### Practice Test - 1

1.	"Killing of one's broth			
	A. fratricide	B. homicide	C. patricide	D. genocide
2.	If you add 2+2, it 4			
	A. will be	B. will become	C. becomes	D. was
3.	Only the blood-staine			ation.
	A. of	B. to	C. at	D. on
4.	Shyam has no control	his temper.		
	A. at	B. after	C. in	D. over
5.	Mr. John is Europe	an teacher.		
	A. an	B. a	C. the	D. no article
6.	The man is LLB.			
	A. a	B. an	C. the	D. no article
7.	He plays football v	ery well.		
	A. a	B. an	C. the	D. no article
8.	Stop that noise,?			
	A. will you	B. won't you	C. can't you	D. don't you
9.	The antonym of 'here	dity' is		
	A. environment	B. gene	C. inheredity	D. none
10.	The synonym of 'post	pone' is		
	A. defer	B. stop	C. wait	D. none
11.	The indirect form of <i>I</i>	le said, "Let's leave	the case in the static	on." is
	A. He suggested leave	ing the case at the	station.	
	B. He said that they h	~		
	C. He said that they le	eft the case in the s	station.	
	D. None of the above			
12.	The passive form of "	People said that h	e was jealous of he	er." is
	A. He was jealous of l	•	,	
	B. He was said to be j			
	C. People said he had		er.	
	D. None of the above	,		
13.	The horse and carriag	e readv.		
	A. is	B. am	C. are	D. none
14.	Do not copy the answ	er		
	A. word by word		B. word to word	
	C. word for word		D. none of these	
	C. Word for Word			
15.		hief.	Difficulty of these	
15.	He was no than a t	hief. B. others	C. an other	D. the other
15.	He was no than a t			D. the other

Read the following passage and answer the questions given.

The greatest enemy of mankind, as people have discovered, is not science, but war. Science merely reflects the prevailing social forces. It is found that, when there is peace, science is constructive; when there is war, science is perverted to destructive ends. The weapons which science gives us do not necessarily cause war, they make war increasingly terrible. Till now, it has brought us to the doorstep to doom. Our main problem, therefore, is not to curb science, but to stop war to substitute law for force, and international government for anarchy in the relations of one nation with another. That is a job in which everybody must participate, including scientists. But the Bombing of Hiroshima suddenly woke us up to the fact that we have very little time. The hour is late and our work has scarcely begun. Now we are face to face with an urgent question "Can education and tolerance, understand and creative intelligence run fast enough to keep us abreast with our own mounting capacity to destroy?" that is the question which we shall have to answer one way or the other in this generation. Science must help us in arriving at the answers, but the main decision lies within ourselves.

#### **Ouestions:**

- 16. According to the writer, the real enemy of mankind is not science but war, because
  - A. Science merely invents the weapons with which war is fought
  - B. Science during war become destructive
  - C. The weapons that science invents necessarily lead to war.
  - D. The weapons invented by science do not cause war, though these make it more destructive.
- 17. According to the writer, the main problem we are faced with is to ....
  - A. Stop science from reflecting social forces.
  - B. Stop scientific activities everywhere.
  - C. Abolish war.
  - D. Prevent scientists from participating in destructive activities.
- 18. The expression "bring to the doorstep of doom" means ....
  - A. Carry close to death and destruction
  - B. Lead to the threshold of new destiny
  - C. Indulge in ruinous activity
  - D. Introduces to an unpredictable destiny
- 19. Which of the following is opposite in meaning to the word 'anarchy'?
  - A. Law and order
- B. Political dominance
- C. Economic prosperity
- D. Communal harmony
- 20. Which of the following would be the most suitable title for the passage?
  - A. Science and social forces
  - B. Science and horrors of war
  - C. Science and the new generation
  - D. Science and world peace

21.	In a jar, 1/2 of the the marbles are no			1/5 are blue. What traction of	)İ
	A. 19/20	B. 1/20	C. 15/20	D. 1/10	
22	What is 10% of 20	•	C. 15/20	D. 1/10	
<i>ZZ</i> .	A. 0.006%	B. 0.6%	C. 6%	D. 60%	
23			is the arithmetic m		
23.	A. 11/3	B. 11/2	C. 11	D. 22/3	
24	•	•	c. 11 circle. What is the		
24.	•		C. $\pi$		
25	A. $\pi/4$	B. π/2		D. 2 π	
25.			_	its is 14. How many minute	38
		_	be 20 for the first t		
26	A. 42	B. 132	C. 192	D. 251	
26.	The value of $9^{1/3}$ .			D. M. (4)	
	A. 9	B. 1`	C. 3	D. None of these	
27.	If $\tan \alpha = 1/2$ , $\tan \beta =$		=		
	Α. π/2	B. π/3	C. π/4	D. π/6	
28.			+4y =6 and 6x +8y =		
	A. 3/2	B. 6	C. 3/10	D. 7/9	
29.	The acute angle b				
	A. $\pi/2$	B. $\pi/4$	C. π/6	D. None of the above	
30.	Which of the folloother	owing is the valu	ue of P, if one root	of $x^2 - Px + 1 = 0$ is square of	ΣÍ
	A1	B2	C. 1, -2	D. 2, -1	
31.	The point of conc	urrency of three i	nternal angles bise	ctors of a triangle is called	
	A. Orthocenter	•	B. Circumcer	ntre	
	C. Incentre		D. Excentre		
32.	From a set of nu	mber cards num	bered from 1 to 20	), a card is drawn randomly	у.
			rd exactly divisible	-	
	A. 11/20	B. 1/2	C. 9/20	D. 1/20	
33.	The median of the	e data: 8, 12,35,40	,15,10,11,14 is		
	A. 4.5	B. 12	C. 13	D. 14	
34.	If A is any square				
	A. A diagonal ma		B. A symmet	ntric matrix	
	C. A skew-symme		D. Identity n		
35.			•	hen the value of K is	
	A. 1	B. 2	C. 3	D. 0	
36.		and $\overrightarrow{b} = 2\overrightarrow{1} - \overrightarrow{j}$	→ k are any two ve	ctors, then the angle betwee	r
	$\overrightarrow{a}$ and $\overrightarrow{b}$ is	ŕ	-	-	
	A. $\frac{\pi}{6}$	B. $\frac{\pi}{3}$	C. 0	D. $\frac{\pi}{2}$	
222		KI	ST COLLEGE & S	SS	

37.	If SinA, SinB, SinC ar	e in A.P. then a,b,c	are in	
	A. A.P.	B. G.P.	C. H.P.	D. None
38.	The length of the per	pendicular from o	rigin on the line jo	oining (a,b) and (b,a) is
	A. $\frac{a+b}{2}$	a+b	C. $\frac{a-b}{\sqrt{2}}$	D. $\frac{a-b}{2}$
	A. 2	B. $\frac{a+b}{\sqrt{2}}$	$\sqrt{2}$	D. 2
39.	How many integers a	re solutions of the	inequality $3 x  +$	2 < 17?
	A. 0	B. 8	C. 9	D. 5
40.	30 men work 10 hou	rs a day to compl	ete a piece of wor	k in 25 days. How many
	men will be required	to complete a piec	e of work twice as	great in 15 days working
	8 hours a day?			
	A. 130	B. 125	C. 12.5	D. 75
41.	In a monohybrid cros	ss, the two parent	al genotypes are A	AA and aa. The genotype
	-	-		get F2 generation, what
	percentage of the F <sub>2</sub> g	generation will hav	e the dominant pl	nenotype?
	A.100%	B. 75%	C. 50%	D. 25%
42.		the process by wh	nich the cytoplasm	of a cell divides to form
	two daughter cells?			
	A. Cytokinesis	B. Interphase	•	•
43.	In a plain community		-	ss would be
	A. Foxes	B. Hawks	C. Grasses	D. Beetles
44.	-			parts of plants is called
	transpiration. The ope			•
	A. Stomatal cells	B. Guard cells	•	D. Phloem cells
45.		~ .		not characterized by the
	presence of reticulate			
	A. Sunflower	B. Tomato	C. Maize	D. Cuscuta
46.		_	nisms called it one	e gets advantage from the
	other without harmin	ig it?	D C 11	
	A. Mutualism		B. Commensalism	n
4.7	C. Predation		D. Parasitism	11 10
47.	What is the branch of		-	=
40	A. Phycology	, 0,	C. Ornithology	, 0,
48.	Which of the following	-		
40	A. 10	B. 23	C. 46	D. 92
49.	•	parencnyma, basi	nibers, and	are the elements of
	phloem.	D. Track aids	C Wood fibers	D. Commonion coll-
	A. Vessels	B. Tracheids	C. Wood libers	D. Companion cells

50. A student studied two different groups of cells and made the following observations:

Trait	Cell I	Cell II
Cell wall	Present	Present
Ribosomes	Present	Present
Nucleus	Absent	Present
Ability to photosynthesize	Present	Present
Cell respiration	Present	Present

Which of the following conclusions is best supported by these observations?

- A. Cell I is more complex in its organization than cell II
- B. Cell I is a prokaryote
- C. Cell II does not have a nucleus
- D. The ancestors of cell II appeared earlier in the fossil record than the ancestors of cell II
- 51. A part of digestive system that is not in contact with food is the
  - A. Small intestine
- B. Stomach
- C. Large intestine b D. Live
- 52. Although the Duckbilled Platypus lays eggs, it is classified as
  - A. Amphibia
- B. Reptilia
- C. Aves
- D. Mammal
- 53. Epithelial cells may have all of the following functions except
  - A. Protection
- B. Absorption
- C. Contraction D. Secretion
  - ...
- 54. One of the characteristics of all living things is that they
  - A. Require oxygen for respiration
  - B. Originate from pre-existing life
  - C. Carry on heterotrophic nutrition
  - D. Carry on autotrophic nutrition
- 55. All of the following are examples of a reflex except
  - A. Sneezing
- B. Blinking
- C. Thinking
- D. Knee Jerking
- 56. Two wastes resulting from the oxidation of food are
  - A. Oxygen & water

- B. Carbon dioxide & water
- C. Oxygen & Carbon dioxide
- D. Oxygen & ATP
- 57. Which of the following is not an attribute of enzyme?
  - A. They are specific in nature
  - B. They are proteinous in nature
  - C They are used up in the reaction
  - D. They speed up rate of biochemical reactions
- 58. Short sightedness of myopic vision is corrected by wearing
  - A. Convex lens

B. Concave lens

C. Concave mirror

D. Convex mirror

- 59. Hydra is
  - A. Asymmetrical

- B. Radially Symmetrical
- C. Spherically Symmetrical
- D. Bilaterally Symmetrical

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			•	perature will change to
	A. 15°C	B. 5°C	C. 10°C	D. No change
61.	A mixture of sand,	common salt and c	amphor can be se	eparated by
	A. Filtration		B. Evaporation	=
	C. Sublimation		D. Filtration fo	ollowed by Sublimation
62.	The atomic number	ers of two elements		and 15 respectively. What is
		la of the compound		,
	A. A <sub>3</sub> B <sub>2</sub>	B. A <sub>2</sub> B <sub>3</sub>	C. AB <sub>2</sub>	D. AB
63.	Which of the follow	ving is natural poly	mer?	
	A. Starch	B. Plastic	C. Protein	D. Both A & C
64.	Which of the follow	ving is covalent soli	id?	
	A. copper	B. Diamond	C. Sodium Ch	loride D. Methane
65.	Divide a piece of	chalk into half. Div	ride it further an	d keep on dividing it many
	times. The smalles	t piece of chalk that	can be obtained	by this division is
	A. An atom	B. A molecule	C. A particle	D. A crystal
66.	The compound Ag	Cl is composed of		
	A. AgCl molecule			
	B. Atoms of silver	and chlorine		
	C. Polymerized Ag	Cl molecules		
	D. Ag+ and Cl-			
67.	The compound wh	ich gives chlorine li	ike smell is	
	A. CaOCl <sub>2</sub>	B. CHCl <sub>2</sub>	C. CaCl <sub>2</sub>	D. both b and c
68.	Which of the follow	ving is characteristi	c of both mixture	s and compounds?
	A. Energy is absorb	oed when they are r	nade	
	B. Their properties	are same as those of	of their componer	nts
	C. They contain co	mponents in fixed r	ratios	
	D. Their mass equa	als the sum of mass	of their compone	ents
69.	Which of the follow	ving is not a solutio	n?	
	A. Smoke	B. Air	C. Brass	D. A gold ring
70.	In the nucleus of 2	$^{\circ}$ Ca $^{40}$ , there are		
	A. 40 protons and	20 electrons		
	B. 20 protons and 4	10 electrons		
	C. 20 protons and 2			
	D. 20 protons and			
71.	The reverse proces			
	A. Hydrolysis reac		B. Rearrangen	nent reaction
	C. Precipitation rea		D. Red ox read	etion
72.	The general formu	ıla of cycloalkane is		
	A. C <sub>n</sub> H <sub>2n+2</sub>	B. C <sub>n</sub> H <sub>2n</sub>	C. C <sub>n</sub> H <sub>2n-2</sub>	D. C <sub>n</sub> H <sub>2n-1</sub>
73.	The absolute mass	of one atom of hyd:	rogen is	
	A. 1.008 amu	B. 1.008gm	C.1 amu	D. 1.66x10 <sup>-24</sup> gm

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	Which of the follo		•	•
	A. CO <sub>2</sub>	B. CO	C. Na <sub>2</sub> CO <sub>3</sub>	D. CO(NH <sub>2</sub> ) <sub>2</sub>
75.	Which of the follo	wing pairs of eler	nents are chemically	
	A. Hf and Zr	B. Na and Al	-	D. B and Be
76.	Which of the follo	owing have the sa		
	A. Energy and for		B. Work done	and energy
	C. Momentum an		D. Acceleration	
77.	Which of the follo			•
	A. Plane angle	· ·	B. magnetic fie	eld
	C. Momentum		D. Current	
78.	Which of the follo	owing relation is t	rue?	
	A. $1N = 10^{13}$ dynes		B. 1 Joule = 10 <sup>5</sup>	<sup>5</sup> ergs
	C. $1N = 10^5 \text{ dynes}$		D. 1 Joule = 10	
79.		mass 1Kg and m		ity of 2ms-1 penetrates in a
				both of them remain at rest.
			e wooden block is e	
	A. 0J	B. 1J	C. 4J	D. 2J
80.	The value of 'g' w		at	•
	A. the pole of the		B. the center of	f the earth
	C. the Equator of		D. infinity	
81.	_		r than the mass of B	. But the kinetic energy of A
				of A isthat
	of B.		•	
	A. smaller than		B. greater than	1
	C. equal to		D. depends up	on the size of the bodies
82.	When we touch ic	e, we feel cool be	cause of	
	A. the gain of hea	t energy	B. the loss of h	eat energy
	C. the gain of mor	nentum	D. none of the	above
83.	Which of the follo	wing process take	es place faster than t	he others?
	A. Conduction		B. Convection	
	C. Radiation		D. Propagation	n of sound
84.	The full form of E	mf in electricity is	3	
	A. Electromotive	force	B. Electromagi	netic force
	C. Electro motion	force	D. Electricity r	notion force
85.	For a normal eye	e, ciliary muscles	will be strained m	naximum when it views an
	object at			
	A. infinity		B. anywhere	
	C. the least distan	ce of distinct visio	on D. far distance	of distinct vision
86.	Sound wave can b	e propagated thr	ough	
	A. gas medium or		B. Vacuum on	ly
	C. liquid medium	only	D. Solid, liquid	d and gas medium

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87.	Which of the following statement is fa	alse?			
	A. We can have an isolated charge				
	B. We can have an isolated magnetic pole				
	C. We c an have an isolated eye	lens			
	D. We can have an isolated electron				
88.	Sure test of electrification is				
	A. repulsion between unlike charges	B. attraction b	etween unlike charges		
	C. repulsion between like charges	D. attraction l	oetween like charges		
89.	The unit of intensity level of sound is		_		
	A. Wbm <sup>-2</sup> B. dB	C. Wb	D. Joule		
90.	There will be a full moon when				
	A. the moon lies in between the earth	and the sun			
	B. the sun lies in between the earth ar	nd the moon			
	C. the earth lies in between the sun ar	nd the moon not i	in one plane		
	D. the earth lies in between the sun as	nd the moon			
91.	The first reasonably valid IQ test in the	ne world was dev	eloped by		
	A. Alfred Binet	B. Lewis Tern	nan		
	C. David Wechsler	D. William St			
92.	Who is the Author of 'Around The W		-		
			wift D. Graham Greene		
93.	Which of the following works is not r				
	A. Germ theory of diseases	B. Anti rabies			
	C. Pasteurization		of Tuberculosis		
94.	The largest and smallest districts of N	=			
	A. Dolpa and Lalitpur	B. Kailali and			
	C. Dolpa and Bhaktapur	D. Syanja and	=		
95.	controls the way in wh	_	=		
	provides a means by which users can		•		
	A. The operating system	B. The mother			
	B. The platform	D. Applicatio			
96.	If SYSTEM is written as SYSMET and NEARER is written as AENRER, then				
	FRACTION will be coded as				
	A. Carfnoit B. Carftion	C. Noitfrac	D. Fracnoit		
97.	Choose the correct alternative that wi	ill continue the sa	me pattern and fill in the		
	blank spaces. 1, 4, 27, 16, ?, 36, 343				
	A. 125 B. 50	C. 78	D. 32		
98.	When a ship enters a sea from a river	, its portion unde	r water will		
	A. Increase	B. Decrease			
	C. Show no change	D. Increase ar	nd decrease alternatively		
			•		

99. Liberty, Equality and Fraternity, this inspiration was derived from

A. American Revolution B. French Revolution D. None of the above C. Russian Revolution 100. Which country leads in the production of rubber? A. Australia B. India C. Thailand D. Myanmar Practice Test - 2 1. Jason, the only intrepid one, struggled barehanded with the beast. It means Jason A. frightened B. masculine C. thoughtful D. fearless That is the town we will have to drive to reach the destination. A. from which B. of which C. at which D. through which What does the word 'aural' correspond to? B. Speech C. Air A. Hearing D. Heat 4. Find the odd man out in the given set of words A. eleven B. nine C. thirteen D. eighteen 5. 'Incredible' means what is A. not excitable B. not true C. trustworthy D. not believable 6. His \_\_\_\_\_ handwriting resulted from haste and carelessness. A. careful B. beautiful C. unreadable D. lucid Microscopically thin means: 7. A. as slender as a microscope B. so thin that they can be just seen by the naked eye C. so slender that they have to be seen through a microscope D. all of these When people suffer from a sense of doom, they think that A. the world is coming to an end B. the world is progressing day by day C. people are getting more and more intelligent D. the gap between the poor and rich is widening Science has given the nations new occasions for falling out. Falling out means A. quarrelling B. making friends C. disintegrating into smaller parts D. becoming poorer and poorer 10. A war of nerves means: A. an attempt to defeat enemies by putting pressure for losing courage or confidence B. war bought with nuclear weapons C. a guerrilla war D. nervous system Expectation of life means A. their life time achievements B. their average life span

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D. the things people hope to achieve

C. the number of years people lived

L	urance maieriais Conec	uon vy nepo	ai Caesar
12.	An insomniac is a person who:	_	
	A. enjoys sleeping	B. lacks respect for	r maniacs
	C. finds it difficult to sleep	D. Sleeps more tha	an others
13.	Hamlet was reluctant to the mu	ırder of his father.	
	A. avenge B. revenge	C. vengeance	D. none
1.1	Do Patella access		
14.	Predictable means		
	A. we are not at all sure what will happ	en	
	B. it is cautious		
	C. it is safe		
15	D. we can guess what will happen	14: h-tt	
15.	Silver is a good investment.		
1.0	A. Although B. However		D. On the other hand
16.	The conditional clause 'If she were rich,	_	
	A. She would buy that car.	B. She will buy the	
ъ	C. She was going to buy that car.	D. She bought tha	t car.
	nd the following passage and answer the	-	( 1
	elieve that both these feelings do equal l	_	
	r. Because they have this in common th	•	-
	t there is nothing he can do for himself. S		
	of your hands; for good or ill, your s	aivation or your c	100m is the business of
oth			
17.	What makes us think that science is the	-	
	A. The harm	B. Belief	
10	C. The feeling of marvel and fear	D. Our stupidity	160
18.	Why does a layman think that he can do	_	
	A. Lack of experience	B. Lack of education	
10	C. Helplessness	D. Influence of fee	eling marvel and fear
19.	Why do they have to whisper?		
	A. Because they are cunning.	- arır it	
	B. Because they do not want others to k		
	C. The sense of marvel and fear overpoor	ver mem	
20	D. It is a great secret		
20.	The author seems to suggest that		
	A. our doom is the business of others		
	B. Our salvations is the business of othe	rs	
	C. science is the new magic	of faith in a -i	
21	D. our irrational feelings cause the loss of		4
21.	Grace has 16 jellybeans in her pocket. S		=
	ones. What is the minimum number of		st take out of her pocket
	TO UNKLIED THAT CHO HAS OND OF CACH COLOR		

E.	itrance Matei	rials Collec	tion by Nen	al Caesar	
	A. 4	B. 8	C. 12	D. 13	
22	The function $f(x) = -3$		C. 12	D. 13	
22.		B. decreasing	Constant	D. none of these	
22	A. increasing			D. Horie of triese	
23.	The system of the equ	$1311011 \times + 2y = -1, -$		- lestion -	
	A. only one solution		B. finitely many s		
2.4	C. no solution	1. ( 11 (1 1)	D. infinitely man	•	
24.	The area of the triang	-			
25	A. c sq. units		C. ½ c sq. units		
25.			•	way that AB and BA are	
	both defined, then the			D	
	A. m × n $\rightarrow$	B. $n \times n$	C. m × n	D. n×m → → – –	
26.			that $a = \sqrt{3}$ , b	$\vec{b} = 2$ and $\vec{a} \cdot \vec{b} = \sqrt{6}$ , then	
	the angle between $\vec{a}$	and $\vec{b}$ is			
	A. $\frac{\pi}{3}$	B. $\frac{\pi}{4}$	$C.\frac{\pi}{2}$	D. 0	
	A. 3	D. 4	C. <sub>2</sub>	D. 0	
27.	The value of p for v	which the vectors	$\vec{a} = \vec{p} \cdot \vec{i} + \vec{j} - 2\vec{k}$	and $\vec{b} = \vec{i} + \vec{j} - 3\vec{k}$ are	
	perpendicular to each		1 ,	,	
	A. 9	B9	C. 7	D. –7	
28.	A can solve 90% of the	ne problems given	in a book and B ca	an solve 70%. What is the	
				selected at random from	
	the book?		1		
	A. 0.63	B. 0.16	C. 0.97	D. 1.60	
29.	The number of non-e	mpty proper subse	ets of order 6 is		
	A. 64	B. 63	C. 62	D. 60	
30.	If common difference	e is 5, then the tot	al number of arith	nmetic means between 10	
	and 50 is				
	A. 8	B. 9	C. 5	D. 7	
31.	The area of triangle for	ormed by the line 2			
	A. 24	B. 12	C. 6	D. 3	
32.	In a race of 1 km. A b			C beats D by 40 m then A	
	In a race of 1 km. A beats B by 100m. B beats C by 50 m. C beats D by 40 m then A beats D by				
	A. 190 m	B. 820.8 m	C. 179.2 m	D. none	
33.				are equal then (m + n)th	
	term is			,	
		1			
	A. mn	B. $\frac{1}{mn}$	C. 1	D. 0	
34.	If the AM and GM of		dratic equation be	8 and 5 respectively then	
0 1.	the equation is	and roots or a qua	arune equation se	o unu o respectively then	
	A. $x^2 + 6x + 25 = 0$		B. $x^2 - 16x + 25 =$	0	
	C. $x^2 - 16x - 25 = 0$		D. $x^2 - 13x + 40 =$		
	C. A 10A 20 0		2.7 107.10-	~	

Entrance	Materials	<b>Collection</b>	<b>b</b> v	Neval	Caesar
Elli alle	Trace teach	Concenton	$\boldsymbol{\sigma}_{\boldsymbol{J}}$	ropar	Cucsui

35.	The value of $\frac{\cos 11^{0}}{\cos 11^{0}}$	$\frac{\sin 11^0}{\sin 11^0}$ is equal to	the value of	
	A. tan 56 <sup>0</sup>	B. sin 56 <sup>0</sup>	C. cot 56 <sup>0</sup>	D. tan 790
36.	at 10 miles per hour	and starts 3 hours much time will pa	s after the first cycles before the second	The second cyclist travels clist who is traveling at 6 nd cyclist catches up with
	A. 2 hours	B. 4 ½ hours	C. 5 ¾ hours	D. 6 hours
37.	By how much the are	a of sphere is chan	ges when its radiu	ıs is doubled?
	A. 100%	B. 200%	C. 300%	D. 800%
38.	The sum of the first n	terms of the series	s: $\frac{n-1}{n}$ , $\frac{n-2}{n}$ , $\frac{n}{n}$	-3 n,is
	$A. \frac{n-1}{2n}$	$B. \frac{n-1}{2}$	$C. \frac{n(n+1)}{2}$	D. $\frac{n}{2}$
39.	If $(a+b+c)(a-b+c) =$	3ac, then angle B i	s equal to	
	_	-		D. $\frac{\pi}{4}$
	A. $\frac{\pi}{9}$	2	3	4
40.	The circles $x^2 + y^2 + 2a$	-		
	A. $\frac{1}{a^2} - \frac{1}{b^2} = \frac{1}{c^2}$	B. $\frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2} = 0$	C. $\frac{1}{a^2} + \frac{1}{b^2} = \frac{1}{c^2}$	D. $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$
41.				as gravitational potential strikes the ground if it is
	A. 4m/sec	B. 6 m/sec	C. 2m/sec	D. 8 m/sec
42.	Which of the following	ng is a vector quali	ty?	
	A. Time	B. Speed	C. Mass	D. Plane area
43.	A body has K E of 10			=
	A. 5 J	B. 1 J	C. 10 J	D. 100 J
44.				r another, the acceleration What is the magnitude of
	A. 4 N	B. 1 N	C. 3 N	D. 2 N
45.	Which of the following			<i>D.</i> 210
	A. A magnet can not	~		
	B. A magnet can have		1	
	C. A magnet cannot h	nave an isolated po	ole D. None of abo	ve
46.	A convex lens can	the light.		
	A. only converge		B. only diverge	
	C. neither converge n	or diverge	D. converge as w	ell as diverge

47.	Sound wave is					
	A. a longitudinal wave.	B. a transverse w	ave.			
	C. an electromagnetic wave. D. not a wave.					
48.	The work done on bringing a unit posit	ive test charge fro	m one end of a resistor to			
	another is called					
	A. resistance B. potential differ	rence C. emf	D. power			
49.	Conductivity depends upon					
	A. resistivity	B. temperature				
	C. nature of the material	D. all of the abov	e			
50.	For a normal eye, the far distance of dis	tinct vision is				
	A. 25 cm B. infinity	C. 50 cm	D. 75 cm			
51.	The lower limit of auditory for human b	peings is				
	A. 10 Hz B. 100 Hz	C. 20 Hz	D. 20 KHz			
52.	To cool a hot body, we use liquid having	g				
	A. low specific heat capacity	B. low thermal he	eat capacity			
	C. high thermal heat capacity	D. high specific h	neat capacity			
53.	Volume of water will be minimum at					
	A. 0°C B. 4°C	C. 1°C	D. 2°C			
54.	The time period of spin of the earth abo	ut its own axis is				
	A. 1 year B. 366 days	C. 29 days	D. 24 hours			
55.	When a body is negatively charged, its_					
	A. no. of electrons increases	B. no. of electrons	s decreases			
	C. mass increases	D. both a and c				
56.	Which of the following is false in case of	f an electron?				
	A. It is a particle	B. It has wave pr	operty			
	C. It emits energy while moving in orbit	ts				
	D. Its motion is affected by magnetic fie	ld				
57.	Which of the following forms a colloida	l solution in water	·?			
	A. Glucose B. Starch	C. Sodium Chlor	ide D. Urea			
58.	A compound was found to contain nit	rogen and oxyger	n in the ratio 28 : 64. The			
	formula of the compound is					
	A. NO B. N <sub>2</sub> O <sub>3</sub>	C. N <sub>2</sub> O <sub>4</sub>	D. N <sub>2</sub> O <sub>5</sub>			
59.	Chemical formula of a particular compo	ounds reflects				
	A. shape of its molecule					
	B. size of its molecule					
	C. total number of atoms in a molecule					
	D. number of different types of atoms in					
60.	Electronic configuration of M <sup>2+</sup> ion is 2,	8, 14 and its atom	nic weight is 56 amu. The			
	number of neutrons in its nucleus are					
	A. 30 B. 32	C. 34	D. 42			

E	Entrance Materials Collection by Nepal Caesar					
61.	Atoms combine in a s	small whole numb	er ratio, this conce	pt was proposed by		
	A. Dalton	B. Avogadro	C. Gay Lussac	D. Berzelius		
62.	Two substance P as	nd Q combine to	give a third su	abstance R. The process		
	exothermic and R has	s properties differe	ent from those of P	and Q. Is the substance R		
	A. an element	B. a mixture	C. a compound	D. an atom		
63.	Which of the following	ng is called Sylvine	??			
	A. KCl	B. NaCl	C. CaCl <sub>2</sub>	D. MgCl <sub>2</sub>		
64.	Liquid metal is					
	A. Ag	B. Mg	C. Hg	D. none		
65.	The general formula					
	A. $C_nH_{2n+1}$ . $X$	B. C <sub>n</sub> H <sub>2n</sub>	C. C <sub>n</sub> H <sub>2n-2</sub>	D. C <sub>n</sub> H <sub>2n+2</sub>		
66.	In IUPAC system of a		•			
	A. prefix			D. secondary suffix		
67.	Which of the following	· ·				
	A. BaCl <sub>2</sub> + H <sub>2</sub> SO <sub>4</sub> $\rightarrow$ F			$3 \rightarrow AgCl + NaNO_3$		
	C. $HCl + NaOH \rightarrow N$			$I \rightarrow NaCl + Fe(OH)_3$		
68.	_		ommon salt. Which	h process should apply to		
	get pure common sal		D.E	1.0 . 11: .:		
	A. Dissolution and E	_	_	nd Crystallization		
60	C. Evaporation and S			nd Crystallization		
69.				4 and 56 respectively. If		
	atomic number of X i			D 20		
70	A. 26	B. 27	C. 28	D. 30		
70.	German silver is an a	•	C Cu 7n Ni	D C., C. Al		
71	A. Fe, Cr, Ni	B. Cu, Zn, Ag	C. Cu, Zn, Ni	D. Cu, Sn, Al		
/1.	A gymnosperm is a p A. Bears flowers	nant which	B. Produces seed	e in conce		
	C. Does not produce	saads	D. Exhibits no va			
72	Centromere is the pa			isculai tissues		
<i>,</i> ∠.	A. Division of the cer		B. formation of s	nindle fibres		
	C. Movement of chro			of nuclear membrane		
73				reen plants the peacock is		
, 0.	A. A primary consun		B. A primary dec	= =		
	C. Final decomposer		D. The apex of th	-		
74.	A pure tall pea plant	can be distinguish	•			
	A. Selfing and noting			1 1 7		
	B. Gibberellins treatn					
	C. Selfing and noting	that all progeny a	re tall			
	D. Measuring its heigh					
75.	Germinations of seed					
	A. Ovipary	B. Vivipary	C. Hypogeal	D. Epigeal		
	• •	÷ •		- 0		

is

Ei	itrance Materia	ls Collec	tion by Nen	oal Caesar
	Double fertilization and t	riple fusion is	characteristic of	
				s D. Pteridophytes
77.	Which one of the following	~		
	<i>y</i>	Guanine	C. Adenine	D. Uracil
78.	Lysosomes are the			
	A. Digestive centres		B. Respiratory ce	
	C. Excretory centres		D. Energy centre	
79.	Regarding mitosis and animals is that in plants			
	A. Sister chromatids ar another	e identical, w	hereas in anima	ls they differ from one
	B. A cell plate begins to is initiated at that stag	•	nase, whereas in a	nimals a cleavage furrow
	C. Chromosomes become chromosomes do not			hase, whereas in animals
	D. Spindle poles contain		-	s in animals do not
80.	An antiviral substance pr	oduced in cell		
	replication of new virus is A. antibody B.	interferon	C. vitamin c	D. antigen
Q1	One of the characteristics			D. antigen
01.	A. Require oxygen for res		B. Originate from	nra-avicting life
	C. Carry on heterotrophic	•	D. Carry on auto	
82	Clotting of blood inside the		•	troprite nutrition
02.		Platelets	C. Heparin	D. Prothrombin
83	Evolution is best defined		e. Heparin	D. Froundment
	A. Inheritance of acquired		B. Descent with r	modifications
	C. Spontaneous generation		D. Struggle for ex	
84.	When an organism is be			
	known as		8	, <sub>I</sub>
	A. Parasitism B.	Commensalisr	n C. Symbiosis	D. Predation
85.	You are riding a bicycle a		•	
	involved in the maintenant			1 0
	A. Medulla oblongata		B. Semicircular ca	anals
	C. Cerebrum		D. Optic chiasma	l
86.	Metabolic processes in the	e body are cata		

A. Enzymes B. Hormones C. Proteins D. Lipids

87. The intestine of man is very long because

A. It provides larger area for food storage

B. The digestive juices are secreted all through its length

C. The bacteria contained in the food may gradually be killed

D. Its length enables greater scope for food absorption

E <sub>I</sub>	itrance Matei	rials Collec	tion by Nep	oal Caesar
88.	All of the following a	re examples of ref	lex except	
	A. Sneezing	B. Blinking	C. Thinking	D. Knee jerking
89.	Scientific evidence in	dicates that an ele	ment needed to pr	event tooth decay is
	A. Chlorine	B. Iodine	C. Bromine	D. Fluorine
90.	All of the following a	re mammals exce	ot	
	A. Porpoise	B. Walrus	C. Seal	D. Shark
91.	Jack is taller than F	eter, and Bill is	shorter than jack.	Which of the following
	statements would be	most accurate?	,	, and the second
	A. Bill is taller than P	eter		
	B. Bill is shorter than	Peter		
	C. Bill is as tall as Pet	er		
	D. It is not possible to	tell whether Bill	or Peter is taller	
92.	Which of the following	ng is the capital of	a SAARC country	?
	A. Tokyo	B. Sanghai	C. Thimpu	D. Bangkok
93.	S.L.C. examination w	as for the first tim	e started in the yea	arB.S.
	A. 2007	B. 1990	C. 2017	D. 2046
94.	Amsterdam is the cap	oital of		
	A. Denmark		B. the Netherland	ds
	C. Myanmar		D. Belgium	
95.	The largest river of N	lepal is		
	A. Gandaki	B. Koshi	C. Karnali	D. Mechi
96.	Which is the upperm	ost part of the atm	osphere?	
	A. Troposphere	B. Exposphere	C. Stratosphere	D. Mesosphere
97.	A person who travels	s to work and back	by car, bus or trai	n.
	A. Commuter	B. Computer	C. Carrier	D. Pedestrian
98.	Name the organization	on which was the f	orerunner of the U.N.O.	
	A. The League of Na	tions	B. Benelux Union	
	C. Amnesty Internati	onal	D. The Common	wealth
99.	Pointing towards a p	erson, a man said	to a woman, "His	mother is the only
	daughter of your fath		oman related to th	at person?
	A. Sister	B. Daughter	C. Mother	D. Wife
100.	Which of the following	ng gases is used fo	r refrigeration?	

B. Chlorine

D. Ammonia

A. Phosphine

C. Sulphur dioxide

### Practice Test - 3

1.	I gave him	·
	A. one and a half rupees	B. one and a half rupee
	C. one and half rupee	D. one and half rupees
2.	When I entered the bed room I saw a sr	nake
	A. on the ground	B. on the floor
	C. on ground	D. on floor
3.	My brother and	<del>-</del>
	A. myself will go	B. myself will be go
	C. I will go	D. I will be gone
4.	You must see him after	·
	A. dinner B. the dinner	C. a dinner D. an dinner
5.	One must learn to distinguish	·
	A. good from bad	B. good to bad
	C. the good from the bad	D. good from worse
6.	He walks as if	·
	A. the world belongs to him	B. the world is belonging to him
	C. the world had belonged to him	D. the world belonged to him
7.	I went there	·
	A. with a view to buy a book	B. with view to buy a book
	C. with a view to buying a book	D. with a view to book
8.	You	<del></del>
	A. better revise this essay	B. had better revised this essay
	C. had better revise this essay	D. revise this essay better
9.	I did nothing but	·
4.0	A. cried B. cry	C. crying D. did cry
10.	The thief	
	A. escaped before the police came	B. escaped before the police had came
	C. had escaped before the police came	D. had escaped before the police had
11	came	
11.	He asked herA. what was the matter	B. what the matter was
12	C. what the matter	D. about what was the matter
12.	Ilast night.	R have finished my letter
	A. had finished my letter	B. have finished my letter
12	C. finished my letter They will write	D. was finishing my letter
15.	A. as soon as they will arrive home	B. as soon as they arrive home
	C. as soon as they have arrived home	D. as soon as they arrived home
	C. as soon as they have affived home	D. as soon as they arrived nome

in Nepal.

A. was born B. am born

C. have been born D. had been born

\_before I do anything.

A. often think twice B. am often thinking twice

C. often will think twice D. have often thought twice

16. The chief there.

A. with his flowers, were present B. with his flowers, was present

C. with his flowers, be present D. with his flowers, have present

#### Read the following passage and answer the questions given (87-90):

We live in a curious age. We are offered glimpses of a genuine world civilization slowly emerging - the U.N. special agencies, organizations like Oxfam, and here and there, as I have seen for myself, remote enterprises, dedicated to healing or education, with international staff of selfless enthusiasts. And such glimpses warm the heart and brighten hope. But along with these are sight and sounds that suggest that the whole fabric of civilization, the work of centuries, is rapidly being torn apart.

- 17. Such glimpses warm the heart and brighten the hope. It means
  - A. people can't help being optimistic and hopeful.
  - B. such glimpses are good for heart patient.
  - C. such glimpses are want of warmth and hope.
  - D. such glimpses are lacking hope.
- 18. The writer thinks that we live in a curious age,
  - A. because we have a lot of curiosity about the age.
  - B. because we find great things everywhere.
  - C. Because we are better than our forefathers.
  - D. Because this age offers both the glimpses of construction and destruction.
- 19. We are offered glimpses of a genuine world civilization slowly emerging,
  - A. because there are many civilized people in the world who work for the welfare of the mankind.
  - B. because we want to have such glimpses.
  - C. because the world is highly civilized.
  - D. because we pay for such glimpses.
- 20. The author seems to suggest that
  - A. it is an age of progress. B. the civilization is at end.
  - C. it is an age of crisis. D. it is an age of contradiction in values.
- 21. Which of the following are equations of straight line with slope  $-\frac{3}{4}$  and forming

a triangle of area 24 sq. units with coordinate axes?

A. 
$$y = \frac{3x}{4} \pm 6$$

B. 
$$y + \frac{3x}{4} = \pm 6$$
 C.  $y = x \pm 6$ 

C. 
$$y = x \pm 6$$

Entrance Materials Collection by Nepal Caesar 22. Which of the following is the angle between the lines  $x \sec \theta + y \cos \theta = a$  and  $x\cos\theta - y\sin\theta = a\cos 2\theta$ ? A. 300 B. 600 C. 900 D. 1200 23. If the fourth term of G.P is 54 and 6<sup>th</sup> term is 24, which term of the following is  $7\frac{1}{6}$ ? 24. The probability that a boy will get a scholarship is 0.75 and that a girl will get is 0.80. What is the probability that at least one of them will get the scholarship? A. 0.20 B. 0.05 C. 0.95 D. 0.25 25. If f(x) = 3x - 4 and g(x) = 3 - 2x. Which of the following is the value of f(x) = 3x - 4 and g(x) = 3 - 2x. B. -7 C. 9 26. In a right angle  $\triangle ABC$ ,  $\angle B = 30^{\circ}$ , BC = 12cm and area of  $\triangle ABC = 27$ sq. cm. What is the measurement of AB? A. 9 C. 10 D. 18 27. If  $\tan\theta = \frac{5}{6}$  and  $\tan\beta = \frac{1}{11}$ , which of the following is the value of  $\theta + \beta$ ?  $C.\frac{\pi}{2}$ A.  $\frac{\pi}{\epsilon}$ B.  $\frac{\pi}{2}$ 28. Which of the following is the length of each side of equilateral triangle of area 196  $\sqrt{3}$  cm<sup>2</sup>? A.  $7\sqrt{3}$  cm B.  $14\sqrt{3}$  cm C. 28 cm D. 7 cm 29. The root of quadratic equation  $ax^2 + bx + c = 0$  are in the ratio of 3:4. Then which one is true? A.  $b^2 = 4ac$  B.  $4b^2 = 25ac$  C.  $12b^2 = 49ac$  D. None 30. In adjoining figure AB = AD and  $\angle$ BCD=120 $^{0}$ . Then which one is  $\angle$ ADB?  $B.30^{0}$  $C_{..}60^{0}$ A.  $45^{0}$  $D.15^{0}$ 31. Which of the following is the property of Skew Symmetric Matrix A?  $A. A = A^T$ C. [aij] = [aji]32. If three consecutive vertices of a parallelogram are (-2, -1), (1, 0) and (4, 3) then the fourth vertex is A.(1,2)B. (5, 3)C. (2, 1) 33. If prices are reduced by 25% and the sales increase by 20%, what is the net effect on gross receipts? A. increase by 5% B. decrease by 5% C. increase by 10% D. decrease by 10%

C.  $x^2 + y^2 - 5x - 9y + 24 = 0$  D.  $x^2 + y^2 - 5x - 3y + 12 = 0$ 

Entrance	<b>Materials</b>	<b>Collection</b>	<i>b</i> v	Nenal	Caesar
Litti aitee	Muchus	Concenton	Uy	ricpui	Cucsui

	mantee materi	idis Conce	won by rich	out Cucsui
35.	A bus travels at an	average speed of	50 miles per hou	ur for 2.5 hours and then
	travels at a speed of 2	70 miles per hour	for 1.5 hours. How	far did the train travel in
	the entire 4 hours?			
	A. 150 miles	B. 130 miles	C. 125 miles	D. 230 miles
36.	-	•	•	. 3 on the third day and so
	on for 60 days. Total		•	
	A. Rs. 183	B. Rs. 1830	C. Rs. 3660	D. Rs. 5460
37.		-		t 60 paisa each. 10% of the
		•		aining apples at 70 paisa
	each and oranges at I	=	=	_
20	A. 50%	B. 35%	C. 33.3%	D. 26%
38.		e at the origin pas	ses through the po	oint (1, 1). What is the area
	of this circle?		$\overline{}$	
	Α. π	Β. 2π	C. $\sqrt{2} \pi$	D. $4\pi$
39.		has the same are	a as a circle of rad	lius 6, what is the attitude
	of the triangle?			
	Α. 6π	Β. 8π	C. 10π	D. 12π
40.	For what value of m	the pairs $-3\vec{i}+5\vec{j}$	$+ m\vec{k}$ and $4\vec{i} + 6\vec{j}$	$+3\vec{k}$ are orthogonals.
	A. 6	В6	C. 1	D. None
41.	A body completes its	motion in a circul	lar path of radius 2	2m in 1 second .What is its
	average velocity?			
	A. $2\pi$ m/sec	B. $4\pi$ m/sec		D. 1m/sec
42.	The relationship betw	veen velocity ratio	(VR), effort distar	nce (ED) and the load
	distance (LD) is			
	A. $VR = \frac{ED}{LD}$	B. $VR = \frac{LD}{L}$	C. ED= $\frac{VR}{}$	D. ED= $\frac{VR}{}$
	LD	ED	LD	LD
43.	_	_	•	freely under gravity, its
	gravitational potentia			
	A. electrical potential	energy	B. kinetic energy	
	C. sound energy		D. chemical ener	
44.		a person from the	e source is doubled	l to its initial value, the
	intensity of sound is		C : 1. 4	
	A. increased to 2 time		C. increased to 4	
	B. decreased to $\frac{1}{2}$ tin	nes	D. decreased to	$\frac{1}{4}$ times
45.	The real depth of a po	ond is 3m. If the re	efractive index of v	water is 1.33, find its
	apparent depth.			
		B. $\frac{1.33}{3}$	C 1 22v2	<sub>D</sub> 1
	A. $\frac{3}{1.33}$	D. <u>3</u>	C. 1.33×3	$1.33\times3$

Ei	ntrance Mater	ials Collect	tion by Nen	oal Caesar
	Refraction of light is o		_	
10.	A. frequency	_	C. colour	D. nature
47.	When the current is 1.	0		
•	A. 1.6×10 <sup>19</sup> C	B. 3×10 <sup>8</sup> C	C. 1 C	D. 1×10 <sup>8</sup> C
48.				the platform moves with
10.	A. uniform speed in d	•	~	ne patroni moves with
	B. acceleration equal t			
	C. acceleration equal	•		
	D. uniform speed in u			
49.	When a body floats in	•		
	-	•	st B. its weight is	less than the upthrust
	C. its weight is equal			is greater than the upthrust
50.	A lens always forms a	_		
	A. Convex lens	· ·	B. Plano convex	lens
	C. Concavo-convex le	ens	D. Concave lens	
51.	A transformer conver	ts		
	A. AC to AC	B. AC to DC	C. DC to AC	D. DC to DC
52.	When the temperatur	e of water is chang	ged, its density wi	ll be maximum at
	A. 0°C	B. 1°C	C. 2°C	D. 4°C
53.	The heat equation is			
	A. Q = $ms\Delta\theta$		B. $m_1s_1\Delta\theta_1 = m_2s_1$	$_{2}\Delta\theta_{2}$
	C. Q = $\frac{ms}{\Delta \theta}$		D. Q = $\frac{m \Delta \theta}{s}$	
	$\Delta\theta$		S S	
54.	The magnetic lines of	force		
	A. starts from South I	_	•	
	C. starts from negativ	~		orth Pole of the magnet
55.	Which one of the follo	owing is not a rene	•••	rce?
	A. biogas		B. wind energy	
	C. nuclear energy		D. tidal energy	
56.	~ .		_	nts: corn starch, sodium
			nd sodium alumin	ium sulphate." Therefore,
	this baking powder is			
	A a compound		B a molecule	

A. a compound

C. a mixture D. a mixture of elements

57. Which of the following is a physical property of sugar?

A. It is a white crystalline solid

B. It can be decomposed with heat

C. Its composition is carbon, hydrogen & oxygen

D. It turns black with concentrated H<sub>2</sub>SO<sub>4</sub>

<b>E</b> 1	ntrance Materials Collec	tion by Nepal Caesar			
		ne symbol representing the element and an			
	arrangement of dots that usually shows	3			
	A. the atomic number	B. the total number of electrons			
	C. the atomic mass	D. the valence electrons			
59.	When hydrogen combines with an el	ement to form a compound, the resulting			
	compound is				
	A. a salt B. an acid	C. a hydride D. a reduction			
60.	A compound that can be decomposed t	o produce oxygen gas in the lab is			
	A. MnO <sub>2</sub> B. KMnO <sub>4</sub>	C. Na <sub>2</sub> CO <sub>3</sub> D. KClO <sub>3</sub>			
61.	The reaction of aluminium with dilute	H <sub>2</sub> SO <sub>4</sub> can be classified as			
	A. synthesis	B. single displacement			
	C. decomposition	D. double displacement			
62.	The reaction of an acid like H <sub>2</sub> SO <sub>4</sub> and a	a base like CuO always			
	A. forms a blue precipitate	B. forms a volatile salt and water			
	C. forms an insoluble salt and water	D. forms a soluble salt and water			
63.	The correct formula for calcium hydrog	en sulphate is			
		C. Ca(HSO <sub>4</sub> ) <sub>2</sub> D. Ca <sub>2</sub> HSO <sub>4</sub>			
64.	All of the following involve a chemical	change EXCEPT			
	A. the formation of HCl from H <sub>2</sub> & Cl <sub>2</sub>				
	B. the colour change when NO is expos	ed to air			
	C. the formation of CO <sub>2</sub> from burning of				
	D. the evaporation of water at room ten				
65.	-	d according to conventional acid theories?			
	I) It is a good proton donor II) It is a good electron pair acceptor				
	III) It gives excess of H <sub>3</sub> O <sup>+</sup> in solution				
	A. I only B. III only	C. I & II only D. I, II & III			
66.		in the periodic table explains which of the			
	following statements?	•			
	I) The most active non-metallic eleme	ent in the periodic table is fluorine			
		alogen goes from a solid to a gaseous state			
	as you go down the family				
	III) The halogen element becomes ions	by filling the outermost d-orbital			
		C. I & II D. II & III			
67.	Ethene is the first member of the				
		C. alkene series D. alcohol series			
68.	Complete the following chemical change				
	A. MgO <sub>2</sub> B. MgO	C. Mg2O D. (MgO)2			
69.	Which of the following is the correct gr				

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B.  $3d^6 4s^0$ 

70. Which of the following is not a precipitation reaction?

A.  $AgNO_3 + NaCl \rightarrow AgCl + NaNO_3$ 

 $A. 3d^5 4s^1$ 

C. 3d4 4s2

D.  $3d^3 4s^3$ 

B.  $BaCl_2 + H_2SO_4 \rightarrow BaSO_4 + HCl$ 

E	ntrance Materials Collect	tion by Nepal Caesar
	C. $HgCl_2 + 2KI \rightarrow 2KCl + HgI_2$	D. NaOH + HCl $\rightarrow$ NaCl + H2O
71.	All of the following are correct about hu	ıman red blood cells EXCEPT
	A. they are called leucocytes	B. they do not have nucleus
	C. they are formed in the bone marrow	•
72.	Silver fish is	
	A. a fish B. an insect	C. a bone D. none of the above
73.	The famous book "Origin of Species" w	as written by
	A. C Darwin B. A R Wallace	C. C Linnaeus D. J B D Lamarck
74.	In reptiles, heart is	
	A. mostly 3 chambered	B. always 3 chambered
	C. 2 chambered	D. 4 chambered
75.	The part of an eye which acts like a diap	phragm of a photographic camera is
	A. cornea B. iris	C. pupil D. lens
76.	The process of respiration is concerned	
	A. intake of oxygen B. libera	tion of oxygen
	C. liberation of carbon dioxide D. libera	ation of energy
77.	All of the following are true of vitamin.	= -
	A. it prevents night-blindness	B. it is formed from carotene
	C. it is used in making visual purple	D. it is used in making hemoglobin
78.	One of the characteristics of all living be	eings is that they
	A. require oxygen for respiration	B. originate from pre-existing life
	C. carry on heterotrophic nutrition	D. carry on autotrophic nutrition
79.	In man, cellulose is digested in	
	A. colon B. appendix	C. stomach D. none of the above
80.	Of the following terms, which one inclu	des all the others?
	A. Species B. Order	C. Class D. Phylum
81.	The scientific name of mustard is <i>Brassic</i>	ca campestris and that of turnip is Brassica
	rapa. This indicates that both mustard at	nd turnip are members of the
	A. same genus but different species	B. same species but different genera
	~	D. same class but different genera
82.	Which one is the smallest oranism	n capable of autonomous growth and
	reproduction?	
	A. Bacteria B. Virus	C. Mycoplasma D. Blue-green algae
83.	At what phase of meiosis are	homologous chromosomes separated?
	A. Anaphase II B. Anaphase II	C. Prophase I D. Prophase II
84.	When green tomatoes turn red then	
	A. new chloroplast are made	
	B. chromoplast are changed into chlorop	•
	C. chloroplasts are disintegrated and ge	t converted into chromoplast
	D. none of these	

#### Entrance Materials Collection by Nepal Caesar 85. Why do legume plants enrich soil? A. They remove poisonous heavy metals B. They encourage the breeding of earthworm C. Their roots contain symbiotic nitrogen fixing bacteria D. Their root system penetrate 2 meters below the surface 86. Which of the following would be most likely to occur in an ecosystem? A. As the number of prey decreases, the number of predators increases. B. As the number of predators increases, the number of prey increases. C. As the number of prey increases, the number of predators increases. D. As the number of prey increases, the number of predators decreases. 87. In the nitrogen cycle, nitrogen compounds are broken down by decomposers to release A. ammonia B. vinegar C. urea 88. Which of the following is illustrated by an organism that exists in a helpful relationship with another organism? A. photosynthesis B. autotropism C. saprophytism D. mutualism 89. A vacant lot may have organisms such as grass, dandelions, ants, soil bacteria, earthworms, trees, and mice living in it. Together all of these organisms comprise a A. population C. community D. biosphere B. biome 90. Most cells lacking a cell wall also lack A. mitochondria B. a vacuole C. chloroplasts D. a cell membrane 91. Which one of the following makes best comparison? Milk is to glass as letter is to: B. Pen C. Envelope D. Mail A. Stamp 92. What is the world's largest desert? A. The Sahara B. The Kalahari C. The Death Valley D. The Thar 93. What is the last letter of Greek alphabet? A. Pi $(\pi)$ B. Alpha ( $\alpha$ ) C. Beta (β) D. Omega ( $\omega$ ) 94. Who is known as 'Yubak Kabi' of Nepal? B. Moti Ram Bhatta A. Bhanubhakta C. Shambhu Prasad Dhungel D. Madhav Prasad Ghimire 95. Name the country which contains all the vowels of the English alphabet only once. A. Australia B. Indonesia D. Mozambique C. England 96. "Bullish Trend" is related to A. Bull fight B. Stock market C. Economic survey D. Speed of plane 97. Who is considered as the father of medicine? A. Hippocrates B. Herodotus C. Lincoln D. Rehman 98. The longest river in the world is A. Ganga B. Nile C. Amazon D. Bagmati 99. Find the odd one out

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Entrance Materials Collection by Nepal Caesar

C. Inn

C. Silver

D. Hotel

D. Gold

243

B. Club

B. Copper

100. The first metal used by the man was

A. Hostel

A. Iron

### Practice Test - 4

1.	The word has for A. likelihood	our syllables. B. beautiful	C hislagy	D. cogiclogy
2.			C. biology	D. sociology
۷.	Although he is educat A. but he is rude	.eu	B. however he ru	do
	C. he is rude		D. I am educated	
2			D. I am educated	100.
3.	He is senior	D th	C = 6 === =	D -h
4	A. to me	B. than me	C. of me	D. above me
4.	It's high time		D11.(1.	
	A. you clean the room		B. you cleaned th	
_	C. you will clean the r		D. you need to cle	ean the room.
5.	I why you are co	mplaining.	D '111 1	. 1.
	A. am understanding		B. will be unders	tanding
	C. understand		D. understood	
6.	Had I known about it,		D. T. 11.1	.1.
	A. I would do someth	•	B. I could do som	~
_	C. I should have done	O	D. I would have	done something
7.	The house has been en			
_	A. for	B. since	C. No preposition	n D. around
8.	If I I would have	· ·		
	A. were rich	B. am rich	C. had been rich	D. could be rich
9.	You can meet me			
	A. in	B. on	C. at	D. during
10.	I haven't read of			
	A. much	B. many	C. few	D. little
11.	A car drove the g	gate.		
	A. on	B. past	C. at	D. into
12.	He is one of in o	_		
	A. the best students	B. best students		nt D. best student
13.	He is M.A. stud	ent from Tribhuva	an University.	
	A. a	B. the	C. an	D. no article
14.	He has been working	here 10 year	S.	
	A. since	B. past	C. no preposition	D. for
15.	I am six			
	A. foot	B. feet	C. footed	D. feeted
16.	He is five tall.			
	A. foot	B. feet	C. footed	D. feeted

Read the following passage and answer the questions given below (17-20):

Psychologists divide extra-sensory perception (ESP) into four types. The first is telepathy. In telepathy a person is able to communicate with another who may be far away. A soldier on the battle front receives a message from his wife. Another type of ESP is clairvoyance, the ability to see events, persons and things not known to anyone else. The third type of ESP is precognition, the ability to foresee what is going to happen in the future. Finally there is psychokinesis, the power of mind over matter: a person having this ability will be able to move objects without touching them.

- 17. What does ESP refer to
  - A. ESP refers to extra-sensory perception
  - B. ESP refers to science
  - C. ESP refers to the ability to communicate without using senses.
  - D. ESP refers to senses
- 18. The author seems to suggest that
  - A. We should develop ESP
  - B. ESP is better than science
  - C. ESP is the gift of God
  - D. Extra-sensory perception cannot be explained by the law of nature
- 19. Telepathy means
  - A. system of communication by the use of telephone
  - B. ability to communicate
  - C. mechanism of communication during the time of war
  - D. direct communication of thoughts from one person to another without using senses
- 20. Is there any difference between science and ESP?
  - A. Science depends on five senses unlike ESP
  - B. There is no difference at all
  - C. Science depends on experiments and ESP on five senses
  - D. ESP depends on experiments and science on five senses
- 21. What will be the remainder of  $4x^3 + 6x^2 + 3x 1$ , when it is divisable by x + 2.

B. -15

C. 61

22. For what value of k the equation  $3x^2 + 7x + 6 - k = 0$  has one root equals to zero.

A. 3

D. -6

23. Value of cos  $67 \frac{1^0}{2} = \dots$ 

A.  $-\frac{1+\sqrt{5}}{4}$  B.  $\frac{\sqrt{2}-1}{4}$  C.  $-\frac{\sqrt{2}-1}{4}$  D.  $\sqrt{\frac{\sqrt{2}-1}{2\sqrt{2}}}$ 

24. Value of  $\cos^2 5^0 + \cos^2 10^0 + \dots + \cos^2 90 = \dots$ 

A. 1

B. 7

C.  $8\frac{1}{2}$  D.  $9\frac{\sqrt{3}}{2}$ 

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25.	The slope of the line $x \cos \alpha +$	$y \sin \alpha = p \text{ is } \dots$		_	

A. tan  $\alpha$ 

B.  $\cot \alpha$  C. -  $\tan \alpha$  D. -  $\cot \alpha$ 

26. The perpendicular distance between the lines 2x + 3y = 5 and 8x + 12y - 7 = 0

	is			
	A. 2	B. $\frac{\sqrt{13}}{4}$	C. $\frac{13}{4}$	D. none
27.	The equation of the li	ne passing throug	h (1, -2) and parral	el to y – axis is
	A. $y = 1$	B. $y = 2$	C. $x = -1$	D. $x = 1$
28.	If $\overset{\rightarrow}{a}$ and $\overset{\rightarrow}{b}$ are two	unit vectors such t	hat $\begin{vmatrix} \overrightarrow{a} - \overrightarrow{b} \end{vmatrix} = \begin{vmatrix} \overrightarrow{a} + \overrightarrow{b} \end{vmatrix}$	, then the angle between
	$\stackrel{\rightarrow}{a}$ and $\stackrel{\rightarrow}{b}$ is			
	A. $\frac{\pi}{2}$	B. $\frac{\pi}{3}$	C. $\frac{\pi}{4}$	D. $\frac{\pi}{6}$
•	2	3	7	O
<u> 2</u> 9.	The area of symbol $\Delta$			
	A. 10 or 12	B. 10	C. $2\sqrt{37}$ or $2\sqrt{13}$	D. $2\sqrt{37}$
30.	Three coins are tossed	d together. Find th	e probability of ge	tting at least two heads?
	A. $\frac{1}{8}$	B. $\frac{3}{8}$	C. $\frac{1}{2}$	D. $\frac{1}{4}$
31.	If 13, p, q, r, 29 are in	A.P. Find the valu	e of r.	
	A. 25	B. 17	C. 21	D. 24
32.	Find the value of $\sqrt{20}$	$+\sqrt{20+\sqrt{20+\ldots \infty}}$		
	Α. ∞	B. 20	C. 5	D. 4
33.	The surface area of a	cube is 150 square	feet. Calculate vol	ume of the cube.
	A. 30 cft	B. 50 cft	C. 100 cft	D. 125 cft
34.	If $x^a = y^b = z^c$ and $y^2 =$	xz, then the value	of b is	
	A. $\frac{a+c}{2}$	B. ac	C. √ac	D. $\frac{2ac}{a+c}$
35.	Choose the pair num	bers which come n	ext to 75, 65, 85, 55	5, 45, 85, 35,
	A. 25, 15	B. 25, 85	C. 35, 25	D. 35, 85
36.	What single discount	is equivalent to tw	vo successive disco	ounts of 10% and 15%?
	A. 25%	B. 24%	C. 24.5%	D. 23.5%
37.	If price is reduced by receipts?	25% and sales inc	rease by 20%, wha	t is the net effect on gross
	A. increase by 25%		B. decrease by 5%	o o
	C. increase by 10%		D. decrease by 10	)%
38.	A shopkeeper sales 2 will be his profit %?	25 item and receive	e the C.P. after sel	ling 20 items. Then what
	A. 25%	B. 4.5%	C. 5%	D. 15%
246 <b>E</b> 1	itrance Matei		OLLEGE & SS tion by Nep	oal Caesar

39.				be empties it in 1 hour. If by hours will the cistern be		
	A. 3 hours	B. 4 hours	C. 6 hours	D. 2 hours		
40.	If two diagonals of a r	hombus are 14 cm	and 12 cm then it	s area is $\frac{1}{2}(d_1 \times d_2)$		
	A. 36 cm <sup>2</sup>	B. 84 cm <sup>2</sup>	C. 28 cm <sup>2</sup>	D. 7 cm <sup>2</sup>		
41.	All of the following ar					
	A. Shark	B. Seal	C. Porpoise	D. Bat		
42.	Bats and birds are goo	od fliers but the ba				
	A. Diaphragm		B. Four-chamber	ed heart		
	C. Wings		D. Warm blooded	dness		
43.	By the statement 'surv	vival of the fittest',	Darwin meant that	at		
	A. The strongest of all	species survives				
	B. The most intelligent of the species survives					
	C. The cleverest of the	species survives				
	D. The most adaptable of the species to changes survives					
44.	4. Most of the endangered species are the victims of					
	A. Habitat destruction	ı	B. Over-hunting			
	C. Acid rain		D. Competition v	vith introduced species		
45.	During heart attack, a	doctor may inject				
	A. Thyroid	B. Prolactin	C. Insulin	D. Adrenaline		
46.	The autonomic nervo	us system controls	all of the following	ng EXCEPT		
	A. Secretion of digesti	ve juice	B. Sweating			
	C. Thought		D. Peristalsis			
47.	Which one of the follo	wing human cells	do not contain mi	itochondria?		
	A. Nerve cell		B. Red blood cell			
	C. Liver cell		D. White blood c	ell		
48.	Which of the followin	g is NOT correctly	matched?			
	A. Sycon – Canal syste	em	B. Star fish – Rad	ial symmetry		
	C. Round worm - Pse	udosegmentation	D. Insect – Metar	neric segmentation		
49.	A balanced diet does	NOT include				
	A. Carbohydrates and	l fats	B. Nucleic acids a	and enzymes		
	C. Proteins and vitam	ins	D. Minerals and	salts		
50.	Which one of the follo	wing is NOT the p	period of Mesozoi	c era?		
	A. Triassic	B. Permian	C. Jurassic	D. Cretaceous		
51.	-		•	ned leaves, and brightly		
	colored flowers each	with 6 stamens, th	ne plant would m	ost precisely be classified		
	as					
	A. Gymnosperm	B. Angiosperm	C. Monocotyledo	n D. Dicotyledon		

52.	Fruits are not formed in gymnospern	ns because	
	A. they have no ovary	B. they are not p	ollinated
	C. they are seedless plants	D. process of fer	tilization doesn't take place
53.	A nitrogenous base that occurs in DN	-	-
	A. adenine B. cytosine	C. uracil	D. thymine
54.	-	taining organic mole	_
	A. decomposers (e.g., bacteria)	B. producers (e.g	
	C. primary consumers (e.g., mice)		mers (e.g., hawk)
55.	Which of the following statement is N	-	_
	A. have protoplasm	B. obligate paras	
	C. have nucleic acid	D. can respond t	
56.	The branch of biology deals with the		
	A. Phycology B. Mycology	C. Ornithology	
57.	Pollination involves a transfer of poll		, 0,
	4		
	2	5 6 7	
		8	
	A. 1 to 2 B. 3 to 5	C. 4 to 5	D. 5 to 4
58.	Which of the following is human hap	oloid chromosome nu	ımber?
	A. 10 B. 23	C. 46	D. 92
59.	Daughter chromosomes start to mov during	e towards the oppos	ite poles of a dividing cell
	A. prophase B. metaphase	C. anaphase	D. telophase
60.	Organisms that comprise the grea	test mass of living	substance (biomass) in
	terrestrial food chain are		
	A. decomposers (e.g., bacteria)	B. producers (e.g	g., grasses)
	C. primary consumers (e.g., mice)	D. tertiary consu	mers (e.g., hawk)
61.	The constant related to the gravitatio	nal force has unit in	SI system of units
	A. m sec <sup>-2</sup> B. kg m sec <sup>-1</sup>	C. N m <sup>2</sup> kg <sup>-2</sup>	D. J m sec <sup>-1</sup>
62.	The physical quantity related to the h	neight of liquid is	
	A. pressure B. mass	C. weight	D. density
63.	A body of volume 1 m <sup>3</sup> is wholly im	mersed in a liquid o	of density 13600 kg / m <sup>3</sup> at
	the sea level. The loss in weight of the	_	
	A. 1360 N B. 13.6 N	$C.\left(\frac{1}{13600}\right)N$	D. 136000 N

Ei	itrance Mat	terials Colle	ection by No	epal Caesar
				number of electrons in this
	atom is			
	A. 12	B. 11	C. 23	D. 1
65.		al energy is suppl	ied to 1kg water v	which raises its temperature
	A. 100 K	B. 4200 K	$C.\left(\frac{1}{4200}\right)K$	D. $\left(\frac{1}{42}\right)$ K
66.	A person suffering	g from myopia has	to use	
	A. biconvex lens		B. planoconve	x lens
	C. biconcave lens		D. concavocon	vex lens
67.	An object is placed	d at a distance of 2	0 cm from a conve	x lens of focal length 10 cm.
	The image formed	by the lens will be	9	
	A. at 20 cm from the	he lens, inverted a	nd real	
	B. at 20 cm from the	ne lens, inverted ar	nd virtual	
	C. at 20 cm from the	ne lens, erect and r	eal	
	D. at 20 cm from the			
68.	To find the direction			
	A. Maxwell's cork	screw rule is used	B. Right hand	thumb rule is used eft hand rule is used
69.	If an electric heater	r of voltage 220 V		what is its electric power?
	A. 44 watt	B. 880 watt	C. 1100 watt	D. $\left(\frac{1}{44}\right)$ watt
70.	In uniform velocity			
			velocity remain cor	nstant
	B. only magnitude			
	C. only direction r			
	D. neither magnitu			
71.	Which one of the f	followings is a vect	* *	
	A. work	B. power	C. speed	D. moment of force
72.	The unit of intensi			
	A. Cd	B. dB	C. Joule	D. Watt m <sup>-2</sup>
73.				in an electric circuit.
	A. Voltmeter	B. Ammeter		ter D. Ohmmeter
74.	_	en the magnetic n	neridian and the	geographical meridian at a
	place is known as		D 1 61	
	A. angle of declina		B. angle of dip	
	C. angle of inclina		D. angle of fric	
75.				ner medium, it increases its entrance, then the second
	medium must be .			
	A. rarer	B. denser	C. not other	D. none of above

$E_{I}$	ntrance Materials Collec	ction by Nep	oal Caesar
	Which solution will change red litmus	_	
	A. HCl (aq.) B. NaCl (aq.)	C. CH3OH (aq.)	D. NaOH (aq.)
77.	Given the equation: $H^+ + OH^- = H_2O$ ,		
	represent?	7.7	•
	A. Esterification	B. Decomposition	on
	C. Hydrolysis	D. Neutralizatio	n
78.	Which of the following element is essen	ntial in all organic	compounds?
	A. Nitrogen B. Hydrogen	C. Oxygen	D. Carbon
79.	Naturally occurring polymers are		
	A. starch and nylon	B. starch and cel	lulose
	C. protein and nylon	D. protein and p	lastic
80.	Which of the following compound is re	epresented by the g	general formula C <sub>n</sub> H <sub>2n+2</sub> ?
	A. Butane B. Butene	C. Butyne	D. Benzene
81.	Compare to the charge and mass of a p	roton, an electron	has
	A. the same charge and a smaller mass		
	B. the same charge and the same mass		
	C. an opposite charge and a smaller ma	ass	
	D. an opposite charge and the same ma		
82.	Which of the following atom consists of	f exactly fifteen pr	otons?
	A. P-32 B. S-32	C. O-15	D. N-15
83.	Which of the following three groups re	present, the most of	elements classified as
	metalloids in the periodic table?		
	A. 1, 2 & 3 B. 2, 13 & 14	C. 14, 15 & 16	D. 16, 17 & 18
84.	When a metallic atom combines with a	non-metallic atom	, the non-metallic atom
	will		
	A. lose electrons and its size will decre		
	B. lose electrons and its size will increa		
	C. gain electrons and its size will decre		
	D. gain electrons and its size will incre		
85.	Which of the following is a binary com		1
	A. Hydrogen sulphide	B. Hydrogen sul	='
0.6	C. Ammonium sulphide	D. Ammonium s	
86.	Some students are asked to describe di	fferences between	gases and liquids. Three
	of their suggestions are:		
	I) Gas molecules are further apart		
	II) Gas molecules are smaller		
	III) Liquid molecules vibrate around fix	xea positions	
	Which suggestions are correct?	C III amla	D. All of the above
87	A. I only  Which method can be used to obtain or	C. III only	D. All of the above
87.	Which method can be used to obtain consideration solution?	ystais of soutum c	moriue mom aqueous
		n C. Evaporation	D. Electrolysis
	73. I veditalization D.Crystallization	i C. Evaporation	D. Electrorysis

Entrance Materials Collection by Nepal Caesar 88. An element S has the proton number 18. The next element in the periodic table is an element T. Which statement is correct? A. Element T has one more electron in its outermost shell than element S. B. Element T has one more electron shell than element S. C. Element T is in the same group of the periodic table as element S. D. Element T is in the same period of the periodic table as element S. 89. Substance 'E' when reacts separately with zinc, sodium hydroxide and marble pieces, the respective products formed are hydrogen, sodium chloride and carbon dioxide. Identify the substance 'E'. A. An alkali C. An element D. A salt B. An acid 90. A yellow colored energy drink consists of a dissolved mixture of red and orange coloring agents. Suggest a suitable mean to separate these coloring agents. A. Distillation B. Evaporation C. Filtration D. Chromatography 91. What is the minimum age requirement of a person in Nepal to be eligible to vote in the national election? A. 16 years B. 18 years C. 19 years D. 21 years 92. The headquarter of World Trade Organization is located at A. Washington D.C. B. New York B. Geneva C. London 93. The World Environment Day is celebrated on A. June 5 B. December 10 C. April 23 D. January 1 94. What do we know Rontgen rays as? B. β-rays C. γ-rays D. X-rays A.  $\alpha$ - rays 95. Which is the Largest Ethnic group in Nepal? A. Brahmin B. Tharu C. Tamang D. Chhettri 96. Which Hindu God is considered to be the 'God of Good fortune,' the one who removes obstacles? A. Lord Rama B. Lord Ganesha C. Lord Krishna D. Lord Kartikeya 97. Which branch of science is related to the study of blood, the blood-forming organs and blood diseases? A. Hematology B. Nephrology C. Rheumatology D. Pulmonology 98. In which language did Buddha preach his teachings? C. Pali D. Sanskrit A. Nepali B. Aramaic 99. AUTHOR: MANUSCRIPT::

A. optician : spectacles B. engineer : bridge C. architect: blueprint D. doctor : stethoscope

100. The first Asian Games were held at

A. New Delhi in 1950 B. Bangkok in 1952

C. Singapore in 1952 D. Kuala Lumpur in 1952

### **Practice Test - 5**

1.	Although she is not r	ich cho alturatre tira	are elethes	
1.	A. respective	B. respected	C. respectable	D. respectful
2.	The clients were serve		*	D. respectiui
۷.	A. in a courteous man	-	B. courteous man	norly
	C. with courteous in			inerry
3			D. courteously	
)	so many peop		B. Never before h	
	A. More than ever be			
4	C. In the past, there n		D. Formerly, they	were never
4.	I will talk to him if		0.1.1	D 1 '11
_	A. he comes		e C. he has come	D. ne will come
5.	His company is great	-	C (	D
_	A. at	B. after	C. for	D. out
6.	I wish Iyou.			-
	A. am	B. was	C. had been	D. were
7.	Prices haveso ra			
	A. raised	B. rise	C. raising	D. risen
8.	I'd rather stay here,			
	A. hadn't I	B. don't I	C. wouldn't I	D. didn't I
9.	They aren't happy an	d		
	A. so am I	B. I am too	C. neither is I	D. I am not either
10.	Theyto the US	SA by December.		
	A. will fly	B. will be flying	C. will have flow	n D. may fly
11.	Which word is incorr	ectly spelt?		
	A. preferable	B. nupital	C. nuisance	D. hygiene
12.	He works hard in ord	ler to <b>keep the pot</b>	boiling. The mean	ning of the phrase in bold
	type is:			
	A. To keep the machi	ne working		
	B. to boil the pot			
	C. to earn enough me	oney to buy one's f	food.	
	D. to lead a comfortal	ble life		
13.	It is time youh	ome.		
	A. go	B. went	C. have gone	D. are going
14.	One who hates wome	en is:	Ü	
	A. misogamist	B. misogynist	C. masochist	D. misanthrope
15.	•	0,		ī
	A. I was pleased by h		B. I was pleased a	at her sincerity.
	C. I was pleased with	•	D. I was pleased	•

- 16. The indirect speech of: The teacher said, "Be quiet boys."
  - A. The teacher said that the boys should be guiet.
  - B. The teacher called the boys and told them to be quiet.
  - C. The teacher urged the boys to be quiet.
  - D. The teacher ordered the boys to be quiet.

#### Read the following passage and answer the questions that follow:

I know that only one person in a thousand knows the trick of really living in the present. Most of spend 59 minutes an hour living in the past, with regret for lost joys, to ng nis an

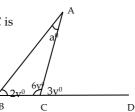
or s	name for the things t	badiy done-or in a	i ruture v	vnich we	eitner ior	ig for or aread
Yet	the past is gone beyon	nd repair, and ev	ery minu	te you sp	end in th	e vain effort to
anti	cipate the future is a	moment lost. The	ere is onl	ly one w	orld, the	world pressing
agai	inst you at this minu	te. There is only	one min	iute in w	hich you	are alive, this
mir	acle- here and now.	The only way to	live is b	y accept	ing every	minute as ar
unr	epeatable miracle. Whi	ch is exactly what	it is- a m	iracle and	d unrepea	table.
17.	People live either in the	ne past or in the f	uture beca	ause:		
	A. They are in the hab	oit of chewing the	curd			
	B. They are prey to imaginary fears					
	C. They are chained to memory and desire					
	D. None of these	•				
18.	What is an unrepeatal	ole miracle?				
	A. Every moment that	t we live and spen	d	B. To re	pair the pa	ast
	C. To crave for what i				of these	
19.	The attitude of the au	thor is:				
	A. Romantic	B. classical	C. politi	cal	D. pragn	natic
20.	The most suitable title	e for the passage w	vill be:			
	A. Past is dynamic		B. the ar	t of living	7	
	C. Importance of the	present D. Impo	ortance of	the past	-	
21.	A train went 300 mile			_	speed of 8	0 mph. At
	what speed did it trav	•	-	_	-	•
	was 100 mph?	•		0 1		•
	A. 120 mph	B 125 mph	C 133 1	- mph	D 137 1	mph
			-	•		
22.	If a wheel travels 1 km		ate of 600	revolutio	ns per mi	n., then
	diameter of the wheel			_		_
	A. $\frac{2}{3\pi}$	B. $\frac{3}{}$	C.	<u>5</u>	D.	6
23.	The co-ordinates of a	triangle are (0, 2),	(2, 4) and	(1, 6). Th	en the are	ea of triangle in
	sq. unit is					
	A. 2	B. 3	C. 4		D. 5	

- 24. If  $7^{x+1} 7^{x-1} = 336\sqrt{7}$ , then value of x is

C.  $-\frac{3}{4}$ 

- 25. In the adjoining figure, side BC of triangle ABC is extended to D. What is value of a?
  - A. 20 C. 25

D. 20

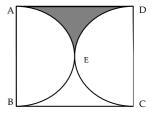


- 26. If ABCD is a square, with side AB = 4 ft. and AED and CED are semicircles, what is the area of shaded part of the diagram in sq. feet?
  - $A.8 \pi$

B.  $8 - 2\pi$ 

C.  $16 - 2\pi$ 

D.  $16 - 4\pi$ 



- 27. If  $\sin\theta = -\frac{1}{2}$  and  $\cos\theta = \frac{\sqrt{3}}{2}$  then which one of the following satisfies for  $\theta$ ?
  - A. 210<sup>0</sup>

B. 120°

C. 330<sup>0</sup>

- D. 300<sup>0</sup>
- 28. Value of  $\cos 22 \frac{1}{2}^{\circ} = \dots$

- B.  $\sqrt{\frac{1+\sqrt{2}}{2\sqrt{2}}}$  C.  $\sqrt{5}-1$  D.  $\sqrt{2}-1$
- 29. If the area of triangle formed by a line 2x + 3y k = 0 is 12 sq. units then value of k
  - $A. \pm 6$

- $B. \pm 8$
- $C. \pm 12$
- $D. \pm 18$
- 30. The equation of the circle having center (5, 4) and touching y-axis is
  - A.  $x^2 + y^2 10x 8y + 25 = 0$
- B.  $x^2 + y^2 5x + 4y + 8 = 0$
- C.  $x^2 + y^2 5x + 4y + 8 = 0$
- D.  $x^2 + y^2 42 5y + 10 = 0$
- 31. What is the value of k the equation  $9x^2 kx + 18 = 0$  has equal roots
  - A.  $\pm 24 \sqrt{2}$
- B.  $\pm 18\sqrt{2}$

- $D. \pm 46$

- 32. If  $x = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$  and  $3x \begin{bmatrix} 2 & 3 \\ 0 & 2 \end{bmatrix} = \begin{bmatrix} 1 & 3 \\ 0 & 1 \end{bmatrix}$  then the value of a is

A = 0

A. 17

- D. 3
- 33. For an A.P. if  $t_{25} t_{15} = 170$  then the value of d is
  - B. -17
- C. 10
- D. 34

E	ntrance Mat	erials Coll	ection by N	lepal Caesar
	If $f(x) = x+2$ then $f(x)$		•	•
	A. $x^2$	В. х	C. x-1	D. x+1
35.	A and B are any tw	o sets then $A \cap ($	B – A) is equal to	
	A. A	В. В	C. B – A	D.
36.	The angle between	the vectors $\vec{a} = \vec{i}$	$+2\vec{j}$ and $\vec{b}=6\vec{i}$	-3 <b>j</b> .
	A. 0	B. $\frac{\pi}{3}$	C. $\frac{\pi}{4}$	D. $\frac{\pi}{2}$
37.	replacement. What	is the probability	that the cards wi	gular deck of 52 cards with ll be an ace and a 10?
	A. $\frac{1}{39}$	B. $\frac{2}{13}$	C. $\frac{8}{13}$	D. $\frac{5}{26}$
38.		each, and the ave	rage score of rest	ents scored 100 marks each, 3 of the students was 40. What D. 40
30				the cost price. If he sold an
39.	article allowing 10°			•
	A. 20%	В. 17%	C. 23%	D. 40%
40				which of the following must
10.	be true.	uve miegers and	(iii p) iii is even,	which of the following must
	A. If m is odd, ther	n is odd	B If m is ever	n, then p is even
	C. If m is odd, then	_		n, then p is odd
41		_		use of alleged similarities
11.			_	haracteristics of the fungi
	that are <b>NOT</b> seen		ne ronowing are es	ratuction of the range
	A. Food reserve con		1	
	B. Cell wall contain		•	
	C. Organism is euk			
	D. Absorptive hete	•	mode of nutrition	
42.	Tube like cells that			ts of a plant are
	A. Xylem cells	•		ells D. Bast fibres
43.	Which of this organ			
	A. Nucleus		ria C. Ribosome	D. Chloroplast
44.	The process that be			r
	A. Respiration			thesis D. Osmosis
45.				eak root system. Which of the
	given plants has no		, ,	,
	A. Water fern	B. Wolffia	C. Hydrilla	D. Lotus
46.	Which of the follow			
	A. Circinate vernat	~	B. Ramenta	
	C. Reproduction by		D. Rhizome	
	1 " )			

E	itrance Mate	rials Collec	tion by Nep	oal Caesar
47.	Natural vegetative p	ropagation by root	is a common meth	nod of asexual
	reproduction in			
	A. Sugarcane	B. Rose	C. Potato	D. Dahlia
48.	Thermotropism is a		•	nulus. Which of the
	following plants is c	haracterized by this	•	
	A. Rose		B. Mimosa pudica	
	C. Tulip		D. Chlamydomona	าร
49.	The shape of a DNA	molecule is		
	A. Straight	B. Circular	C. Flat	D. Spiral
50.	Which of the followi	ng is not a good so	urce of carbon?	
	A. Coal		B. Petroleum fue	l
	C. Ammonia		D. Dead body of	organisms
51.	Blood cells from the	blood are eliminate	ed and the liquid le	eft is
	A. Serum		B. Plasma	
	C. Almost water		D. Only RBC and	d Hemoglobin
52.	The larva silkworm	is		
	A. Butterfly	B. Scorpian	C. Moth	D. Grass hoppers
53.	Autotrophic compor	nent of ecosystem is	5	
	A. Sunlight	B. Green plants	C. Herbivores	D. Fungi
54.	Which of the follow	ing is a matching s	et in animal taxono	omy?
	A. Silver fish, Cuttle	fish, Devil fish	B. Flatworm, Round worm, Earthworm	
	C. Butterfly, Mosqui	to, Cockroach	D. Shark, Whale,	Dolphin
55.	Rods and cones are l	ocated in		
	A. Cochlea of ear	B. Choroid of eye	e C. Retina of eye	D. Taste buds of tongue
56.	Ascorbic acid is a/an	Į.		
	A. Lipid	B. Protein	C. Vitamin	D. Carbohydrate
57.	All of the following	organic compound	s are carbohydrate	s EXCEPT
	A. Glycogen	B. Maltose	C. Glycerol	D. Starch
58.	Special structures for	r absorption in sma	all intestine are call	led
	A. Alveoli	B. Villi	C. Epiglottis	D. Muscles
59.	Of the following ter	ms, which one incl	udes all the others	?
	A. Species	B. Class	C. Phylum	D. Kingdom
60.	Which pair of anima separately?	l groups, has oxygo	enated and deoxyg	genated blood in the heart

A. Amphibians & Reptiles B. Birds & Mammals

C. Reptiles & Birds D. Reptiles & Mammals

61. The king of chemical is:

A. HCl B. H<sub>2</sub>SO<sub>4</sub> C. HNO3 D.H<sub>2</sub>CO<sub>3</sub>

62. In alkaline medium, the phenolphthalein indicator turns into

A. Colorless B. Yellow C. Red D.Pink

LI	itrance Matei	rais Conec	non by Nep	oai Caesar			
63.	Which one of the follo	owing salts gives a	lkaline solution w	hen dissolved in water?			
	A. Na <sub>2</sub> CO <sub>3</sub>	B. CuSO <sub>4</sub>	C. NH <sub>4</sub> Cl	D. NaCl			
64.	The salts of which on	e of the following	metals are colored	?			
	A. Na	B. Ca	C. Al	D. Cr			
65.	The aquaregia is a mi	xture of conc. HCl	and conc. HNO3 i	n the ratio of			
	A. 2:6	B. 6:2	C. 3:2	D. 2:3			
66.	The general formula	of alkyne is					
	A. C <sub>n</sub> H <sub>2n</sub>	B. C <sub>n</sub> H <sub>2n+2</sub>	C. C <sub>n</sub> H <sub>2n-2</sub>	D. C <sub>n</sub> H <sub>2n+1</sub> OH			
67.	The functional group	of ether is					
	A. – OH	B. – CHO	C CO -	D O -			
68.	The oxide used to im	part the green colo	r into glass is				
	A. CoO	B. NiO	C. Cr <sub>2</sub> O <sub>3</sub>	D. Fe <sub>2</sub> O <sub>3</sub>			
69.	The chemical fertilize	r "UREA" is the m	ajor source of				
	A. Phosphorus	B. Potassium	C. Nitrogen	D. Sodium			
70.	BHC is a/an						
	A. Germicide	B. Insecticide	C. Pesticide	D. Fungicide			
71.	Which of the following	ng is not ore of iror	n?				
	A. Hematite	B. Magnetite	C. Limonite	D. Bauxite			
72.	The electronic configuration of an element is 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>6</sup> 4s <sup>1</sup> 3d <sup>5</sup> . The element						
	belongs to which grow	up of the periodic	table?				
	A. s- block	B. p- block	C. d-block	D. f- block			
73.	Which two elements	will display the m	ost similar chemica	al properties?			
	A. Iron and Phospho	rus	B. Chlorine and	Oxygen			
	C. Carbon and Boron		D. Potassium and	d Sodium			
74.	The dry ice is						
	A. Solid water		B. Solid carbondi	oxide			
	C. Solid camphor		D. Solid ammoni	a			
75.	Which one of the follo	owings is decompo	osition reaction?				
	A. C $+O_2 \rightarrow CO_2$		B. 2C+ $H_2 \rightarrow C_2H_2$				
	C. C+2S $\rightarrow$ CS <sub>2</sub>		D. $2KClO_3 \rightarrow 2KCl + 3O_2$				
76.	The ratio of the gravi						
	when their masses are	when their masses are doubled and distance between them is halved, before and					
	after the change will l	be					
	A. 2:1	B. 1:2	C. 1:16	D. 4:1			
77.	The unit of pressure i	s					
	A. Pa	B. Pam <sup>-2</sup>	C. Pam <sup>-1</sup>	D. Pam			
78.	Which one of the follo	owings is the sourc	ce of renewable en	ergy?			
	A. Solar energy	B. Coal	C. Oil	D. Natural gas			
79.	The specific heat capa	•	•				
	A. Quantity of matter	•	B. Temperature o				
	C. Nature of matter		D. Shape of matte	er			

80.	Which type of lens is used in camera?	
	A. Plano-concave B. Convex	C. Biconcave D. Convexo-concave
81.	When a man suffers from long sight	redness, his eyelens makes the image of a
	distant object	
	A. Before his retina	B. Beyond his retina
	C. At his retina	D. Nowhere
82.	What will be the total cost of electricity	to be paid in a month when three bulbs
	each of 40 Watt are used for 4 hours in	<del>=</del>
	A. Rs. 14.4 B. Rs. 100.8	C. Rs.0.48 D. Rs. 144
83.	According to Fleming's right hand rule	e, the fore finger shows the direction of
	A. Motion	B. Magnetic field
	C. Electric current	D. None of above
84.	If a body is moving with constant linea	r positive acceleration,
	A. It moves with constant velocity	B. It remains at rest
	C. It decreases its velocity at constant r	ate D. It increases its velocity at
	constant rate	·
85.	Transformation of energy is based on the	he principle of conservation of
	A. Linear momentum	B. Angular momentum
	C. Energy	D. Charge
86.	A ray of light enters normally from air	medium to water medium. Its speed
	A. Increases B. Remains the same	•
	C. Decreases D. Either increases or dec	reases
87.	If the frequency of sound wave is 100H	z and wavelength 3.3m, what will be its
	speed?	
	A. 330m/sec B. 660m/sec	C. 165m/sec D. 3300m/sec
88.	Which is not the unit of potential differ	rence?
	A. Volt B. Joule/coulom	b C. Nm/coulomb D. Kgm/coulomb
89.	At neutral point, the magnitude of resu	ıltant magnetic field will be
	A. Maximum	
	B. Equal to the algebric sum of the mag	nitude of individual magnetic fields
	C. Zero D. Neglected	
90.	Alloy is a mixture of	
	A. Conductors	B. Insulators
	C. Semiconductors	D. Conductor and insulator
91.	One tola of gold is equivalent to	
	A. 10 grams B.10.54 grams	C. 12.353 grams D. 11.664 grams
92.	Cartography is	
	A. Science of vehicles	B. Art of beautiful handwriting
	C. Science of palmistry	D. Art of making maps
93.	Who gave the famous quotations "The	child is father of the man".
	A. Alexander Pope B. Julius Caesar	C. Wordsworth D. Roseau

#### Entrance Materials Collection by Nepal Caesar 94. Which country is known as land of Kangaroos? A. India C. Australia D. New Zealand B. Japan 95. Which of the following book was not written by Diamond Shumsher Rana? B. Seto Bagh C. Anita **D.Mayur Times** A. Basanti 96. In cricket the length of pitch between the two wickets is A. 24 yards B. 23 yards C. 22 yards D. 21 yards 97. Nick name of New York city is B. Black sugar C. Small Apple A. Big Apple D. Nippon 98. Which famous painter's middle names were Diego Jose Fransico de Paula Juana Neponuceno Madrid de Los Remedios Cipriano de Santisima Trinidad Ruoz? A. Pablo Picasso B. Van Gogh C. Henri Rousseau D. Leonardo da Vinci 99. Which is the odd man out?

A. POKI B. MIEA C. SOKG D. YUQM

100. Which one of the following is a fast growing tree?

A. Teak B. Eucalyptus C. Banvan D. Coconut

<b>Answer B</b>	Kev:	Pract	ice T	est	1
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Tiuctice Test I				
18. A	35. A	52. D	69. D	86. D
19. B	36. B	53. C	70. D	87. B
20. A	37. A	54. B	71. A	88. C
21. B	38. B	55. C	72. B	89. B
22. B	39. C	56. B	73. A	90. C
23. A	40. B	57. C	74. D	91. D
24. C	41. B	58. B	75. A	92. B
25. C	42. A	59. B	76. B	93. D
26. C	43. C	60. D	77. A	94. A
27. C	44. B	61. D	78. C	95. A
28. C	45. C	62. A	79. D	96. A
29. D	46. B	63. D	80. B	97. A
30. A	47. A	64. B	81. A	98. B
31. C	48. C	65. B	82. B	99. B
32. B	49. D	66. D	83. C	100. C
33. C	50. B	67. A	84. A	
34. B	51. D	68. D	85. C	
	18. A 19. B 20. A 21. B 22. B 23. A 24. C 25. C 26. C 27. C 28. C 29. D 30. A 31. C 32. B 33. C	19. B 36. B 20. A 37. A 21. B 38. B 22. B 39. C 23. A 40. B 24. C 41. B 25. C 42. A 26. C 43. C 27. C 44. B 28. C 45. C 29. D 46. B 30. A 47. A 31. C 48. C 32. B 49. D 33. C 50. B	18. A       35. A       52. D         19. B       36. B       53. C         20. A       37. A       54. B         21. B       38. B       55. C         22. B       39. C       56. B         23. A       40. B       57. C         24. C       41. B       58. B         25. C       42. A       59. B         26. C       43. C       60. D         27. C       44. B       61. D         28. C       45. C       62. A         29. D       46. B       63. D         30. A       47. A       64. B         31. C       48. C       65. B         32. B       49. D       66. D         33. C       50. B       67. A	18. A       35. A       52. D       69. D         19. B       36. B       53. C       70. D         20. A       37. A       54. B       71. A         21. B       38. B       55. C       72. B         22. B       39. C       56. B       73. A         23. A       40. B       57. C       74. D         24. C       41. B       58. B       75. A         25. C       42. A       59. B       76. B         26. C       43. C       60. D       77. A         27. C       44. B       61. D       78. C         28. C       45. C       62. A       79. D         29. D       46. B       63. D       80. B         30. A       47. A       64. B       81. A         31. C       48. C       65. B       82. B         32. B       49. D       66. D       83. C         33. C       50. B       67. A       84. A

#### **Answers Key: Practice Test 2**

111011011	10,111111111111111111111111111111111111	-5			
1. D	18. D	35. A	52. D	69. C	86. A
2. D	19. C	36. B	53. A	70. C	87. D
3. A	20. D	37. C	54. D	71. B	88. C
4. D	21. D	38. B	55. D	72. C	89. D
5. D	22. B	39. C	56. C	73. D	90. D
6. C	23. B	40. C	57. B	74. B	91. D
7. C	24. B	41. B	58. C	75. A	92. C
8. A	25. D	42. D	59. D	76. B	93. B
9. A	26. B	43. C	60. A	77. D	94. B
10. A	27. D	44. A	61. A	78. A	95. B
11. D	28. C	45. B	62. C	79. C	96. B
12. C	29. C	46. D	63. A	80. A	97. A
13. A	30. D	47. A	64. C	81. B	98. A
14. D	31. B	48. B	65. D	82. C	99. C
15. B	32. C	49. D	66. B	83. B	100. D
16. A	33. D	50. B	67. C	84. B	
17. B	34. B	51. C	68. A	85. B	

#### **Answers Key: Practice Test 3**

1. C	18. D	35. D	52. D	69. A	86. C
2. B	19. A	36. B	53. A	70. D	87. A
3. C	20. D	37. b	54. D	71.	88. D
4. A	21. B	38. B	55. A	72. B	89. C
5. A	22. C	39. D	56. C	73. A	90. C
6. D	23. C	40. B	57. A	74. A	91. C
7. C	24. C	41. C	58. D	75. B	92. A
8. C	25. B	42. A	59. C	76. D	93. D
9. A	26. A	43. B	60. D	77. D	94. B
10. C	27. D	44. D	61. B	78. B	95. D
11. B	28. C	45. A	62. D	79. D	96. B
12. C	29. C	46. B	63. C	80. D	97. A
13. B	30. D	47. C	64. D	81. A	98. B
14. A	31. B	48. B	65. A	82. C	99. B
15. A	32. A	49. C	66. A	83. A	100. B
16. B	33. D	50. D	67. C	84. C	
17. A	34. A	51. A	68. B	85. C	

#### **Answers Key: Practice Test 4**

	,				
1. C	18. D	35. B	52. A	69. C	86. A
2. C	19. D	36. D	53. B	70. A	87. C
3. A	20. A	37. D	54. A	71. D	88. D
4. B	21. B	38. A	55. A	72. D	89. B
5. C	22. C	39. A	56. A	73. C	90. D
6. D	23. D	40. B	57. D	74. A	91. B
7. A	24. C	41. A	58. B	75. A	92. C
8. C	25. D	42. A	59. C	76. D	93. A
9. C	26. B	43. D	60. B	77. D	94. D
10. A	27. D	44. A	61. C	78. D	95. D
11. B	28. A	45. D	62. A	79. B	96. B
12. A	29. C	46. C	63. A	80. A	97. A
13. C	30. C	47. B	64. B	81. C	98. C
14. D	31. A	48. C	65. C	82. A	99. C
15. C	32. C	49. B	66. C	83. C	100. A
16. B	33. D	50. B	67. A	84. D	
17. A	34. D	51. C	68. C	85. A	

#### **Answers Key: Practice Test 5**

Allsweis Rey. Hactice Test 5						
1. C	18. A	35. D	52. C	69. C	86. C	
2. D	19. D	36. D	53. B	70. B	87. A	
3. B	20. B	37. A	54. C	71. D	88. D	
4. A	21. C	38. D	55. C	72. C	89. C	
5. B	22. C	39. B	56. C	73. D	90. A	
6. D	23. A	40. A	57. C	74. B	91. D	
7. D	24. A	41. D	58. B	75. D	92. D	
8. C	25. A	42. C	59. D	76. C	93. C	
9. D	26. D	43. C	60. B	77. A	94. C	
10. C	27. C	44. C	61. B	78. A	95. D	
11. B	28. B	45. B	62. D	79. C	96. C	
12. D	29. C	46. C	63. A	80. B	97. A	
13. B	30. A	47. D	64. D	81. A	98. A	
14. B	31. C	48. B	65. B	82. B	99. A	
15. C	32. B	49. D	66. C	83. B	100. B	
16. D	33. A	50. C	67. D	84. D		
17. C	34. D	51. B	68. C	85. C		