaculatus	(Seahorse)		
	(C)	Charcharhinus hemiodon (§	Shark)		
	(D)	Puntius denisonii (Miss Ken	rala)		
80.	Which of	the following kind of fish are	most suited for	stocking in open water cages?	
	(A)	Interspecific hybrids	(B)	All male population	
	(C)	Triploid fish	(D)	None of the above	
81.	Which pa	rt of the Indian constitution i	s contained the	emergency provisions?	
	(A)	XII	(B)	XV	
	(C)	XVII	(D)	XVIII	
82.	When was	s the Environment (Protectio	n) Act come into	force?	
	(A)	1986	(B)	1991	
	(C)	2001	(D)	2003	
83.	Who estal	blished the first printing pres	ss in Kerala in 1	811?	
	(A)	Sir Charles Lawson	(B)	Rev. Benjamin Bailey	
	(C)	Major Dow	(D)	Fr. Muller	
84.	Who intro	oduced 'proverty' (village scho	ool) scheme in T	ravancore in 1871?	
	(A)	Dewan T Madhava Rao	(B)	A. Seshayya Sastri	
	(C)	T. Rama Rao	(D)	K. Krishnaswamy Rao	
85.	Who was	the first Government Inspect	or of Schools in	Malabar and Canara?	
	(A)	Colonel Munroe	(B)	H.V. Connolly	
	(C)	Dr. Herman Gundert	(D)	A.F.W. Dixon	

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Who was	the first president of the Travancore	Devasw	rom Board?
(A)	Kumaranasan	(B)	Mannath Padmanabhan
- (C)	M.P. Manmadhan	(D)	N. Parameswaran Pillai
When was	Poyikayil Yohannan nominated to t	he Sree	Mulam Praja Sabha for the first time?
(A)	1921	(B)	1924
(C)	1931	(D)	1933
		100	the lower castes including the Nadar
(A)	Karthika Tirunal Ramavarma		
(B)	Avittom Thirunal Balarama Varma		
(C)	Visakam Tirunal Ramavarma		
(D)	Moolam Thirunal Rama Varma		
Which am	ong the following organisations was	founded	l in the year 1907?
(A)	Samathwa samajam		
(B)	Sri Narayana Dharma Paripalana	Yogam	
(C)	Sadhujana Paripalana Sangham		
(D)	Vaala Samudaya Parishkarani Sab	ha	
Which inc	cident is associated with the Wagon T	'ragedy'	?
(A)	Paliyam Satyagraha	(B)	Kuttamkulam Satyagraha
(C)	Malabar Rebellion	(D)	Civil Disobedience Movement
Who start	ted the first Malayalam Newspaper 'l	Keralap	atrika' from Malabar in the year 1884?
(A)	Chengulath Kunhirama Menon	(B)	Appu Nedungadi
(C)	Vengayil Kunhiraman Nayanar	(D)	C.V. Raman Pillai
Who wrot	e the famous Malayalam novel Ushr	amekha	ala'?
(A)	Nandanar	(B)	Kakkanadan
(C)	M. Mukundan	(D)	S.K. Pottakkadu
	(A) (C) When was (A) (C) Who amo Climber w (A) (B) (C) (D) Which am (A) (B) (C) (D) Which inc (A) (C) Who start (A) (C) Who wrot (A)	(A) Kumaranasan (C) M.P. Manmadhan  When was Poyikayil Yohannan nominated to to (A) 1921 (C) 1931  Who among the following rulers had announce Climber women have no right to wear upper climber women	When was Poyikayil Yohannan nominated to the Sree  (A) 1921 (B) (C) 1931 (D)  Who among the following rulers had announced that Climber women have no right to wear upper clothes?  (A) Karthika Tirunal Ramavarma (B) Avittom Thirunal Balarama Varma (C) Visakam Tirunal Ramavarma (D) Moolam Thirunal Rama Varma  Which among the following organisations was founded (A) Samathwa samajam (B) Sri Narayana Dharma Paripalana Yogam (C) Sadhujana Paripalana Sangham (D) Vaala Samudaya Parishkarani Sabha  Which incident is associated with the Wagon Tragedy (A) Paliyam Satyagraha (B) (C) Malabar Rebellion (D)  Who started the first Malayalam Newspaper 'Keralap (A) Chengulath Kunhirama Menon (B) (C) Vengayil Kunhiraman Nayanar (D)  Who wrote the famous Malayalam novel 'Ushnamekha (A) Nandanar (B)

93.	Who amo Travanco		fighters is	popularly called as the "Jhansi Rani of
	(A)	Lakshmi Sehgal	(B)	A.V. Kuttimalu Amma
	(C)	Accamma Cheriyan	(D)	Ammu Swaminadhan
94.	What is t	he original name of Brahmanand	la Sivayogi?	
	(A)	Kunhikannan	(B)	Nanu Asan
	(C)	Subbarayan	(D)	Karat Govindankutty Menon
95.		nded Sree Narayana Vidyalaya of the Harijans of Kerala?	at Payyan	nur for the education and all round
	(A)	Mahatma Gandhi	(B)	Sree Narayana Guru
	(C)	Swami Anand Theerthar	(D)	Vagbhadananda
96.	In which Chandu M	The state of the s	ad conferred	d the title 'Rao Bahadur' to Oyyarathu
	(A)	1892	(B)	1895
	(C)	1896	(D)	1897
97.	Which cit	y in Congo is identified as the pe	erfect place f	or HIV to spread Africa and into wider
	(A)	Kisangani	(B)	Kinshasa
	(C)	Lubumbashi	(D)	Katanga
98.	Which pri	ze is popularly known as the No	bel Prize in l	Mathematics?
	(A)	Abel Prize	(B)	Vetlesen Prize
	(C)	Jean Nicod Prize	(D)	Tang Prize
99.	Which tre	e is selected as the state tree of l	Karnataka?	
	(A)	Neem	(B)	Peepal
	(C)	Sandal	(D)	Mango
100.	Which am	ong the following years has been	decided as	the SAARC year for Cultural Heritage?
	(A)	2015-16	(B)	2016-17
	(C)	2017-18	(D)	2018-19