1. The radiant e	energy of su	n is due to		
A) disintegra	ation		B) nuclear fission	
C) nuclear f			D) combustion	
2. Radial proba	ability at the	nucleus is		
A) maximur	n		B) zero	
C) minimum	1		D) none of these	
3. Cadmium in	a nuclear re	eactor acts as		
A) nuclear	fuel		B) moderator	
C) neutron			D) neutron liberato	r to start the chain
4. The ionizati	on potential	of the atom is r	not affected by	
A) electro	neutrality wi	th protons	B) atomic size	
C) nuclear			D) penetration effe	ct
5. Calculated	bond order	of super oxide i	on is	
A) 1.5	B)	1	C) 2.5	D) 2
6. The geome	etrical shape	of the molecul	e sulphur tetra fluorid	e is
A) tetrahe		see saw	C) T shaped	D) square planar
7. The perce	ntage p-cha	racter in the o	rbitals forming P-P to	
A) 25	B)	33	C) 50	D) 75
	onic config	uration of an e	element is 1s2 2s2 2p	o ⁶ 3s ² 3p ⁶ 3d ⁵ 4s ¹ . Thi
A) excited		ground state	C) cationic form	D) anionic form
9 Which of t	he following	element has hi	ighest value of ioniza	tion potential?
A) xenon) hydrogen	C) potassium	D) helium

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10	. The	e first experimental evidence of	de-Broglie's hypothesis came from the
	exp	eriments of	
	A)	Thomson	B) Davison and Germer
	C)	Dirac	D) Heisenberg
11	Hur	nan body is an example of	
	A)	open system	B) closed system
	C)	isolated system	D) macroscopic system
12.	Ifa	refrigerator's door is kept open ther	
		room will be cooled	
	B) i	room will be heated	
	C) 1	may get cooled or heated depending	Upon weather
		o effect in the room	y apart tradition
13.	The	rate of reaction does not depend or	
		pressure	B) temperature
	C) (concentration	D) catalyst
14.	The	efficiency of a heat engine is maxin	num when
		he temperature of source is greater	
		he temperature of sink is greater th	
		he temperature difference of source	
		ne temperature difference of source	
15.		ontaneous change is one in which t	
		n increase in internal energy	B) a lowering of free energy
		lowering of entropy	D) no energy change
16	The	init and value of rate assets a	
10.			that of rate of reaction are same for
	٨) ااا	rst order	B) second order

C) zero order

D) none of these

17. The activation energy of a reaction is z	ero. But the rate cons	stant of reaction
A) increases with increase in temperal	ture	
B) decreases with decrease in temper		
C) decreases with increase in tempera		
D) independent of temperature		
18. If for a first order reaction, the values of A respectively, then at what temperature	A and Ea are 4×10^{13} s will its half life period	ec ⁻¹ and 98.6 KJ/mol d be 10 minutes ?
A) 330K B) 300K	C) 330.95K	D) 311.15K
19. Which among the following compound	I is a state function?	
A) heat	B) internal energy	
C) reversible expansion work	D) irreversible exp	pansion work
20. The pH of a solution is 5.0. Its hydroge times. The solution then will be	en ion concentration i	s decreased hundred
A) more acidic B) basic	C) neutral	D) of the same acidity
21. An S _N 2 reaction at an asymmetric car	rbon of a compound a	always gives
A) an enantiomer of the substrate	B) a product with	opposite optical rotation
C) a mixture of diastereomers	D) single stereois	somers
22. The reaction of propene with HOCI pr	roceeds via the additi	on of
A) H ⁺ in the first step	B) OH in the firs	st step
C) Cl ⁺ in the first step	D) Cl ⁺ and OH ⁻ i	n a single step
23. The two forms of D-glucopyranose of	obtained from the sol	ution of D-glucose are
called A) isomer B) anomer	C) epimer	D) enantiomer
24. Compounds containing chromophori	ic groups are called	
A) chromogens	B) auxochromes	
C) azo compounds	D) dyes	

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25.	. Bal	kelite is a polymer of	
	A)	hexamethylene diamine and adipi	cacid
	B)	phenol and formaldehyde	
	C)	butadiene and styrene	
	D)	butadiene and acrylonitrile	
26.	The	formation of 2-aminopyridine by r wn as	eaction between pyridine and sodamide is
	A)	Diels-Alder reaction	B) Chichibabin reaction
	C)	Mannich reaction	D) Paal-Knorr synthesis
27.	Whi	ch is the strongest base?	
	The second	ammonia B) methyl amine	C) dimethyl amine D) trimethyl amine
28.	Нур	er conjugation involves	
	A) (delocalisation of σ electrons with a	n adjacent π bond
	B) (delocalisation of π electrons with a	in adjacent double bond
	C) (delocalisation of π electrons with I	one pair of electrons of an adjacent atom
	D) 0	lelocalisation of o electrons with le	one pair of electrons of an adjacent atom
29.		cotton is	
	A) s	odium cellulose xanthate	B) cellulose triacetate
		ellulose xanthate	D) cellulose trinitrate
			-) condidate trimitate
		h carbanion is more stable?	
		nethyl carbanion	B) ethyl carbanion
	C) 15	opropyl carbanion	D) tertiary butyl carbanion
31. 7	The s	quare of standard deviation	
	A) m	2) moundoviduon	C) variance D) median
		ent's t test was contributed by	
		illiam Gosset	B) Simeon Denis Poisson
(2) Q	uetelet	D) James Bernoulli
		-6-	

33. In thin layer chromatograph	y the spots of	colourless compo	ounds which are	invisible
to the eye can be detected	by using			
A) chlorine B) iod	line	C) bromine	D) fluorine	
34. The light source in AAS				
A) photoelectric cell		B) halogen lam		
C) tungsten lamp		D) hollow catho	ode lamp	
35. Eutrophication is due to		D)	trionte	
A) heavy metal pollutants	3	B) common nu	liens	
C) carbon dioxide		D) sulphur		
36. A secondary pollutant		D) amaka		
A) fog		B) smoke		
C) smog		D) nitrogen		
37. Temporary hardness is d	ue to			
A) bicarbonates of calciu				
B) carbonates of calciur				
C) chlorides of calcium a				
D) sulphates of calcium	and magnes	ium		
38. The disease caused by i	ron in drinkin	g water		
A) minamata		B) siderosis		
C) itai-itai		D) fluorosis		
39. A green house gas				
A) sulphur dioxide		B) nitrogen		
C) hydrogen		D) carbon did	oxide	
40. A pathogen is				
A) salmonella typhi		B) pseudomo		
C) acetobacter		D) penicilliur	nnotatum	

UOC	NZUID			
4	1. Inc	aptive breeding which weed fishes	s are cultured togethe	r?
		Grass carp, Gourami	B) Tilapia, Cobia	
	C)	Common carp, Grey carp	D) Silver barb, Da	nio
42	2. In w	hich State of India Rampani nets a	are used for fishing?	
		Karnataka B) Kerala		D) Andhra Prades
43	. Wor	ld Fisheries Day is		
	A) 1	November 21 B) July 10	C) April 20	D) June 5
44	. Whi	ch country comes first in both capt	ture and culture fisher	ries?
		ndia B) China	C) Indonesia	D) Taiwan
45	. Phyt	oplankton contains C: N: P in the	ratio of	
	A) 1	00:17:2.4	B) 100:16:2.4	
	C) 7	5:16:2.4	D) 75:17:2.4	
46.	The wate	science dealing with the various	systems of inland w	aters, usually fresh
	A) L	imnology B) Oceanography	C) Hydrology	D) None
47.	Ident	ify the correct order in which the le	entic series evolved.	
	A) P	onds, Bogs, Swamps, Lakes		
	B) La	akes, Ponds, Bogs, Swamps		
	C) S	wamps, Lakes, Ponds, Bogs		
	D) La	akes, Swamps, Ponds, Bogs		
48.	Which	areas in the oceans are rich in fis	sh population ?	
		owelling area	B) Pelagic region	
	C) Be	enthic region	D) None	

49. In captive catfish breeding	, the stocking densit	y is	
A) 2-9 fishes/m ²		fishes/m ²	
C) 2-10 fishes/m ²	D) 2-3	fishes/m ²	
50. What is the optimum rang production of M. Rosenber			
A) Temperature – 12°C-20	0°C, pH-6.0-9.0,	Salinity – 10-1	5%
B) Temperature - 28°C-3	1°C, pH-7.5-8.5,	Salinity – 10-1	2%
C) Temperature - 25°C-2	7°C, pH-7.2-7.6,	Salinity – 30-3	
D) Temperature - 30°C-3	1°C, pH-6.5-7.5,	Salinity – 15-2	20%
51. Name a weedicide used in	aquaculture ponds	to eradicate the	weeds.
A) 2, 4-D		alt solution	
C) Dilute formalin	D) Po	otassium perma	nganate
52. Stocking density of naupli	ii of shrimp in larval	rearing tanks is	
A) 0.1 million/L B) 10			D) 100/L
53. Which among the following	ng is called as aquati	c chicken?	
	ea bass C) Ti		D) Cobia
54. The fish poison Derris po	wder contains is		
		Mercury	D) Arsenic
55. In aquaculture, hatching h	napa has		
A) One rectangular enclo		wo rectangular	enclosures
C) Two square enclosure		wo circular end	losures
56. The fish family which exh	nibits parental care i	S	
A) Cyprinidae		Cichlidae	
C) Cyprinodontidae	D) (Characidae	
A	-9-		

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57	. Cys	st of brine shrim	p hatches out as		
	A)	Mysis	B) Nauplii	C) Zoea	D) Protozoa
58	. Chl	orella culture th	rives well in the sali	nity range of	
	A)	40 ppt	B) 10-20 ppt	C) 1-5 ppt	D) None
59	. Car	rying capacity of	of one ha ponds fed	with protein rich pelle	et is
	A)	About 2,680 kg		B) About 5,000 kg	
	C)	About 5,680 kg		D) 5,580 kg	
60	. Bre	eding traps are	generally used for		
		Gold fish	B) Danios	C) Live bearers	D) Anabantids
61	Sup	plemental diets	in aquaculture are ir	ntended	
	A) .	To ensure that f	ish in high density c	onfined aquaculture	systems do not starve
	B) -				tes, fats, vitamins and
	C) -	To help support	the natural food		
		Vone			
62.			is generally high for		
	A) 5	Smaller fish	B) Larger fish	C) Male fish	D) Female fish
63.	The	serious health	problem in fish fed	artificial feed stored i	in damp conditions
	due	to a toxic metab	polite produced by ce	ertain fungi is	
	A) S	Saprolegniasis		B) Branchiomycosis	
	C) A	Matoxicosis		D) Mycosis	
64.	Limiv	orous fish feed	mainly on		
	A) A	quatic plants		B) Fish larvae	
	C) C	rustacean larva	e	D) Algae and micro-	organisms in mud

65.	Probiotics are com	monly used in sh	nrimp farming for	
	A) Water quality m	anagement	B) Increasing oxyg	en level
	C) Control disease		D) None	
66.	Which monogenea	n trematode cau	ses gill disease in carps	?
	A) Trichodina	B) Dactylogyro	us C) Costia	D) Ichthyobodo
67.	Study of abnormal	embryonic grow	th is	
	A) Teratology	B) Carcinology	C) Teleology	D) Gerontology
68.	Antibiotics are mos	stly prepared fro	m	
	A) Fungi	B) Actinomyce	es C) Cyanobacteria	D) Both A) and B)
69	. Velvet disease is o	caused by		
	A) Protozoan	B) Bacteria	C) Leeches	D) Fungi
70	. Epizootic ulcerativ	e syndrome in f	ish is spread due to	
	A) Saprolegnia		B) Aphanomyces	
	C) Achyla		D) Branchyomyce	es
71	. A non-protein nitro	ogen matter invo	olved in bitter taste of fish	nis
	A) TMAO		B) Glycine	
	C) Hypoxanthine		D) Creatine	
72	2. Biotoxin in seafoo	od is		
	A) Ciguatera	B) Oxitoxin	C) Aflatoxin	D) Zearalenone
7:	3. Super chilling ten	perature is		
	A) -4°C		B) −1°C	
	C) Below-4°C		D) Below-1°C	
A			-11-	

056/2016 74. Neurotoxin in canned fish caused by A) C. botulinum C) C. tetani

RI	C	sno	roa	one
DI	U.	spo	rogi	Elis

D) Vibrio spp.

75. Torrymeter is used for

A) Oxidation

B) Freshness test

C) Nucleotide break down

D) None

76. Fish maws is prepared from

A) Fish paste

B) Fish silage

C) Fish gelatin

D) Fish albumin

77. A form of food poisoning caused by histamine

A) Scombroid poisoning

B) Amnesic poisoning

C) Ciguatera poisoning

D) None

78. Shark oil contains

A) Keratin

B) Squalene

C) Ambergris

D) None

79. The role of micro-organisms in spoilage of foods was first reported by

A) Kircher

B) Robert Hook

C) Pasteur

D) None

80. Maggot infestation is common in

A) Canned fish

B) Frozen fish

C) Chilled fish

D) Salt dried fish

81.	The science which d	eals with the study	abo	out ants is known	as	
		B) Filinology				Filicology
82.	'Sunny Days' is the	Autobiography of				
	A) Sunil Gavaskar		B)	Meri Com		
	C) Kapil Dev		D)	Sania Mirza		
83.	Which day is celebra	ated as National Ma	the	matical Day?		
		B) January 14		March 10	D)	December 22
84.	Which is the first ba	nk of India ?				
	A) Nedungadi Bank		B)	Bank of Hindusta	an	
	C) Bank of Baroda		D)	State Bank of Inc	dia	
85.	The age of retireme	nt of the Judges of t	the	High Court is		
	A) 55 years	B) 60 years	C)	65 years	D)	62 years
86.	The concurrent list of	of Indian Constitutio	n c	ontains		
	A) 25 subjects	B) 55 subjects	C)	47 subjects	D)	70 subjects
87.	Which of the following	ng is not an indirect	t tax	(?		
	A) Landtax		B	Entertainment ta	1X	
	C) Sales tax		D) Corporation tax		
88	. The MERS disease	is first reported in				
	A) Pakistan		В) Saudi Arabia		
	C) Japan		D) India		
89	. The first women wh	o won the 'Rajeev (Gan	dhi Khel Ratna Pu	ıras	scar'
	A) Sania Mirza			P. T. Usha		
	C) Karnam Malles	wari	D) Saina Nehwal		
90	. The National Huma	an Rights Commissi	on i	s established in		
	A) 1998	B) 2001	C	2) 2005	D) 1993
91	. The country which	introduced NOTA for	or th	ne first time		
	A) Spain	B) France	C	c) England	D) USA
Δ			13-			

A

	10			
056/2	016			
92.	Who	s the first Chief Minister of Teleng	ana	State?
	A) G	unasekhara Reddy	B)	Chandra Babu Naidu
	C) C	handra Sekhara Rao	D)	Raja Sekhara Rao
93.	Who	was the founder of 'Atma Vidya Sa	ngh	am'?
	A) A	yyankali	B)	Vagbhadananda
	C) S	ree Narayana Guru	D)	Brahmananda Sivayogi
94.	Which	among the following is known as	the	'Magna Carta' of Travancore
	A) M	alayali Memorial	B)	Nivarthana Agitation
	C) E	zhava Memorial	D)	Pandarappatta Vilambaram
95.	Who	was the founder of the Magazine 'A	Al-Is	slam'?
	A) M	uhammed Adbul Rahiman	B)	Vaikkom Muhammed Bashee
	C) V	akkom Abdul Quadir Maulavi	D)	Ali Musaliyar
96.	Who	was the ruler of Travancore during	the	Channar Agitation ?
	A) U	thram Thirunal	B)	Rani Parvathi Bai
	C) S	wathi Thirunal	D)	Sri Mulam Thirunal
97.	Whoi	introduced Pension Scheme on rel	irer	ment from Govt. service?
	A) Si	r C. P. Ramaswamy Ayyar	B)	Col. Macaulay
	C) C	ol. MonRoe	D)	R. K. Shanmugham Chetti
98.	The fi	rst Governor of Kerala State		
	A) B.	Ramakrishna Rao	B)	Pattam Thanu Pillai
	C) R	D. Banerjee	D)	Dr. A. R. Menon

99. The Electricity Agitation in Cochin was took place in the year

A) 1945

B) 1941

C) 1932

D) 1936

100. Saka Era was founded by

A) Samudra Gupta

B) Kanishka

C) Asoka

D) Chandra Gupta II