1.	The radius of the Na ⁺ is 95 pm anc Cl ⁻ ion is A) 4 B) 5	; 181 pm. () ()	Predict the co-ordination number of Na+.C) 6D) unpredictable
2.	Which of the following adopts normal spinal A) CsCl B) FeO	structure () ()	? C) $MgAl_2O_4$ () D) CaF_2 ()
3.	A binary solution of ethanol and n-heptane isA) Ideal solutionB) Non-ideal solution with-ve deviation	s an exar () ()	nple of C) Non-ideal solution with +ve deviation () D) Unpredictable behavior ()
4.	Which of the following carbohydrate is an co A) Starch B) Maltose	onstituent () ()	of plant cell ? C) Cellulose () D) Ucrose ()
5.	For an elementary process 2X + Y A) 2 B) 3	()	 >Z + W. The moleculerity is C) 1 () D) Unpredictable ()
6.	The electropositive sol. among the following A) Prussian Blue B) Silicic Acid	is () ()	C) Gold () D) Tanic Acid ()
7.	Most abundant element in earth crust in tern A) Oxygen B) Aluminium	ns of nun () ()	nber of atoms per 100 atoms is C) Silicon () D) Hydrogen ()
8.	In the electrolytic method for the preparation cathode, the electrolytic bath is a mixture of A) KCl B) Al_2O_3	n of boror fused bo () ()	using carbon crucible as an anode and iron as ron trioxide, magnesium fluoride and C) KF () D) MgO ()
9.	Which metal has the highest melting point ? A) Pt B) W	()	C) Pd () D) Au ()
10.	How many ions are produced from [Co(NH ₃) A) 6 B) 4) ₆]Cl₃ in s () ()	olution ? C) 3 () D) 2 ()
11.	Which of the following has highest chlorine of A) Pyrene B) Chloral	content? () ()	C) DDT () D) Gammaxane ()
12.	Which of the following compound contains in A) O-Nitrophenol B) Ethanoic Acid	ntramoleo () ()	cular H-bonds ? C) Phenol () D) Resorcinol ()
13.	When molecule of acetaldehyde condenses of dilute alkali, the reaction is called A) Perkin's Condensation B) Aldol Condensation	with ano () ()	ther dissimilar molecule in the presence D) Cross aldol condensation () C) Benzoin Condensation ()
14.	In aqueous solutions, the basic strength of a A) $CH_3NH_2 > (CH_3)_2NH > (CH_3)_3N$ B) $(CH_3)_2NH > (CH_3)_3N > ch_3NH_2$	amines de () ()	ecreases in the orderC) $(CH_3)_3N > (CH_3)_2NH > ch_3NH_2$ D) $(CH_3)_2NH > CH_3NH_2 > (CH_3)_3N$
15.	Luminal, a barbiturate drug is used as a/an A) antihistamine B) Antiseptic	()	C) Sedative () D) Antimalarial ()

16.	Let A = {x \in R : x \geq 1/2 } and B = {x \in R : x \geq 3 the solution set of the equation f (x) =f ⁻¹ (x) is A) 1 B) 2	3/4 }. If f : s ()	A C)	> B is defined as f (x) = x^2 -x+1, then 1/2	()
	D) Z	()	D)	Tione of these	()
17.	If $x + y + z = xyz$, then $\tan^{-1} x + \tan^{-1} y + \tan^{-1} A$) 0 B) 1	z equals () ()	C) D)	x ² none of these	(())
18.	If AB = A and BA = B, where A and B are sq A) $B^2=B$ and $A^2=A$ B) $B^2\#$ B and $A^2=A$	uare mat () ()	rice: C) D)	s, then A²# A, B²=B A²# A, B²#B	(())
19.	First Woman UN General Assembly Chief wa A) Vijaya Lakshmi Pandit B) Sarojini Naydu	as () ()	C) D)	Nita Desai Lakshmi Bai	(())
20.	If $f(x) = x^3 \sin x$, then A) f is derivable at $x = 0$ B) f'(x) exists for all x, but f''(x) does not exist	() st()	C) D)	f is continuous but not derivable at $x = 0$ f'(x) exists for all x	(())
21.	Which state first made Hindi as official langu A) Jharkhand B) Haryana	age ? () ()	C) D)	Bihar UP	(()
22.	The area of the figure bounded by the curves A) 2/3 B) 8/3	s y² = 2x () ()	+ 1 C) D)	and x - y - 1 = 0 is 4/3 16/3	(())
23.	The differential equation which represents the A) $y' = cy$ B) $xlogy = yy'$	ne family () ()	of pl C) D)	ane curves y = exp(cx) is xy' - logy = 0 ylogy = xy'	(()
24.	The differential equation of all the circles of r A) 2 B) 4	radius a is () ()	s of C) D)	the order 3 none of these	(())
25.	The degree of the differential equation of all A) 1 B) 3	the curve () ()	es ha C) D)	aving normal of the constant length c, is 4 none of these	(()
26.	The degree of the differential equation corre- where a is an arbitary constant is A) 1 B) 3	sponding () ()	to t C) D)	he family of curves y = a(x + a) ² , 2 none of these	())
27.	A contemporary of Charles Darwin who cam A) Jean Baptist Lamarck B) Alfred Russel Wallace	e to the s () ()	sam B) D)	e conclusion in the matter of organic evolu Thomas Fluxley Franklin Benjamin	tio ((n was –))
28.	What is the probability that for S's come cont A) 1/165 B) 4/165	secutivel <u>y</u> () ()	y in C) D)	the word MISSISSIPPI' ? 2/165 none of these	(())
29.	If x=3 ^{n,} where n is a positive integral value, th A) 1/2 B) 1/4	hen what () ()	is tł C) D)	ne probability that x will have 3 at unit's pla 1/3 1/5	ce ((?))
30.	Two non-negative integers x and y are chose $x^2 + y^2$ divisible by 10, is A) 9/25	en at rand	dom C)	with replacement. The probability that 9/50	()
	B) 3/50	()	D)	6/25	()

31.	What does an electric charge in acceleratedA) A magnetic Field onlyB) Electromagnetic radiation only	motion p () ()	roduce ? C) An Electric Field Only D) All of the Above	())
32.	Maximum number of ministers in the govern A) 15% B) 10%	ment doe () ()	es not exceed the% of Lok Sabha Memb C) 12% D) 8%	oers (S))
33.	The relative density of the electrolyte of acid A) 1.8 B) 1.28	accumul () ()	ator should not be allowed to fall below C) 1.5 D) 1.18	())
34.	If the current is doubled, the deflection is als A) A Tangent Galvanometre B) a moving coil galvanometer	o double () ()	d in C) both a & b D) none of these	())
35.	Unit of reduction factor is A) ampere B) tesla	()	C) ohms D) weber	())
36.	The equivalent quantity of mass in electricity A) current B) charge	ris () ()	C) potential D) self inductance	())
37.	For long distance transmission, the ac is ster A) faster B) not damped	pped up () ()	because transmission at high voltage is C) economical D) not dangerous	())
38.	Who is IMF chief? A) Christine Lagarde C) Mary Lagarde	()	B) Christine LapazD) Christine mary	())
39.	Which of the following are conserved when t A) amplitude B) intensity	he light v () ()	vave interfere? C) phase D) none of these	())
40.	Which one of the following is not an electron A) Radio Wave B) Ultra violet radiation	nagnetic () ()	wave ? C) X Ray D) Ultra Sound Waves	(())
41.	The frequency of the first line of the Lyman s corresponding line for the singly ionised helio A) v B) 2v	series in t um atom () ()	he hydrogen atom is v. What will be the frequ ? C) 4v D) 8v	neı))	cy of the))
42.	Suppose the mass of electron decreases by A) Remains Unchanged B) Reduced to 75% of its original value	25%. Ho () ()	w will it affect the Rydberg constant ? C) Becomes one fourth D) It is doubled	())
43.	What is the number of neutrons in $_{17}C^{37}$? A) 17 B) 20	()	C) 37 D) 54	())
44.	A full wave rectifier is fed 60 Hz a.c. supply. A) 50 Hz B) 100Hz	The rippl () ()	e frequency will be C) 60Hz D) 120Hz	())
45.	In which of the following cases the band wid A) DSB B) FM	th as wel () ()	l as modulation increases ? C) SSB D) AM	())

46	Cell secretions are processed and packed u A) Mitochondria C) Ribosome	ip by () ()	B) Golgi apparatus D) Nucleus	(())
47	 1 KHZ signal is used to test which stage? A) Mixer stage C) Detector stage 	()	B) 1 F stage D) Audio stage	())
48	A) Neurology C) Nephrology	()	B) Cardiology D) Archaeology	())
49	Who will invited as chief guest on the repub A) Barack obama C) Sheikh Hasina	lic day ce () ()	lebrations- 26 january 2017 . B) Sheikh md. Bin zayed al nahyan D) Francois Hollande	())
50	Transition ions absorb light in – A) visible region C) ultraviolet region	() ()	B) infrared regionC) microwave region	())
51	Who Is the founder of Flipkart A) Vijay shekhar sharma C) Binny bansal	()	B) Sachin bansal D) Rohit bansal	())
52	In which year Albert Einstein born? A) 1949 C) 1869	()	B) 1879 D) 1954	(())
53	Author of " Half Girlfriend " book A) Chetan bhagat C) Robin sharma	()	B) Shiv khera D) Anoop sony	())
54	When was world's first hard disk launched A) 1956 C) 1957	()	B) 1953 D) 1958	())
55	Who becomes first indian to win 2 paralymp A) Ravi Jarpula C) Jitendra Jarpula	ics Golds () ()	? B) Devendra Jhajharia D) Mahendra Jhajharia	())
56	The seventh largest country in the world (in A) canada C) china	view of a () ()	area) B) Brazil D) none of these	(()
57	'The Narmada Bachao Andolan' was initiate A) Medha Patekar C) Sushmita Das	ed by - () ()	B) Yogendra Yadav D) Chintan Bhatt	())
58	The main constituent of Gobar Gas A) Methane C) Hydrogen	()	B) Hellium D) Carbon	())
59	The split rings in motion are called (a) Armature (c) Rotor	()	(b) Commutator (d) Core	())
60	With the increase in atomic number in perio (a) Metallic character decreases (c) Chemical reactivity decreases	d () ()	(b) Metallic character increases(d) Chemical reactivity increases	())