Test Booklet No		
This booklet consists of 100 questions and 19 printed pages.		
RGUCET/2024//_	a •	_ N
DOLIGET 2024	Series	I'

RGUCET 2024 Common Entrance Test, 2024

POST GRADUATE DIPLOMA (GEOINFORMATICS)

Full Mark	s: 100		Time: 2 Hours		
Roll No.					
Day and Da	ate of E	xaminati	on:		· · · · · · · · · · · · · · · · · · ·
Signature o	of Invigi	lator(s) _			
Signature o	of Candi	date		 	
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General Instructions:

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

- 1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- 2. Candidate must write his/her Roll Number on the space provided.
- 3. This Test Booklet contains 100 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark. There shall be negative marking of 0.25 against each wrong attempt.
- 4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
- 5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall within one hour thirty minutes.
- 6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
- 7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
- 8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
- 9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	In the sentence, "She had been studying for hours," what is the tense of the verb "studying"?					
	a) present	b) past	c) future	d) past perfect continuous	Ans d	wer
2	Match the word v					
	A Ephemeral		i kind- hearted		Ans	
	B Benevolent		ii hungry		optio	
	C Ubiquitous		iii Everywhere		(a,b,	c or
	D Voracious		iv Temporary		(u)	
	a) A-iv, B-	b) A-iii, B-i, C-	- c) A-iii, B-ii,	d) A-i, B-iii, C	- Ans	wer
	i, C-iii, D-ii	iv, D-ii	C-i, D-iv	ii, D- iv	a	
3	A "She served the B "With a smile, C "Quickly, he fin	owing sentences c cake on a plate the cat approach nished his home	contains a misplace covered with choco ed the friendly dog. work before dinner.' is meal in the kitche	late."	Ansoption (a,b, d)	on
	a) A & B	b) Only A	c) B& C	d) A,B & C	Ans ^x	wer
4		l Justification (Bovided below: ople prefer weari	•		Ansoption (a,b, d)	on
	a) Both A and B are true. B is the correct explanation of A.	b) Both A and B are true but I is not the correct explanation of A	c) A is false but B is true	d) Both A and are false	Ans c	wer
5	sequence and the the alternatives produced 1. Atomic Age 2.	n choose the mo rovided below ea Metallic Age 3.	Stone Age 4. Alloy	ence from amon	gst optio (a,b, d)	on c or
	a) 1,2,4,3	b) 3,2,4,1	c) 4,3,2,1,	d) 3,1,2,4	Ans b	wer
6	Direction: An idiomatic expression/ a proverb has been given, followed by some alternatives. Choose the one which best expresses the meaning of the given idiom/ proverb. Proverb: "To take the bull by the horns"					
	a) To punish a person severely for his arrogance	b) To grapple courageously with a difficulty that lies in our way.	c) To handle it by a fierce attack	d) To bypass t legal process and take action according to one's own whims.		wer
7	Match the words A. Amuse	with their antony	yms. i. Biased		Ans	

	B. Affirmative		ii. Bore		(a,b,c or		
	C. Impartial		iii. Unaware		d)		
	D. Insightful		iv. Negative				
	a) A -iii, B-iv, C-i, D-ii	b) A-iv, B-iii, C-i, D-ii	c) A-ii, B-i, C-iv, D-iii	d) A-ii, B-iv, C-i, D-iii	Answer d		
8	Read each sentence to find out whether there is any grammatical error in it. The error, if any will be in one part of the sentence. The latter of that part is the answer. If there is no error, the answer is 'D'. A. an Indian ship B. laden with merchandise C. got drowned in the Pacific Ocean D. No error						
	a) A	b) B	c) C	d) D	Answer c		
9	II. An assumption to consider the which of the assumption of Rs. 1 lakh to accidents. Assumption I: T due to compensar	n is something supstatement and the imptions is implicated government has detected family members. The government has tion.	ed by two assumption proposed or taken for the following assument in the statement. The ecided to pay composers of those who are as enough funds to the ecidents of the eciden	granted. You have ptions and decide ensation to the tune to killed in railway meet the expenses	Answer option (a,b,c or d)		
	a) If only assumption I is implicit	b) If only assumption II is implicit	c) If neither I nor II is implicit	d) If both I and II are implicit	Answer a		
10	Choose the interj	ection in the sentent amazing perform	ence:		Answer option (a,b,c or d)		
	a) was	b) an	c) wow	d) that	Answer		
11	Which of these plants is important in sericulture?						
	a) Cassia	b) Legumes	c) Pea	d) Mulberry	Answer d		
12	The father of Ind	ian missile techno	ology is	?	Answer option (a,b,c or d)		
	a) Dr. Homi Bhabha	b) Dr. Chidambaram	c) Dr. U.R. Rao	d) Dr. A.P.J. Abdul Kalam	Answer d		
13		_	celebrated in Andhi elebrated in Nagala		Answer option (a,b,c or d)		

	a) Statement A	b) Only A is	c) Only B is	d) None A or B	Answer			
	& B both are	true	true	is true	a			
14	Assertion (A): Or	 n 26th Ianuary 1	 950 the Indian Con	 stitution_came	Answer			
11	Assertion (A): On 26th January, 1950, the Indian Constitution came into force. Reason (R): 26th January is celebrated as the Republic Day.							
	a) Both A and R	b) Both A and	c) A is true but	d) Both A and R				
	are true and R is	R are true but I	R R is false	is false.				
	the correct	is not the			Answer			
	explanation of	correct			b			
	A.	explanation of A.						
15	Match the correct							
					Answer			
	A. Jim Corbett 1		i. Uttar Pradesh		option			
	B. Dudhwa Nati		ii. Uttrakhand		(a,b,c or			
	C. Silent Valley		iii. Tripura		d)			
	D. Bison Nation		iv. Kerala	1) A : D :: C				
	a) A-ii, B-i, C-		- c) A-ii, B-i, C-	d) A-iv, B-ii, C-	Answer			
16	iv, D-iii	i, D-iii	iii, D-iv	i, D-iii	Answer			
10	The instrument used to measure electric current is -							
					option (a,b,c or			
	a) ammeter	b) electrometer	· (c)	d) spectrometer	d) Answer			
	,		galvanometer		a			
17	The official langu	ages of United 1		1	Answer			
	A: African, Chinese, English, French, German and Spanish							
	B: Arabic, Chines	se, English, Fren	ch, Russian and Spa	nish	option (a,b,c or			
			glish, French and Ge		(a,b,c or d)			
			di, Japanese and Spa					
	a) A & B	b) Only B	c) Only C	d) C & D	Answer			
10	A T	:1::-			b			
18	following field?	ionai, an organiz	cation is associated v	with which of the	Answer			
	Tollowing field?				option (a,b,c or			
					(a,b,c or d)			
	a) Protection of	b) Protection o	f c) Protection of	d)				
	human rights	cruelty to	historical	Environmental	Answer			
	8	animals	monuments	Protection	a			
19	Match the correct	t pairs.		1	1			
	A. J. Robert Op	penheimer	i. atomic bomb		Answer			
	B. Alfred Nobel		ii. dynamite		option			
	C. Wilbur and C	Prville Wright	iii. laser		(a,b,c or d)			
	D. Theodore Ma	niman	iv. airplane		u)			
	a) A-i, B-ii, C-	b) A-ii, B-i, C-	c) A-i, B-ii, C-	d) A-ii, B-i, C-	Answer			
	iv, D-iii	iii, D-iv	iii, D-iv	iv, D-iii	a			
20	Fathometer is use	ed to measure -			Answer			
					option			
					(a,b,c or			
					d)			

	a) Sound Intensity	b) Ocean Depth	c) Rainfall	d) Magnetic field	Answer b		
21		ons?	s recently making h	eadlines, connects	Answer option (a,b,c or d)		
	a) Bandra and Worli	Chirle	c) Thane and Virar	d) Vallarpadam and Kochi	Answer b		
22	Wastelands with (G.R.O.W) C. State of th Europe 2022 D. Animal Disco	Restoration of in Agroforestry e Climate in i	i. International Laboration Organisation ii. Zoological Surve iii. NITI Aayog iv. World Met		Answer option (a,b,c or d)		
		b) A-iii, B-i, C-iv, D-ii	c) A-iv, B-i, C- ii, D-iii	d) A-i, B-iii, C- ii, D-iv	Answer a		
23		nts below and cho h Sultan Azlan Sl hah Trophy is for rophy is for hock	pose the correct opt hah Trophy r wrestling. ey.		Answer option (a,b,c or d)		
	a) Only A is True			d) A & C both are True	Answer d		
24	Given below are two statements one is labeled as Assertion A: and other as Justification B: A: Assertion The International Network for Terrestrial Research and Monitoring in the Arctic (INTERACT) is funded by European Union. B: Justification INTERACT grants researchers access to Arctic research stations across Europe, Russia, and North America, facilitating work in remote areas, fostering cross-fertilization and enabling comparative measurements. In the light of the above statements choose the most appropriate answer from the options given below.						
	a) Both A & B are true, B is the correct explanation of A	b) Both A & B are true, B is not the correct explanation of A	c) A is true but B is false	d) A is false but B is true	Answer a		
25			ss Freedom Day 20		Answer option (a,b,c or d)		
	a) A Press for the Planet: Journalism in the Face of the	b)Shaping a Future of Rights	c)Journalism under Digital Siege	d)Information as a Public Good	Answer a		

	Environmental Crisis					
26		world's largest s	sand island, is in wh	ich country?	Answer option (a,b,c or d)	
	a) Sri Lanka	b) Australia	c) USA	d) Japan	Answer b	
27	Match the follow	ing cups with the				
	A. Murugappa C	Gold Cup	i. Golf		Answer	
	B. Prince of Wa	les Cup	ii. Hockey		option	
	C. Sudirman Cu	p	iii. Badminton		(a,b,c or	
	D. Durand Cup	1	iv. Football		d)	
	a) A-i, B-ii, C- iv, D-iii	b) A-i, B-ii, C- iii, D-iv	c) A-iv, B-iii, C-ii, D-i	d) A-ii, B-i, C- iii, D-iv	Answer d	
28		following is cordry wind moist wind noist wind	rect about Sirocco? Pacific Ocean		Answer option (a,b,c or d)	
	a) C & D is	b) Only A is	c) Only B is	d) B & D is	Answer	
20	correct	correct	correct	correct	b	
29	In geographical c	ontext, the terms	mesa and butte are	:	Answer option (a,b,c or d)	
	a) Small tracts of saline and alkaline soils	b) The upland and marshy areas of the delta region	c) Fluvial and Aeolian landforms in the Ganga Plains	d) A hill and a flat land	Answer d	
30	Where is the Cha	chin Grazing Fes	stival celebrated?		Answer option (a,b,c or d)	
	a) Assam	b) Utta Pradesh	r c) Manipur	d) Arunachal Pradesh	Answer d	
31	Arrange the following in the English alphabetical order: (i) Exploration (ii) Exploitative (iii) Exploratory (iv) Exploitation					
	a) iv, ii, i, iii	b) i, ii, iii, iv	c) iv, iii, ii, i	d) iv, ii, iii, i	Answer a	
32	Match the country A. Scotland B. South Korea C. Russia		ional game/sports i. Bandy ii. Golf iii. Taekwondo		Answer option (a,b,c or	
	D. Afghanistan		iv. Buzkashi		d)	

	a) A-iii, B-ii, C-iv, D-i	b) A-ii, I i, D-iv	B-iii, C-	c) A-ii, B-iii, C-iv, D-i	d) A-iii, B-ii, C- i, D-iv	Answer b	
33	Assertion (A): Nuclear fusion is used to generate electricity. Reason (R): Nuclear power is not used because it cannot be controlled.						
	a) Both A and R are true and R is the correct explanation of A.	b))A is t R is false		c) A is false but R is true	d) Both A & R is false	Answer d	
34	In each of the questions below are given four statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts. Statement: No stool is a desk. Some desks are tables. All tables are chairs. Some chairs are benches. Conclusion: I: No chair is a stool. II: Some benches are desks. III: Some desks are chairs.						
	a) Only I and III follow	b) Only III follow		c) Only I, II and III follow	d) Only III follows.	Answer d	
35	Meera's age 10 ye	ears from	now and	Heena's age 5 year	t age. The sum of ars ago is 94 years. years younger to	Answer option (a,b,c or d) Answer	
26	,	ĺ	1:00	,		a	
36	Choose the word which is different from the rest Tea Cinchona Chalk Rubber Cardamom						
	a) Cardamom	b) Chalk		c) Rubber	d) Cinchona	Answer b	
37	Match the pairs:	l		<u>I</u>	<u>l</u>		
	A. Deductive rea		on spec	ing a general condition of locations of	r evidence	Answer option	
	B. Logical fallac	z y	applies a concl	orm of logical and deductive reasoning usion based on the tions. (iv)	ng to arrive at	(a,b,c or d)	

	C. Inductive rea	soning iii. I)ra	wing a specific cor	nclusion	
	based on general principles or					
		pren				
	D. Syllogism iv. An error in reasoning that					
				ines the validity of		
	a) A-ii, B-i, C-	· ·	iv,	c) A-ii, B-iv, C-		
20	iv, D-iii	C-i, D-ii		i, D-iii	iv, D-ii	b
38	All mammals are					Answer
	Some dogs are m			a oon ha draxyn fr	om the statement	option
	above?	lowing conclus	1011	s can be drawn from	om me statement	s (a,b,c or d)
	a) All animals	b) Some		c) All dogs are	d) Some	<u> </u>
	are dogs	animals are		mammals.	mammals are	Answer
		dogs.			dogs	d
					S	
39	In the question	given below,	the	ere are two states	ments marked a	S
	` /	d Justification ((B)	. Mark your answe	er as per the code	
	provided below:	- 41 - 4				option
		India, female	s h	ave higher life ex	pectancy than the	`
	males. B: Justification -	Esmalas rasair	2.0	hattan diat		d)
				c) A is false but	d) Both A and I	2
	are true and B is		ut	B is true	are false.	
	the correct	D is faise		D is true	are faise.	Answer
	explanation of					b
	A.					
40	125, 80, 45, 20,	.?				Answer
						option
						(a,b,c or
	-) 5	1.) 0		-) 10	1) 15	d)
	a) 5	b) 8		c) 10	d) 15	Answer
41	A speedboat wh	l lose speed in	15	km/hr in still w	ater goes 30 kn	
				tal of 4 hours 30 m		
	speed of the strea					(a,b,c or
	1					d)
	a) 2.5 km/hr	b) 3.5 km/hr		c) 5 km/hr	d) 4 km/hr	Answer
						c
42	Match the pairs:	.1	1 .			
	A. Pythagorean			2πr		Answer
	B. Prime numbe	r		$a^2+b^2=c^2$		option (a,b,c or
	C. Circumference	e of a circle	11	i. 101		(a,b,c or d)
	D. Area of a cub	oid	iv	v. 2lw+2lh+2wh		(a)
	a) A-iii, B-ii, C-	b) A-ii, B-iii,	Ċ-	c) A-i, B-iii, C-	d) A-iv, B-iii, C	- Answer
	i, D-iv	i, D-iv		ii, D-iv	i, D-ii	b
43				answer correctly		Answer
				on workers Akash,		1 ontion
		-		30 and 60 days re	•	1 (abcor
				or Akash to comple	ete the entire worl	$\begin{pmatrix} (a,b,c) & b \\ d \end{pmatrix}$
	if he is assisted by	y Sunil and Ral	(es	n every third day.		,

	a) True, it will	· ·		· ·	Answer			
	take 15 days	take more than 15 days	take less than 15 days	correct	a			
44	(A) and the other Select the correct and (d) as given b Assertion A: The number.	estion two statemed labeled Reason (It answer to these below.	ents are given- one	codes (a), (b), (c)	Answer option (a,b,c or d)			
	a) Both A and R are true and R is the correct explanation of A.	are true but R is not the correct		d) A is false but R is true.	Answer b			
45	Find an approximark (?) 39.012 × 14.98 –			place of question	Answer option (a,b,c or d)			
	a) 45	b) 42	c) 41	d) 43	Answer			
46	The HCF of two 308, the other nur		d their LCM is 770	00. One number is	Answer option (a,b,c or d)			
	a) 275	b) 300	c) 278	d) 280	Answer			
47	Match the equation	Match the equation with their function:						
	A. Linear function	on	i. $k(x)=2x$		Answer			
	B. Exponential f	function	ii. $g(x) = x^2 - 4x + 3$		option (a,b,c or			
	C. Quadratic fur	nction	iii. $f(x)=2x+3$		(d,5,6 or d)			
	D. Cubic function	on	iv. $h(x)=x^3-2x^2-x^2$	+2h(x)				
	a) A-iii, B-i, C- ii, D-iv	b) A- iii, B-iv, C-i, D-ii	iii, D-iv	i, D-iv	Answer a			
48	Which one of the following statements is not correct in the context of Venn diagram method? A: It is a method of testing the validity of arguments. B: It represents both the premises of a syllogism in one diagram. C: It requires two overlapping circles for the two premises of a standard-form categorical syllogism D: It can be used to represent classes as well as propositions a) A & B b) A, B & D c) A, B & C d) Only C							
49			abeled Assertion ((A) and the other	d Answer			
	labeled Justificati	on (B).			option			

	Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. Assertion A: Cube can be obtained by extruding a square. Justification B: Cube has 8 vertices.					
	a) Both A & B is true	b) Both A & B is false	c) A is true and B is correct	d) A is true but B is not correct explanation of A	Answer d	
50	of the girls has t marks. If the mar but not less than	he same marks w ks of any girl is a the marks of an	while each of the but the temporal three t	boys are 24. Each poys has the same marks of any boy, amber of possible 6 boys is -	Answer option (a,b,c or d)	
	a) 90	b) 92	c) 94	d) 84	Answer d	
51	In a frequency dis values is called?	tribution, the diffe	rence between the	highest and lowest	Answer option (a,b,c or d)	
	a) Mean	b) Range	c) Mode	d) Frequency	Answer b	
52	A. Skewness B. Kurtosis C. Variance	flatness of ii. measure the distribu	the degree of peak the distribution s the degree of asy tion	mmetry of	Answer option (a,b,c or	
	D. Covariance	a dataset	e of the dispersion of the relationsh of variables		d)	
	a) A-ii, B-i, C- iii, D-iv	b) A-i, B-ii, C- iii, D-iv	c) A-ii, B-i, C-iv, D-iii	d) A-iv, B-iii, C- ii, D-i	Answer a	
53	Read the following sentences carefully and answer True or False: A: The probability of an event always lies between 0 and 1. B: If two events are independent, the occurrence of one event does not affect the probability of the other event. C: The probability of an event always remains the same regardless of the number of trials conducted.					
	a) All are true	b) All are false	c) Only A is true	d) A & B is true	Answer d	
54	Two statements are given- one labeled Assertion (A) and the other labeled Justification (B). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. A: Assertion - In stratified sampling, the population is divided into mutually exclusive groups called strata. R: Reason - Stratified sampling ensures that each stratum is represented proportionally in the sample.					
	a) Both A and R are true and R is		c) A is true but R is false	d) A is false but R is true	Answer a	

	the correct explanation of A	correct explanation of A				
55	Which of the following measures is used to describe the spread or dispersion of a dataset?					
	a) median	b) standard deviation	c) mean	d) mode	Answer b	
56	In analysis of var	iance (ANOVA),	what does the F-tes	t evaluate?	Answer option (a,b,c or d)	
	a) The difference between sample means	b) The variability within groups compared to the variability between groups	c) The presence of outliers in the data	d) The shape of the distribution	Answer b	
57	Match the given p					
	A. Primary data	source	i. Individual respo	ndents	Answer	
	B. Non probabil	ity	ii. Stratified Sampl	ling	option	
	C. Secondary da	ta source	iii. Census report		(a,b,c or d)	
	D. Probability iv. Quota Sampling					
	a) A-i, B-iv, C-iii, D-ii	b) A-i, B-ii, C- iii, D-iv	c) A-i, B-iv, C-iii, D-ii	d) A-ii, B-iv, C-iii, D-i	Answer a	
58	$E(X) = \lambda$ is used to	for which distribut	tion?		Answer option (a,b,c or d)	
	a) Poisson's distribution	b) Binomial Distribution	c) Bernoulli's distribution	d) Laplace distribution	Answer a	
59	A: Assertion - Typrejected.	pe I error occurs w I error is the proba		rdingly hesis is incorrectly the null hypothesis	Answer option (a,b,c or d)	
	a) Both A and R are true and R is the correct explanation of A.	b) Both A and R are true and R is	R is false	d) A is false but R is true	Answer b	
60	Find the mode of 11,13, 13, 17, 19,	the call received	on 7 consecutive da	ay	Answer option (a,b,c or d)	
	a) 25	b) 13	c) 11	d)17	Answer b	

61	Nowadays Vishing has become a criminal practice of using social engineering over which of the following?					Answer option (a,b,c or d)	
	a) Social networking sites	b) Mobile Phones	c) E-mails	d) Cyber caf	fés	Answer b	
62	Match the follow	ing and answer t				Answer	
	A. Google						
	B. Father of Computer		ii. Bill Gates and Paul Allen			option	
	C. Artificial Inte	lligence	iii. Charles Babbag	Charles Babbage		(a,b,c or d)	
	D. Microsoft		iv. Larry Page and	Sergey Brin		u)	
	a) A-i, B-iii, C- ii, D-iv	b) A-iv, B-iii C-i, D-ii	i, c) A-i, B-iii, C-iv, D-ii	d) A-ii, B-ii i, D-iv	i, C-	Answer b	
63	Which of the followard A. Redhat Linux	There are many application software packages available at present. Which of the following is an application software package? A. Redhat Linux B. Adobe PageMaker					
	a) A & B	b) B & C	c) Only B	d) Only C		Answer b	
64	Read the following assertion and reason, answer accordingly Assertion A: Binary code is the fundamental language used by computers to represent and process data. Reason R: Computers understand and manipulate only alphanumeric data.						
	a) Both A and R are true and R is the correct explanation of A.	b) Both A and R are true but I is not the correct explanation of A.		d) A is false R is true	e but	Answer c	
65	Which of the following is an advantage of using Ring network topology?						
	a) Troubleshooting is easy	b) Failure of one computer has no effect or others	c) Network is not affected by high traffic	/	the	Answer c	
66	Which of the following computer memory is both static and nonvolatile?						
	a) RAM	b) Cache Memory	c) ROM	d) Hard Disk	k	Answer c	
67		Match the following					
	A. Python i. System and application software development				Answer option (a,b,c or		
	B. C++ ii. Web page structure and content						

	C. SQL		iii. Data manipulat		
	D. HTML		querying in databa iv. General-purpos		
			programming with		
			readability and sin		
	a) A-i, B-ii, C-	b) A-iv, B-i, C		d)A-iv, B-i, C-	Answer
	iv, D-iii	ii, D-iii	iii, D-ii	iii, D-ii	d
68	What is the full for	orm of ASCII?			Answer option (a,b,c or d)
	a) Asian	b) American	c) American	d) American	
	Standard Code	Standard Code		Standard Code	Answer
	for Information	for Intelligence	_	for Information	d
	Interchange	Interchange	Interchange	Interchange	
69		-	labeled Assertion ((A) and the other	
	labeled Reason (I	/	41	1 (-) (1-) (-)	
			e questions from the	codes (a), (b), (c)	Answer
	and (d) as given b	below.			option
	Assertion A: The	CPII (Central P	rocessing Unit) is co	onsidered the brain	(a,b,c or
	of the computer.	Cr o (Central r	rocessing Omi, is ec	msidered the orani	d)
	-	CPU performs a	arithmetic and logic	al operations and	
	controls the execu			ar operations and	
	a) Both A and R		R c) A is true but	d) A is false but	
	are true and R is			R is true.	
	the correct	not the correc	et		Answer
	explanation of	explanation o	of		a
	A.	A.			
70		ne number of by	tes, transferred at th	e rate of 1 Kilobit	
	per second?				option
					(a,b,c or
)100	1) 100	125	1) 140	<u>d)</u>
	a)100	b) 108	c) 125	d) 140	Answer
71	Fossils are most of	l commonly found	in which type of ro	olz?	Answer
/ 1	Tossiis are most o	commonly lound	in which type of fo	CK:	option
					(a,b,c or
					d)
	a) igneous	b) metamorphi	c c) sedimentary	d) none of these	Answer
				· .	c
72	Match the pairs:				
	A. Karst Topogr	aphy	i. Ox-bow lake		Answer
	B. Glacial Topo	graphy	ii. Stalagmites		option
	C. Fluvial landform i		iii. Morraine	(a,b,c or	
			iv. Loess		d)
	a) A-ii, B-i, C-			d) A-ii, B-iii, C-	Answer
	iii, D-iv	i, D-iv	i, D-iv	iv, D-i	b
73		,	wer True or False	11, 10 1	Answer
, 5				s during a tsunami	option
	A. The Richter scale measures the size of ocean waves during a tsunami.				

	B. The Richter scale measures the magnitude of earthquake during a tsunami.C. The Mercalli scale measures the intensity of earthquake during a					
	tsunami. D. The Mercalli scale measures the intensity of oceanic current during a tsunami.					
	a) A & D are true	b) B & C are true	c) None is True	d) All are True	Answer b	
74	Read the following statements and answer appropriately Assertion A: The Grand Canyon in the United States was primarily formed by erosion from wind. Reason R: Canyons are generally formed in humid region					
	a) Both A & R is false	are true and R is the correct		d) A is true but R is false	Answer d	
75	Which one of the following types of sea floor sediments includes calcareous and siliceous oozes?					
	a) Terrigenous	b) Fluvial	c) Biogenous	d) Hydrogenous	Answer	
76	Which of the following features is NOT commonly associated with convergent plate boundaries?					
	a) volcanoes	b) mountain ranges	c) rift valleys	d) earthquakes	Answer c	
77	Match the layers A. Exosphere		with their correct i. Layer closest surface	positions: to Earth's	Answer	
	B. Stratosphere		ii. Layer containir layer	ng the ozone	option (a,b,c or	
	C. Troposphere		iii. Layer where 1 up	neteors burn	d)	
	D. Mesosphere		iv. Layer containin	g satellites		
	a) A-iv, B-ii, C-i, D-iii	b) A-iv, B-i, C-ii, D-iii	c) A-iv, B-ii, C- iii, D-i	d) A-i, B-ii, C- iii, D-iv	Answer a	
78	Determine whether the following statements are true or false A) The Earth's inner core is composed of liquid iron and nickel. B) The Mohs scale is used to measure the hardness of minerals. C) The Coriolis effect is caused by the rotation of the Earth. D) Pangea is the name of the supercontinent that existed around 200 million years ago.					
	a) All are true	b) All are false	c) only C & D is true	d) only A& B is true	Answer a	
79	Read the assertion given as A and justification given as B and answer using the correct codes. A: Assertion - Geodesy is the scientific discipline that deals with the measurement and representation of the Earth,					

	R. Justification -	Geodesy primari	ly focuses on the	study of weather			
		B: Justification - Geodesy primarily focuses on the study of weather patterns and atmospheric phenomena.					
	a) Both A & B are true, B is the correct	b) A is true but B is false		d) Both A & B is false	Answer		
	justification of A				b		
80	Which type of volcano has the steepest slopes and is composed of alternating layers of ash and lava?			Answer option (a,b,c or d)			
	a) Shield volcano	b) Cinder cone volcano	c) Stratovolcano	d) Caldera volcano	Answer c		
81	Which of the foll milk?	owing techniques	can be used to se	parate cream from	Answer option (a,b,c or d)		
	a) Filtration	b) Distillation	c) Centrifugation	d) Chromatography	Answer		
82	Match the pairs:		,				
	A. Phrenology	i. study of so			Answer		
	B. Astronomy		ii. study of physical properties and behavior of celestial bodies				
	C. Pedology iii. study of the mental faculties of the brain including emotions				(a,b,c or d)		
	D. Astrophysics	trophysics iv. study of positions and movements of stars and planets					
	a) A-iv, B-iii, C- i, D-ii	C-i, D-ii	i, D-iv	d) A-iv, B-iii, C- ii, D-i	Answer b		
83			ver whether it's Tr		Answer option		
		s defined as the rai	te of change of velocts to move.	ocity over time.	(a,b,c or d)		
	a) A is true but B is false	b) Both A & B is true		d) Both A & B is false	Answer		
84	Two statements are given- one labeled Assertion (A) and the other labeled Justification (B). Select the correct answer				Answer option		
	Assertion A: Water always boils at exactly 100 Degree Celsius. Justification B: The boiling point of water can vary depending on factors such as altitude and atmospheric pressure.						
	a) A is true and B is the correct justification	b) A is false but B is true	c) A & B both are true	d) A & B both are false	Answer b		
85	How do neurons communicate with one another?						
	a) Electrically	b) Chemically	c)Through weak, radio-	d) Both a & b	Answer d		

			wave-like				
96	Thomas and the same	mag of last and	impulses	following is set as	A		
86	of them?	pes of neterotro	opns. which of the	following is not one	Answer option		
	of them:						
					(a,b,c or d)		
	a) Omnivores	b) Herbivores	c) Consumers	d) Carnivores	Answer		
0.7	N. (1 .1				c		
87	Match the pairs: A. Baking Soda i. Calcium Hypochlorite						
			• -		Answer		
	B. Bleaching po	wder	ii. Sodium Chlor	ride	option		
	C. Caustic Soda		iii. Sodium hydr	ogen carbonate	(a,b,c or d)		
	D. Common Sal	t	iv. Sodium hydro	oxide	(a)		
	a) A-iii B-i C-	b) A-iv B-i (C- c) A-i B-ii (c- d) A-iii, B-i, C-	Answer		
	ii, D-iv	iii, D-ii	iii, D-iv	iv, D-ii	d		
88			nswer whether it's				
	A. Photosynthesis	s occurs in plan	t cells.		Answer option		
	B. Yeast is multic	_			(a,b,c or		
	C. All fungi are u	_			(a,0,0 or d)		
	D. Mushrooms ar				,		
	a) All are True	b) All are false	c) Only A & l		Answer		
89	Two statements	are given, one		true (A) and the other	С		
0)	labeled Reason (F	-	laocica Assertion	(A) and the other	Answer		
	Select the correct answer						
			y for combustion to	occur.	option (a,b,c or		
	Assertion A: Oxygen is necessary for combustion to occur. Reason R: Combustion is a chemical reaction that involves the rapid						
	combination of a	fuel with oxyge	en.	_	ŕ		
	,	/	A c) Both A & 1	R d) only A is true			
	and R are true,						
	and R is the	and R is NO			Answer		
	correct	the corre			a		
	explanation of	explanation of	OI				
90	the A. Which of the foll	the A.	ecular forces ench	es us to write on the	Answer		
90	blackboard with a		cculai forces chaoi	es us to write on the	option		
	oluckoodid with t	chark.			(a,b,c or		
					d)		
	a) Cohesive	b) Adhesive	c) Both a & b	d) None	Answer		
	force	force			b		
91	Anuradha Sawhney is well known for her work in which of the following						
	fields?				option		
					(a,b,c or		
	a) Animal	b) Rain water	c) Human	d) Micro	d) Answer		
	Rights	Harvesting	Rights	Finance	a		
92	Match the pairs:						
	A. Kyoto Protocol i. Sustainable development				Answer option		
	B. Johannesburg Summit ii. Climate change mitigation						
	B. Johannesburg Summit 11. Climate change mitigation						

	C. SAARC		iii. Agency focused on improving the			
	D. UNICEF		well-being of children worldwide iv. Promote regional cooperation and			
	D. UNICEF			lopment	operation and	
	a) A-i, B-ii, C-	b) A-iii, B-ii			d) A-i, B-ii, C-	Answer
	iv, D-iii	iv, D-i	, •	iv, D-iii	iii, D-iv	c
93			answ	ver whether it's Tru		
					and depletion of	Answer
	oxygen levels.					option
					nutrients in water	(a,b,c or
				rowth and biodive	rsity.	d)
	C. Eutrophication a) All the	_			d) A & B is false	Amazzzan
	a) All the options are true	b) Only B is true		true	a) A & B is laise	Answer c
94	1		ne 1s		(A) and the other	<u> </u>
74	labeled Reason (F	-	10 16	ibeled Assertion (A) and the other	Answer
	Select the correct	/				option
	A: Assertion - Th	ermal pollution	n is	a problem for mar	ine organisms.	(a,b,c or
		-		-	perature range and	d)
	thermal pollution				·	
	/	/		c) Both A & B	d) Only A is true	
	are true, and B is			is false		
	the correct		the			Answer
	explanation of A.	correct explanation	of			a
	A.	A.	01			
95	Which among the	1	the n	najor cause of acid	l rain?	Answer
		C		3		option
						(a,b,c or
		Τ		T	T	d)
	a) Carbon	b) Oxygen		c) Nitrogen	d) Carbon	Answer
06	monoxide	1 4 . 41 1		dioxide	dioxide	C
96	which country is	nome to the i	arge	st portion of the A	mazon rainiorest?	Answer option
						(a,b,c or
						(u,o,c or d)
	a) Venezuela	b) Colombia	,	c) Peru	d) Brazil	Answer
		•				d
97	Match the pairs:					
	A. hot, dry sum	mers and mil	d , i	i. Tropical Rainfor	est (Af)	
	wet winters			· · · · · · · · ·	1' (
	B. warm temp	•	r- 1	ii. Tropical Savann	ia climate (Aw)	Answer
	round and abundant rainfall			option (a,b,c or		
	C. Warm temperatures year- round with distinct wet and dry			(a,b,c or d)		
	seasons				<i>a,</i>	
	D. Cold temperatures year- iv. Tundra					
	round with heavy snowfall					
	a) A-i, B-ii, C-	ř – – – – – – – – – – – – – – – – – – –	C-	c) A-iii, B-ii, C-	d) A-iii, B-i, C-	Answer
	iii, D-iv	ii, D-iv		i, D-iv	iv, D-ii	b
98	Dood the statemen	nte about Core	$1 D_{\alpha}$	efs below and ans	syan aannaatly	A 40 CYY 1 C40
70	Read the statemen	nis about Cora	ıı Ke	cis ociow and ans	wer correctly.	Answer option

	A. Coral reefs are diverse underwater ecosystems built by colonies of					
	tiny animals called coral polyps.					
	B. Coral reefs are found only in shallow, warm waters in tropical and					
	subtropical region	•		1		
	C. Calcium carbo	nate skeletons for	m the structure of t	the reef.		
	D. Coral reefs are	found in freshwat	ter ecosystems.			
	a) All are true	b) All are true	c) All are false	d) All are false	Answer	
	except D	except B	except A	except B	a	
99	Two statements	are given- one la	beled Assertion (A) and the other		
	labeled Reason (F	_			Answer	
	Select the correct	answer			option	
	A: Assertion - Biofuels are considered as non-renewable energy source.					
	B: Justification - Biofuels are derived from materials such as industrial					
	waste, which can be replenished through natural processes.					
	a) Both the A	b) Both the A	c) Only A is true	d) Both A & B		
	and B are true,	and B are true,		are false.		
	and B is the	and B is NOT			Answer	
	correct	the correct			d	
	explanation of	explanation of				
	the A.	the A.				
100	Xerophytes can tolerate and stand against					
	a) severe cold	b) drought	c) high	d) humidity	Answer	
		conditions	temperature		b	