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Entrance Examination 2078 (2022) Bachelor of Information Technology (BIT)

Symbol No.:	Time: 75 minutes
In words:	Total Questions: 100

Encircle ' \circ ' the correct answer from the multiple choices.

(A) 145 (B) 80 (C) 65 (D) 15

2. If x + y = 10 and x - y = 11, then the value of $x^2 - y^2$ will be:,

(A) 21 (B) 20 (C) 22 (D) 110

3. Which of the following is a prime number?

(A) 9 (B) 8 (C) 4 (D) 2

4. Today is Monday. After 61 days it will be:

(A) Thursday (B) Sunday (C) Monday (D) Saturday

5. There are 30 girls and 20 boys in a class. The percentage of girls in the class is

(A) 60 (B) 90 (C) 75 (D) 30

6. A cap is bought for Rs. 200 and sold it for Rs. 240, what is the profit percentage(%)?

(A) 40 (B) 25 (C) 20 (D) 10

7. What is the area of a circle whose radius is the diagonal of a square of area of 4 cm^2 ?

(A) 2π (B) $2\sqrt{2}\pi$ (C) 4π (D) 8π

8. The Square root of $8^{\frac{2}{3}}$ is

(A) 3 (B) 2 (C) 4 (D) 8

9. Which one of the following options is odd in the list?

(A) 27 (B) 30 (C) 31 (D) 35

10. If A and B are the subsets of U and n(U) = 43, n(A) = 25, n(B) = 18 and $n(A \cap B) = 7$, then the value of $n((A \cup B)$ is:

(A) 7 (B) 36 (C) 43 (D) 30

11. If a + b = 5 and ab = 6, then the value of a^2-b^2 is:

 $(A) \ 6 \qquad (B) \ 5 \qquad (C) \ 10 \qquad (D) \ 12$

12. 20 men can do one work in 30 days. In how many days 80 men can finish the same work?

(A) 18 (B) 15 (C) 7.5 (D) None of these

13. If x and y are both odd numbers, then which one of the following is an even number?

(A) x + y (B) x (C) xy + 2 (D) 2x + y

14. If income of Ramesh is increased by 10% and later decreased by 10%, what is the changed percent (%)?

(A) 10 (B) 1 (C) 0 (D) none of these

15. What is the degree of the expression $x^4 + x^3y^3 + x^2y^2 + 7xy$?

(A) 4 (B) 3 (C) 7 (D) 6

16. If mean and median of a distribution are 10 and 11, what is its mode?

(A) 12 (B) 10 (C) 11 (D) 13

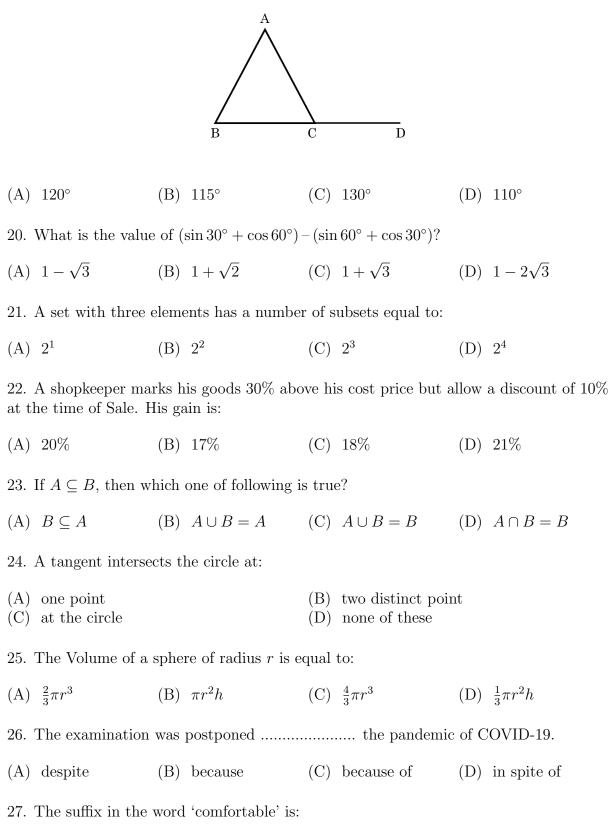
17. Solve the quadratic equation $x^2 - 2x = 0$.

(A) 0, 1 (B) 1, 2 (C) 0, 2 (D) -2, 0

18. A card is drawn at random from a well shuffled deck of 52 cards. What is the probability of getting a queen?

(A) $\frac{1}{52}$ (B) $\frac{1}{13}$ (C) $\frac{1}{4}$ (D) $\frac{1}{26}$

19. In the adjoint figure, if $\angle BAC = 50^{\circ}$, $\angle ABC = 60^{\circ}$, then the value of $\angle ACD$ is:



(A) -for (B) -table (C) -ibl (D) -able

28. What is the wor	d class of the word un	derlin	ed in the sentence	e: 'P	lease come <u>here</u> '?
(A) noun	(B) verb	(C)	adverb	(D)	adjective
29. The book I boug	ght yesterday is interes	sting.	I am interested $_$.		$_{-}$ reading it.
(A) on	(B) at	(C)	in	(D)	for
30. One of the stude	ents absent yest	terday	7.		
(A) was	(B) is	(C)	were	(D)	are
31. My grandfather	is (funny) my f	father			
(A) more funny that	n (B) funniest than	(C)	funnier than	(D)	the funnier than
32. We have already	finished our work. Its	s nega	tive form is:		
(B) We have not all(C) We do not have	y not finished our wor ready finished our wor a already finished our w nished our work yet.	k.			
33. My little sister l	ikes cartoons.				
(A) watch	(B) to watch	(C)	watches	(D)	watching
34. If you boil water	; it				
(A) will evaporate	(B) evaporates	(C)	would evaporate	(D)	evaporated
35. Had Sam invited	l me, I his part	y.			
(A) attend(C) would have attend	ended	(B) (D)	will attend would attend		
36. 'I am extremely sorry.' He says that					
(A) he is extremely(C) he was extreme			I am extremely s he has been extr		y sorry
37. Ryan his key. He is still searching it.					
(A) loses	(B) has lost	(C)	lost	(D)	had lost
38. They adopted an orphan as heir.					
(A) a	(B) an	(C)	the	(D)	no article

39. My mother	me to work for her.				
(A) gets	(B) has	(C) makes	(D) help		
40. Which of the fol	lowing words is the syn	nonym of 'military'?			
(A) navy	(B) civil	(C) servant	(D) coup		
41. I am looking for	ward to your re	sponse as soon as pos	sible.		
(A) hear	(B) being heard	(C) is hearing	(D) hearing		
42. This book is	·				
(A) my	(B) mine	(C) our	(D) me		
43. Nobody speaks l	English,?				
(A) don't they	(B) doesn't they	(C) do they	(D) did they		
44. He is an introver	t. He has got very	friends.			
(A) few	(B) little	(C) many	(D) much		
45. Nelson Mandela	joined the ANC in the	e 1930s he was	a student.		
(A) where	(B) what	(C) who	(D) when		
46. She be at	work because she alw	ays works at this time).		
(A) may	(B) might	(C) can	(D) must		
47. 'I hate people cr	iticizing me.' Its passi	ve is:			
(A) I hate people b(C) I hate being cri	eing criticized for me. ticized.	()	ticized me. een criticized by people.		
48 handwriting is handwriting that cannot be read.					
(A) Illegible	(B) Legible	(C) Eligible	(D) Illegal		
49. Which of the following words is the synonym of 'courteous'?					
(A) tyranny	(B) brave	(C) polite	(D) candid		
50. Which of the following words is the antonym of 'slump'?					
(A) rise	(B) plunge	(C) tumble	(D) plummet		

51. $NaHCO_3$ is a					
(A) basic compound(C) amphoteric com		(B) acidic compound(D) neutral compour			
52. Atomic number	of calcium is				
(A) 21	(B) 20	(C) 31	(D) 30		
53. 100% pure ethan	nol is called				
(A) Rectified sprit(C) Absolute alcoho	ol	(B) Denatured alcohol(D) Power alcohol	ol		
54. 37 degrees Celsiu	us is equal to				
(A) 98.6 degrees Fa(C) 37.6 degrees Fa		(B) 58.6 degrees Fab(D) d) 100 degrees F			
55. Which one of the	e mixtures is homoge	neous?			
 (A) Starch and suga (B) Ethanol and wa (C) Charcoal and sa (D) Calcium carbor 	ater	rbonate			
56. Which one does	not contain carbonyl	group?			
(A) Aldehyde	(B) Carboxyl acid	(C) Ketone	(D) Methanol		
57. Electromagnetic	radiation with maxim	num wavelength is:			
(A) Ultraviolent	(B) Radio waves	(C) X-ray	(D) Infrared		
58. X-ray cannot pa	ss through:				
(A) Wood	(B) Flesh	(C) Glass	(D) Bone		
59. Which of the for prism?	ollowing color of whit	e light deviated most	when passes through a		
(A) Red light	(B) Violet light	(C) Yellow light	(D) Both (A) and (B)		
60. The instrument used for measuring electric current is:					
(A) Ammeter	(B) voltmeter	(C) Potentiometer	(D) Wattmeter		
61. Sound energy is converted into electrical energy in:					
(A) Loudspeaker	(B) Microphone	(C) Sonometer	(D) Radio		

62. The color of light	t is determined	by its:				
(A) Wavelength	(B) Frequence	cy (C)	Speed	(D)	Amplitude	
63. Lichen is a composite combination of two organisms:						
(A) Algae and fung(C) Fungi and fern	i	(B) (D)	Algae and bryc Fungi and bryc	- •		
64. Sand and cample	or can be separ	rated by:				
(A) Steam distillation(C) Chromatograph		(B) (D)	Fractional dist Sublimation	illation	L	
65. Which of the fol	lowing is not u	nit of time?				
(A) Leap year	(B) Solar day	y (C)	Light year	(D)	Debye	
66. With the rise in	temperature, s	urface tensio	n:			
(A) Increases(C) Remain the same	ne	(B) (D)	Decreases Becomes zero			
67. The sky looks b	lue due to:					
(A) Dispersion effect	et (B) Reflectio	n (C)	Transmission	(D)	Scattering	
68. Heat travels three	ough vacuum by	y:				
(A) Convection	(B) Radiatio	n (C)	Conduction	(D)	All of the above	
69. Photosynthesis occurs in:						
(A) Nucleus	(B) Mitochon	ndria (C)	Chloroplast	(D)	Peroxisome	
70. Which of the following is not found in animal cell?						
(A) Mitochondria	(B) Golgi bo	dy (C)	Nucleus	(D)	Chloroplast	
71. Which of the following blood vessels contains impure blood?						
(A) Renal artery(C) Pulmonary arte	ery	(B) (D)	Femoral artery Hepatic artery			
72. Which of the following solution is more acidic?						
(A) $pH=2$	(B) $nH=14$	(\mathbf{C})	pH=7	(D)	pH=5	

(A) pH=2 (B) pH=14 (C) pH=7 (D) pH=5

73. Methane contributes towards global warming so it is called a gas (A) Poisonous (B) Infectious (C) Greenhouse (D) Carcinogenic 74. Milk is an example of a: (A) solution (B) mixture (C) suspension (D) emulsion 75. The weight of any body is: (A) more on equator (B) maximum at poles (C) same at every place on earths surface (D) more on mountain than in planes 76. Name the Scientist who stated that 'matter can be converted into energy'. (A) Boyle (B) Einstein (C) Galileo (D) Avogadro 77. Which of the following device is fully duplex? (A) Walky-talky (B) Radio (C) Mobile phone (D) Loud speaker 78. Which one among the following statement is true? (A) All proteins are enzymes. (B) All enzymes are proteins. (C) None of the enzymes is protein. (D) None of the proteins is enzyme. 79. Which of the following is not a viral disease? (A) Malaria (B) Influenza (C) Common cold (D) Covid-19 80. Full form of HIV is: (A) Human immune deficiency virus (B) Human inverted virus (C) Human immune depressive virus (D) Human infectious virus 81. Dolphins are classified under: (A) Mammals (B) Reptiles (C) Amphibians (D) Pisces 82. Altitude sickness is due to: (A) high concentration of oxygen (B) low concentration of oxygen (C) low concentration of carbondioxide (D) low concentration of nitrogen 83. Scientific name of Amala is (A) terminalia chebula (B) terminalia bellirica (C) emblica officinalis (D) emblica chebula

84. The study of fossils is called:

(A) taxonomy	(B) physiology	(C) anatomy	(D) paleontology		
85. Which one of the following is not fat-soluble vitamin?					
(A) Vitamin C	(B) Vitamin A	(C) Vitamin D	(D) Vitamin E		
86. Which of the following the	lowing is a common in	put devices?			
(A) keyboard	(B) monitor	(C) printer	(D) all		
87. CPU is an exam	ple of:				
(A) hardware	(B) software	(C) program	(D) output unit		
88. Computer system	n is composed of:				
(A) input device	(B) output device	(C) processor	(D) all		
89. Which of the following the	lowing is a primary me	emory?			
(A) Hard disk	(B) Pen drive	(C) RAM	(D) All		
90. MS word and M	S Excel are :				
(A) operating system(C) system software		(B) application soft(D) high level lange			
91. Junk Email is also called as:					
91. Junk Email is al	so called as:				
91. Junk Email is al(A) spam	so called as: (B) spoof	(C) spool	(D) sniffer script		
(A) spam		· / -	(D) sniffer script		
(A) spam	(B) spoof	· / -	(D) sniffer script(D) android screen		
(A) spam92. Name of the screen(A) recog screen	(B) spoof een that recognizes tou	(C) touch screen			
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 (A) spam 92. Name of the screen (A) recog screen 93. Bluetooth is a 	 (B) spoof een that recognizes tou (B) point screen communicat (B) wireless 	(C) touch screenion technology.	(D) android screen		
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 (A) spam 92. Name of the screen (A) recog screen 93. Bluetooth is a (A) wired 94. Eight Bits make (A) byte 	 (B) spoof een that recognizes tou (B) point screen communicat (B) wireless up a: 	 (C) touch screen ion technology. (C) both (C) kilobyte 	(D) android screen(D) none		

96. What do you call a computer on a network that requests files from another computer?

(A) A client	(B) A host	(C)	Router	(D)	Web Server	
97. Google (www.google.com) is a:						
(A) search engine(C) directory of images			number in math chat service on •		eb	
98. "WWW" stands for:						
(A) World Wide Web(C) World Wide Wait			World Wide Wa World Wide Wi			
99. ISP stands for:						
 (A) Internet Survey Period (B) Integrated Service Provider (C) Internet Security Protocol (B) Integrated Service Provider 						
100. Which of the following is social media service?						
(A) Facebook	(B) Instagram	(C)	Twitter	(D)	All	
All the best !!!						