# PSC Other Research Assistant -Chemistry - Fisheries Examination Previous Year Question Paper

Exam Name: Other Research Assistant - Chemistry - Fisheries

Date of Test: 22.04.2016

Question Paper Code: 056/2016

Medium of Questions: English



<ol> <li>The radiant energy of s</li> </ol>	iun is due to		
A) disintegration		B) nuclear fission	
C) nuclear fusion		D) combustion	
	a puolous is		
2. Radial probability at the		B) zero	
A) maximum			
C) minimum		D) none of these	
3. Cadmium in a nuclear	reactor acts as		
A) nuclear fuel		B) moderator	
C) neutron absorber		D) neutron liberator	to start the chain
		at affacted by	
4. The ionization potentia			
A) electro neutrality v	vith protons	B) atomic size	
C) nuclear charge		D) penetration effect	
5. Calculated bond orde	r of super oxide io	nis	
	3) 1	C) 2.5	D) 2
	a of the molecule	sulphur tetra fluoride	is
6. The geometrical shap		C) Tshaped	D) square planar
	3) see saw		
The percentage p-ch molecule	naracter in the ort	oitals forming P-P bo	onds in phosphoru
A) 25 E	3) 33	C) 50	D) 75
8. The electronic confi	guration of an el	ement is 1s <sup>2</sup> 2s <sup>2</sup> 2p	63s <sup>2</sup> 3p <sup>6</sup> 3d <sup>5</sup> 4s <sup>1</sup> . Th
represents its	guration of an or		
	B) ground state	C) cationic form	D) anionic form
		boot value of ionizati	on potential?
9. Which of the following			D) bolium
A) xenon	B) hydrogen	C) potassium	D) helium
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### fb.com/pscnet.in 056/www.pscnet.in 10. The first experimental evidence of de-Broglie's hypothesis came from the experiments of A) Thomson B) Davison and Germer C) Dirac D) Heisenberg 11. Human body is an example of A) open system B) closed system C) isolated system D) macroscopic system 12. If a refrigerator's door is kept open then A) room will be cooled B) room will be heated C) may get cooled or heated depending upon weather D) no effect in the room 13. The rate of reaction does not depend on A) pressure B) temperature C) concentration D) catalyst 14. The efficiency of a heat engine is maximum when A) the temperature of source is greater than sink B) the temperature of sink is greater than source C) the temperature difference of source and sink is minimum D) the temperature difference of source and sink is maximum 15. A spontaneous change is one in which the system suffers A) an increase in internal energy B) a lowering of free energy C) a lowering of entropy D) no energy change 16. The unit and value of rate constant and that of rate of reaction are same for

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A) first order

C) zero order

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B) second order

D) none of these

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17. The activation energy of a reaction is	zero. But the rate con	nstant of reaction
A) increases with increase in temper	ature	
B) decreases with decrease in temperature		
C) decreases with increase in temper	erature	
D) independent of temperature		
18. If for a first order reaction, the values of respectively, then at what temperature	f A and Ea are $4 \times 10^{15}$ re will its half life periods.	sec <sup>-1</sup> and 98.6 KJ/mol od be 10 minutes ?
A) 330K B) 300K	C) 330.95K	D) 311.15K
19. Which among the following compour	nd is a state function '	
A) heat	B) internal energ	ly
C) reversible expansion work	D) irreversible e	xpansion work
20. The pH of a solution is 5.0. Its hydro	gen ion concentration	is decreased hundred
times. The solution then will be  A) more acidic B) basic	C) neutral	D) of the same acidity
21. An S <sub>N</sub> 2 reaction at an asymmetric of	arbon of a compound	l always gives
A) an enantiomer of the substrate	b) a product wit	ii opposite epine
C) a mixture of diastereomers	D) single stereo	isomers
22. The reaction of propene with HOCI	proceeds via the add	ition of
	B) OH in the fi	irst step
A) H <sup>+</sup> in the first step     C) Cl <sup>+</sup> in the first step		in a single step
23. The two forms of D-glucopyranose	obtained from the se	olution of D-glucose are
called A) isomer B) anomer	C) epimer	D) enantiomer
	ria groups are called	
24. Compounds containing chromopho	B) auxochrom	es
A) chromogens	D) dyes	
C) azo compounds	D) dyes	

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#### fb.com/pscnet.in 056/www.pscnet.in 25. Bakelite is a polymer of A) hexamethylene diamine and adipic acid B) phenol and formaldehyde C) butadiene and styrene D) butadiene and acrylonitrile 26. The formation of 2-aminopyridine by reaction between pyridine and sodamide is known as A) Diels-Alder reaction B) Chichibabin reaction. C) Mannich reaction D) Paal-Knorr synthesis 27. Which is the strongest base? A) ammonia B) methyl amine C) dimethyl amine D) trimethyl amine 28. Hyper conjugation involves A) delocalisation of $\sigma$ electrons with an adjacent $\pi$ bond B) delocalisation of $\pi$ electrons with an adjacent double bond C) delocalisation of $\pi$ electrons with lone pair of electrons of an adjacent atom D) delocalisation of σ electrons with lone pair of electrons of an adjacent atom 29. Gun cotton is A) sodium cellulose xanthate B) cellulose triacetate C) cellulose xanthate D) cellulose trinitrate 30. Which carbanion is more stable? A) methyl carbanion B) ethyl carbanion C) isopropyl carbanion D) tertiary butyl carbanion 31. The square of standard deviation A) mode B) mean deviation C) variance D) median 32. Student's t test was contributed by

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B) Simeon Denis Poisson

D) James Bernoulli

A) William Gosset

C) Quetelet

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	the seed of colourless compounds which are invisi
<ol> <li>In thin layer chromatography to the eye can be detected</li> </ol>	y the spots of colourless compounds which are invisi
	D) fluoring
A) chlorine B) lod	
34. The light source in AAS	
A) photoelectric cell	B) halogen lamp
C) tungsten lamp	D) hollow cathode lamp
35. Eutrophication is due to	
A) heavy metal pollutants	B) common nutrients
C) carbon dioxide	D) sulphur
36. A secondary pollutant	B) smoke
A) fog	D) nitrogen
C) smog	S) time got
37. Temporary hardness is di	ue to
A) bicarbonates of calciu	
B) carbonates of calcium	
C) chlorides of calcium a	
D) sulphates of calcium	and magnesium
38. The disease caused by it	ron in drinking water
A) minamata	B) siderosis
C) itai-itai	D) fluorosis
39. A green house gas	B) nitrogen
A) sulphur dioxide     A) budrogen	D) carbon dioxide
C) hydrogen	
40. A pathogen is	D) pegudomonas
A) salmonella typhi	B) pseudomonas D) penicillium notatum
C) acetobacter	D) periolitum motata.

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41	. In c	aptive breeding which weed fishes are cultured together?		
		Grass carp, Gourami	B) Tilapia, Cobia	
	C)	Common carp, Grey carp	D) Silver barb, Da	nio
42.	In w	hich State of India Rampani nets a	are used for fishing?	
	102020	Karnataka B) Kerala	C) Tamil Nadu	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	ure and culture fisher	ries?
	A) I	ndia B) China	C) Indonesia	D) Taiwan
45.	Phyt	oplankton contains C : N : P in the	ratio of	
		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.	ldent	ify the correct order in which the le	entic series evolved.	
	A) P	onds, Bogs, Swamps, Lakes		
		akes, Ponds, Bogs, Swamps		
		wamps, Lakes, Ponds, Bogs		
	D) La	akes, Swamps, Ponds, Bogs		
48. \	Which	areas in the oceans are rich in fis	h population ?	
		owelling area	B) Pelagic region	
(	C) Be	enthic region	D) None	

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49. In captive catfish breedi	ing, the stocking density	y is	
A) 2-9 fishes/m <sup>2</sup>		s fishes/m <sup>2</sup>	
C) 2-10 fishes/m <sup>2</sup>	D) 2-3	3 fishes/m <sup>2</sup>	
50. What is the optimum r		parameters for s	successful seed
A) Temperature - 12°C	C-20°C, pH-6.0-9.0,	Salinity - 10-15	%
B) Temperature - 28°C	C-31°C, pH - 7.5-8.5,	Salinity - 10-12	%
C) Temperature - 25°C	C-27°C, pH-7.2-7.6,	Salinity - 30-35	%
D) Temperature - 30°C	C-31°C, pH-6.5-7.5,	Salinity - 15-20	%
51. Name a weedicide use	d in aquaculture ponds	to eradicate the w	reeds.
A) 2, 4-D		alt solution	
C) Dilute formalin	D) Po	otassium permang	ganate
	- Ill of abrigan in langal	rearing tanks is	
52. Stocking density of nat			100/L
A) 0.1 million/L B)	10,000/L C) 1,	000/L D)	TOOPE
53. Which among the follo	wing is called as aquati	c chicken?	
A) Catla B)	Sea bass C) Ti	ilapia D)	Cobia
54. The fish poison Derris	powder contains is		
		Mercury D	) Arsenic
55. In aquaculture, hatchir	The state of the s	atongulor o	aclocures
A) One rectangular el		wo rectangular er	
C) Two square enclos	sures D) I	wo circular enclo	Sures
56. The fish family which	exhibits parental care i	S	
A) Cyprinidae		Cichlidae	
C) Cyprinodontidae	D) (	Characidae	

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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 sal	inity	range of	
		40 ppt	B) 10-20 ppt		1-5 ppt	D) None
59	. Car	rying capacity o	of one ha ponds fed	with	protein rich polle	at in
		About 2,680 kg	The first points for	100	About 5,000 kg	50 15
		About 5,680 kg			5,580 kg	
60	Bro	ading trans are	annerally was differen			
00.			generally used for			
	^)	Gold fish	B) Danios	C)	Live bearers	D) Anabantids
61.	Sup	plemental diets	in aquaculture are in	nten	ded	
	A) .	To ensure that fi	ish in high density o	onfi	ned aquaculture	systems do not star
	B) To supply all the ingredients such as protein, carbohydrates, fats, vitamins arminerals					
	C) -	Γο help support	the natural food			
	D) 1	Vone				
62.	Prot	ein requirement	is generally high fo	r		
			B) Larger fish		Male fish	D) Female fish
63.	The	serious health p	problem in fish fed	artifi	cial feed stored	in damp conditions
	due	to a toxic metab	olite produced by c	ertai	n fungi is	
	A) S	Saprolegniasis		B)	Branchiomycosis	
	C) A	flatoxicosis		D)	Mycosis	
64.	Limi	orous fish feed	mainly on			
	A) A	quatic plants		B) I	Fish larvae	
	C) C	rustacean larva	е	D) /	Algae and micro-	organisms in mud

5. Probiotics are commonly used in shrimp farming for					
A) Water quality n	A) Water quality management		B) Increasing oxygen level		
C) Control diseas	C) Control disease		None		
66. Which monogenea	an trematode causes	gillo	lisease in carps '	?	
A) Trichodina	B) Dactylogyrus		Costia	D) Ichthyobodo	
67. Study of abnorma	l embryonic growth is	3			
A) Teratology	B) Carcinology	C)	Teleology	D) Gerontology	
68. Antibiotics are mo	stly prepared from				
A) Fungi	B) Actinomyces	C)	Cyanobacteria	D) Both A) and B)	
69. Velvet disease is	caused by				
A) Protozoan	B) Bacteria	C)	Leeches	D) Fungi	
70. Epizootic ulcerati	ve syndrome in fish i	s spr	ead due to		
A) Saprolegnia		B)	Aphanomyces		
C) Achyla		D)	Branchyomyce	S	
71. A non-protein niti	rogen matter involve	d in b	itter taste of fish	is	
A) TMAO		В	Glycine		
C) Hypoxanthine		D	Creatine		
72. Biotoxin in seafo	od is				
A) Ciguatera	B) Oxitoxin	C	) Aflatoxin	D) Zearalenone	
73. Super chilling ter	mperature is				
A) -4°C		В	) −1°C		
C) Below-4°C		D	) Below-1°C		
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80. Maggot infestation is common in

A) Canned fish

B) Frozen fish

C) Chilled fish

D) Salt dried fish

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#### fb.com/pscnet.in<sub>6/2016</sub> www.pscnet.in 81. The science which deals with the study about ants is known as C) Formicology D) Filicology B) Filinology A) Dipterology 82. 'Sunny Days' is the Autobiography of B) Meri Com A) Sunil Gavaskar D) Sania Mirza C) Kapil Dev 83. Which day is celebrated as National Mathematical Day? D) December 22 B) January 14 C) March 10 A) April 22 84. Which is the first bank of India? B) Bank of Hindustan A) Nedungadi Bank D) State Bank of India C) Bank of Baroda 85. The age of retirement of the Judges of the High Court is C) 65 years D) 62 years B) 60 years A) 55 years 86. The concurrent list of Indian Constitution contains D) 70 subjects C) 47 subjects A) 25 subjects B) 55 subjects 87. Which of the following is not an indirect tax? B) Entertainment tax A) Landtax D) Corporation tax C) Sales tax 88. The MERS disease is first reported in B) Saudi Arabia A) Pakistan D) India C) Japan

89. The first women who won the 'Rajeev Gandhi Khel Ratna Purascar'

A) Sania Mirza

B) P. T. Usha

C) Karnam Malleswari

D) Saina Nehwal

90. The National Human Rights Commission is established in

A) 1998

B) 2001

C) 2005

D) 1993

91. The country which introduced NOTA for the first time

A) Spain

B) France

C) England

D) USA

A

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

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