

Entry Test Question Paper Department of Computer Science

Kabul Fall 2023

Directions: Please solve all the two mark. Transfer the correct answer to your answer sheet. Section One – Mathematics 64 Marks (Forty Minutes) 32 questions in this section, every question has

1.	The simplified form of the e	xpression $50 \div 10 * 5 - 2$	5 =
	A. 0 B. 24	C. 24	D. 50
2.	The simplified form of the e	xpression $4(x+2) +$	3(x+6) =
	A. $10x + 5$ B. 72	x + 26 C. $9x + 18$	D. 6 <i>x</i> + 2
3.	The solution of linear equat	ion $7x - 3 = 5x + 9$ <i>is</i>	
	A. 10 B. 1	1 C. 15	D. 6
4.	The solution of the inequality	ty expression -2x +1 > 5 is eq	ual to
	A. X<-2 B. X>	2 C. X<2	D. X>-2
5.	The solution of the inequali	ty expression -5(x-1) < 10 is e	equal to
	A. X>1 B. X<	<1 C. X> -1	D. X<-1
6.	The difference square form	ula a²-b²=	
	A. (a+b)(a – b) B. (a	a+b)(a + b) C. (a–b)(a – b)	D. None of them
7.	The factorization of the exp	ression x^2 - 4 =	
	A. (x-2)(x-2) B. (x-2)(x+	2) C. (x+2)(x+2)	D. None of them
8.	The group factorization of t	he expression $ab^2 - 4b^2 + 3a$	- 12 =
	A. (a – 4)(b ² +3) B. (a +	4)(b^2 +3) C. (a – 4)(b^2 - 3) D. (a + 4)(b ² - 3)
9.	The group factorization of t	he expression $x^2 - x + 5x - 5$	=
	A. (x +1)(x + 5) B. (x -1)	(x + 5) C. (x -1)(x - 5)	D. (x + 1)(x - 5)
10	. If the whole power of the al	gebraic expression become	zero, then the result is equal to
	A. 0 B. 1	C1	D. None of them
11	. The simplified form the exp	ression 10^{-3} . $10^2 =$	
		0 C. 1/10	D1/10
12	. The simplified form of the e	xpression (100 a ¹² b ⁶ /50 a ¹¹	b ⁵) ²
			D. $-4a^2b^2$
13	. The simplified form of the e	xpression (x^{12} / x^{10}) ⁻¹	
	A. X ⁻² B. X ²	C. X ²²	D. X ⁻²²
14	. When solving $\sqrt{-4}$ the poss	ible answer is	
15	A. 2 B2 . The solution of radical equa	C. No real solution tion $\sqrt{2x-5}$ =7 is	D. None of them

	A. 27 B. 54 C. 19/2	D19	/2			
16.	16. The solution of radical equation $\sqrt{x-1}$ = -1					
17.	A. 2 B2 C. 0 7. The solution of $x^2+4 = 0$ is	D. None c	of them			
	A2 B. 2 C. ±2i	D. None of	them			
18.	 If Discriminant b²-4ac <0 then 					
	A. The equation has two nonzero complex so	olution				
	B. The equation has one real solution					
	C. The equation has two real solution					
	D. None of them					
19.	 Quadratic equation is always of 					
	A. 2 nd degree equation B. 1 st degree equation	on C. 3 rd degree equa	tion D. None of them			
	20. The equation in which the power of variab	ole is one is called				
	A. Linear equation B. Quadratic equation	C. Constant equation	D. Identity equation			
	21. The graph of linear equation always repre	sents				
	A. A straight-line B. A Parabola C	C. A Curve D. I	None of them			
	22. Which of the following is true for x-interce	ept and y-intercept res	pectively?			
	A. (-x, 0) and (0, y) B. (x, 0) and (0, -y)) C. (x, 0) and (0, y)	D. (0, 0) and (0, y)			
	23. The graph of x=2 is always represents					
	A. Horizontal line B. Vertical line	C. Non-vertical line	D. None of them			
	24. The graph of y=2 is always represents					
	A. Horizontal line B. Vertical line	C. Non-vertical line	D. None of them			
	25. The distance between the points (2,3) and	d (5,7) is				
	A. 5 B5	C. 3	D. 0			
	26. The Slope between the points (4, -2) and ((-1, 5) is				
	A. 7/5 B7/5	C. 5/7	D5/7			
	27. Two lines are said to be parallel if their slo	opes				
	A. m1 = m2 B. m1 ≠ m2	C. m1>m2	D. m1<.m2			
	28. Two lines are said to be Perpendicular if the second sec	heir slopes				
	A. m1 = m2 B. m1.m2=1	C. m1.m2= -1	D. None of them			
	29. Which of the following set of order pairs r	-				
		{(1,4), (1,5), (1,9)}				
		(1,4), (3,5), (10,9)}				
	30. A function which is defined in the form f(x					
	A. Constant function B. Identity function	C. Linear function	D. Both "A" and "C"			

	A.	A straight	line B.	Hyperbola	C. Parab	ola	D. Nor	e of them
32.	The	solution of	f logarithmic	equation Lo	g ₁₀ x + Log ₁₀ (x+	-9) = 1 is		
	A.	x=1 only	B. x= -1	•	Both "A" and Two – Logic	1 "B"	D. None	e of them
					Forty Minutes)		
			32 0	•	nis section, eve		n has	
					,	,		
33.	Wh	at is the mi	ssing letter	in the sequer	nce A, C, E, G,	_?		
		a) H	b)	1	c) J	d) K		
34.		plane crasł y the surviv		order betwee	en Canada and	d the Unite	d States	, where do they
		a) Canad		-	ou don't bury)	/ survivors	d) N	one
	a) P	encil	b)	Cup	c) Bottel		d) All o	f them
36.			-	you but can'			,	
		a) Future		<i>.</i> Time		ay d) Nigł	nt	
37.	lf y	ou have or	-		room with a l			andle, and a
	fire	eplace, whi	ch do you lig	ght first?				
		a) Lamp	b)	Candle	c) Fi	replace	d) Mat	ch
38.	Wł	nat is black	when it's cle	ean and white	e when it's dir	ty?		
		a) Paper	b) Cł	nalkboard	c) M	arker-boa	rd	d) None 39. W
		has a ł	nead and a t	ail but no bo	dy?			
ā	a) Co	oin	b) Ant		c) Spic	ler	d) Dog	40. What
			-	out is not aliv				
i	a) H	uman	b)	Bird	c) Animal		d) Glov	e
41.	Wh	at starts wi	th a T, ends	with a T, and	has T in it?			
	a) S	start	b) Target	c) Teapo	t d) All 42. Wh	nat goes up)	
but	nev	er comes d	own?					
	-	Lift	b) Plane	c) Age		d) None		
43.				30, 28, 24,	. What numbe			t?
		22	b) 20		c) 23	c	l) 26	
				long with the				
) Tye		b) Engine		c) Steering V	Vheel	d) Car	
45.	Cup		e as bowl is					
	_	a) Dish	b) Soup		c) Spoon	d) Foo	d	
	Sele		ngly spelt w					
46.		a) Calanda			Caroor	Ь) Sewing	
	- '	-	r b) Stream		on the am			

brother of Suresh. How is Jia related to Mahesh?

a) Daughter-in-law b) Cousin c) Sister-in-law d) Sister 49. The day before yesterday was Saturday. What day will it be the day after tomorrow? a) Sundav b) Mondav c) Tuesday d) Wednesday 50. A book always has _ a) Story b) Content c) Pages d) Binding 51. Complete the following series with correct number 32, 34, 36, _____, 40 a) 37 b) 38 c)39 d)41 52. If you have a bowl with six apples and you take away four, how many do you have? a) 2 b) 4 c) 6 d) 3 53. What breaks and never falls, and what falls and never breaks? b) Wall c) Cement d) Day breaks and night falls a) Paper 54. What goes up and down, but always remains in the same place? a) Time b) Day c) Stairs d) None 55. What is the difference between yesterday and tomorrow? b) Today c) Day before yesterday a) Day after tomorrow d) All 56. Where is an ocean with no water? a) America b) Africa c) Asia d) On a map 57. A police department purchases badges at 16-Afs each for all the graduates of the police training academy. The last training class graduated 10 new officers. What is the total amount of money the department will spend for badges for these new officers? a) 70-Afs b) 116-Afs c) 160-Afs d) 180-Afs 58. What is found necessarily in desert? a) Sand b) Watermelon c) Camel d) Wind 59. A river always has a) Fished b) Boat c) Banks d) Bridges 60. My Ten years old nephew is taller than my Twelve years old son a) Always b) Never c) Often d) Sometimes 61. What provides the strength and power to walk through walls? d) None a) Door b) Boots c) Stairs 62. What do you always see at the beginning of a paper? a) Lines b) Numbers c) P d) Dots 63. How can a woman go eight days without sleep? a) Sleeps before b) Sleeps at night c) Sleeps after d) None 64. What type of hair does an ocean have? a) Curly b) Brown c) Wavy d) All

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Section Three – General Knowledge 64 Marks (Thirty Minutes) 32 questions in this section, every question has

65. Which river is the longest in Afghanistan? A) Amu Darya B) Kabul River C) Helmand River D) Hari Rud 66. Afghanistan shares its longest border with which country? A) Iran B) Pakistan C) Tajikistan D) China 67. The historical Buddha was born in which modern-day country? A) India B) Nepal C) Sri Lanka D) Afghanistan 68. What mountain range forms a natural barrier between Afghanistan and Pakistan? A) Himalayas B) Hindu Kush C) Karakoram Range D) Pamir Mountains 69. Which ancient trade route passed through Afghanistan connecting the East and West? A) Silk Road B) Spice Route C) Incense Route D) Amber Road 70. Which Afghan king is known as the "Father of the Nation" and modernized the country in the 20th century? A) Ahmad Shah Durrani B) Amanullah Khan C) Habibullah Khan D) Sher Ali Khan 71. The famous ancient statues, destroyed in 2001, were located in which Afghan city? A) Herat B) Mazar-i-Sharif C) Kabul D) Bamiyan 72. What is the national sport of Afghanistan? A) Football (Soccer) B) Buzkashi C) Cricket D) Wrestling 73. Afghanistan was never colonized by which European colonial power? A) United Kingdom B) France C) Russia D) Austria 74. In which month does Ramadan, the Islamic holy month of fasting, usually occur? A) Shawwal B) Dhul-Hijjah C) Ramadan D) Safar 75. What is the national flower of Afghanistan A) Tulip B) Lilly C) Rose D) Poppy 76. Afghanistan was a monarchy until 1973 when a coup led to the overthrow of the king. Who was the last Afghan king? A) Zahir Shah B) Mohammed Nadir Shah C) Mohammed Zahir Shah D) Habibullah Khan 77. The famous ancient city of Herat, known for its rich cultural heritage, is located in which

region of Afghanistan?

A) Central Afghanistan B) Eastern Afghanistan C) Western Afghanistan	
D) Northern Afghanistan	
78. Which of the following is not an Afghan dish?	
A) Mantu B) Qorma C) Biryani D) Bolani	
79. Afghanistan has a rich tradition of storytelling through oral poetry. What is this form of	f
poetry called?	
A) Ghazal B) Qasida C) Tappa D) Dehqan	
80. The famous ancient city of Balkh, also known as Bactra, is considered one of the oldest	,
cities in the world. In which province is it located?	
A) Balkh Province B) Herat Province C) Kabul Province D) Kandahar Province	
81. The Minaret of Jam, a UNESCO World Heritage Site, is an ancient Islamic monument	
located in which province of Afghanistan?	
A) Badghis Province B) Faryab Province C) Herat Province D) Ghor Province	
82. What is the traditional Afghan footwear, often made of leather and worn by both men	
and women?	
A) Sandals B) Clogs C) Loafers D) Peshawari Chappal	
83. Which famous Afghan female artist became the first woman to represent Afghanistan	
in the Olympics in 2004?	
A) Kubra Ali B) Tahmina Kohistani C) Robina Muqimyar D) Friba Razayee	
84. Afghanistan is divided into how many provinces?	
A) 26 B) 28 C) 30 D) 34	
85. The ancient city of Kandahar was a significant center along which historical trade route	?
A) Silk Road B) Spice Route C) Incense Route D) Trans-Saharan Trade Route	
86. The Afghan New Year, also known as "Nawruz," is celebrated on which day?	
A) March 21 B) April 1 C) May 1 D) June 21	
87. What is the traditional Afghan dance performed on joyous occasions, often involving	
twirling movements and colorful dresses?	
A) Attan B) Kathak C) Bhangra D) Ghoomar	
88. Which famous ancient fortress, also known as the "Red City," is a UNESCO World	
Heritage Site located in Afghanistan?	
A) Qalat-i-Ghilzai B) Qila-e-Bost C) Citadel of Herat D) Arg-e-Bam	
89. Which province of Afghanistan is known as the "Garden of Afghanistan" for its fertile	
agricultural land?	
))
Kunduz Province	
90. Afghanistan is a landlocked country, bordered by how many countries?	
A) 4 B) 6 C) 8 D) 10	
91. The Khyber Pass, an important historical and strategic route, connects Afghanistan with	n
which country?	
A) India B) China C) Pakistan D) Iran	
92. What is the Largest lake in Afghanistan?	
A) Hamun-e-Sabari B) Band-e-Amir C) Hamun-e-Hilmand D) Sabera	
93. The famous 6th-century Buddha statues in Bamiyan were carved into which type of rock?	
A) Limestone B) Granite C) Sandstone D) Marble	+
94. What is the traditional Afghan Music Instrument, a type of Tambourine, often played a wedding and celebration?	ι
A) Rabab B) Harmonium C) Dholak D) Daira	
	_

Directions: Please solve all the two mark. Transfer the correct answer to your answer sheet.									
95. What is the traditional Afghan wrestling sport, also known as "the sport of heroes"?									
	A) Kushti B) Taekwondo C) Sumo D) Karate								
96.	96. In which year did Afghanistan gain independence from British influence and establish								
full sovereignty?									
	A) 1919	B) 1947	C) 1963	D) 1978					

Section Four – English Language 64 Marks (Forty Minutes) 32 questions in this section, every question has

97. Ali abstained ______ school. b. from a. at c. to D: for 98. She was charged ______ stealing the money. b. for a. with c. of D: from 99. The police will inquire ______ the matter. a. in b. about c. into D: above 100. Allah has bestowed many comfort ______ us. a. upon b. to c. for D: at 101. _____ is the best policy to overcome. b. the honesty c. the integrity a. honesty D: Honest 102. She will receive ______ at the film fare ceremony for her best performances. a. a special honor b. honor c. special honor D: honored 103. Farhad gave ______ to his dog. c. some bone D: few bones 104. She a. bone b. some bones needs to buy _____ of corn. a. two pieces b. two ears c. two claps D: two piece 105. This train is bound _____ India. b. at c. with a. for D: from 106. I wish I ______a singer. A: were B: was C: can be D: will be ______ that we can't afford to purchase it. 107. It is ____ A: such expensive car B: such an expensive car C: so expensive car D: so car Neither Ahmad nor Shaker ______ a musical instrument at school. 108. A: B: are playing C: plays D: were playing play 109. Yama wishes that he ______ his friend to the movie which he didn't like.

B: has been taken C: hadn't taken A: has taken D: took 110. If I had your address in Kabul, I you many letters. A: would have written B: would write C: wrote D: will write 111. Both Tameem and Arash ______ beautifully. B: sing C: is signing A: sings D: was signing 112. Henna is late. When do you expect her to arrive? She at 2:00. A: might be arriving B: might be arrive C: should be arriving D: should be arrived 113. If we ______ her, she would have stayed for dinner. A: have asked B: has asked C: asked D: had asked 114. She will get used to ______with her aunt in Kabul. C: lived B: to living D: living A: live 115. Idress is caught ______ in Afghanistan history studies. A: with B: up C: about D: of 116. Shakeel is going to his favorite fantasies in the next dramas. A: acting out B: act out C: to act out D: acted out 117. Diana, ____ is a new actress, is going to be known soon because of her best performance. B: who A: which C: that D: whom 118. People applied for the job. I'm sure I will get a job. A: such a few B: such few C: so few D: so a few 119. Next year Tahir is going to travel around the world unless the air fare A: is expensive B: is cheap C: isn't expensive D: is reasonable 120. I phoned my friend. He wasn't at home so, he_____ A: might has gone B: might have went D: might have gone 121. C: went You must bend ______ backwards to earn much money. A: over B: about C: on D: in 122. Don't you know that the problems of safety in every one's home______ by the Mayer. A: is discuss B: should discuss C: should be discussed D: is discussed 123. I that he is going to come as soon as you can expect. A: thinks B: am thinking C: think D: was thinking 124. There are _____ in this article. It is difficult to remember them. A: so many words B: so much words C: so a few words D: so little vocabulary 125. Is it simple to catch ______what the instructor says? C: on A: about B: in D: none of them 126. When I started working as a manager, I promised ______ the best service I could do. C: give A: to give B: giving D: gave 127. Try to avoid ______cigars. A: to smoke B: smoke C: smoking D: smoked 128. Sheema in IRC School for a long time, but then she was transferred in Amani High School. A: had been teaching B: has been teaching C: has taught D: is teaching Directions: Please solve all the two mark. Transfer the correct answer to your answer sheet.

Section Five – Sciences 64 Marks (Thirty Minutes)

32 questions in this section, every question has

Directions:

Directions	•	5.	2 questions in this	Section	i, every question	i nus	
129.	Wh	ich of the followi	ing is not an Alloy	?			
		Brass	B. Solder		ronze	D. Silver	
130.	Isot	onic solution are	e the solutions hav				
			B. Concentr	-		essure	D. Viscosity
131.			hich contains only		•		,
	•	an element	, B. a compoun	•			D. a liquid
132.	The	density of wate	•				
	Α.	Equal to that of	ice	B. Le	ss than that of i	ce	
	В.	C. Greater than	that of ice	D. All	are possible 133	3. Which o	of the following
is	a hor	nogeneous mixt	ure?				
А.	Oil a	nd Water	B. Sugar and Wate	er C.	Salt and Sulphu	r	
D.	Soc	lium chloride and	d Iron filings				
134. I	Home	ogeneous mixtur	e of two or more	than tv	vo compounds i	s called	
	Α.	Solution	B. Compound		C. Radica	al	D. lon
135. I	Numl	ber of moles in 1	kg of solvent is ca	alled			
	Α.	Normality	B. Molarity		C. Molality		D. Mole
fra	action	า					
136. (Gase	s deviate from id	eal behavior beca	iuse mo	olecules		
	Α.	are colorless	B. are spheric	al	C. attract each c	other D	. have high
•	eeds						
137. \		-	on can be removed				
		Drying	B. Heating		Evaporation	C). All the above
138. (•	r a long-time deca	•		-	
		Animals	B. Fossils		Wood		All the above
139. 1			ing layer of atmos	-			-
1.4		Troposphere hat is the cause	•		C. Mesosphere		D. Photosphere
			ary wavelets	D	Pofloction of priv	mary way	lota
		-	ary wavelets		terference of se	-	
			owing is similar be				
171.			tractive or repulsi				
	В.		nds on the mediu		een the hodies		
	С.	-	are strong forces		cent the boules		
	-		ly proportional to		stance between	the bodies	5
142. I			under which the				
		rm magnetic fiel			0 0	0	
		-	θ = 1800	C.	θ = 00	D.	θ = 360ο
143. \	What	is the space aro	und a current-car	rying co	onductor, in whi	ch its mag	netic effect can

143. What is the space around a current-carrying conductor, in which its magnetic effect can be experienced called?

Please solve all the	two mark. Transfer
the correct answer to your answer sheet.	
A. Electric field B. Magnetic pole C. Magnetic field	D. Charge
distribution	
144. Unit vector n^ is along	
A. X-axis B. Normal on a surface C. Y-axis	D. Z-axis 145. What
is the net electrostatic field in the interior of a conductor?	
A. Positive B. Negative C. Zero D. Depends on the	nature of the conductor
146. What is the force exerted by a stationary charge when it i	s placed in a magnetic
field? A. Zero B. Maximum C. Minimum D. Depends o	n the strength of the
magnetic field	
147. If a body a mass of 2 kg is raised vertically through 2m, th	en the work done will be
A. 38.2 J B. 392.1 J C. 39.2 J	D. 3.92 J
148. Identify the condition under which the force acting on a c	harge moving through a
uniform magnetic field is minimum.	
A. $\theta = 900$ B. $\theta = 1800$ C. $\theta = 2700$	D. θ = 340o
149. Which among the following is false?	
A. Coulomb force is a weak force B. Coulomb force is	a central force
C. The force between two charges depend on the medium b	between them
D. The net force on a charge is the vector sum of the forces	acting on it due to several
other charges	
150. DNA is stored in which of the following cell organelle?	
a. Cell wall b. Cell Membrane c. Nucleus d.	Cytoplasm
151. Which of the following organisms doesn't have a cell?	
a. Virus b. Bacteria c. Fungi d. Algae	
152. RNA is present in which of the following cell organelles?	
	Cytoplasm and Golgi
complex 153. Which of the following cell is found in the brain?	
	. Epithelial cell
154. Which of the following is the process of synthesis of glucos	
a. saccharification b. glycolysis c. gluconeogenesis d	-
155. Which of the following is not a component of cell membra	nes?
a. Phosphotriglycerides b. Cholesterol	
c. Sphingolipids d. Phosphodiglycerides	
156. Which of the following cells do not lack the ability to divide	
a. red blood cells b. muscle cells c. skin cells	d. nerve cells
157. Loss of appetite due to the fear of becoming obese is	
a. Anorexia nervosa b. Bulimia nervosa c. Piles	d. Dyspepsia 158.
Co-ordination in man is brought about by?	
	d. none of these. 159.
In which of the following pigments major energy reserves and c	•
	d. Chrysophyta 160. The
only group of algae having no flagellated motile cells at any stag	ge is?

a. Chrysophyta b. Phaeophyta c. Pyrrophyta d. Rhodophyta