

This booklet consists of **100** questions and **12** printed pages.

RGUCET/2023/PGD/05

Series

NIL

RGUCET 2023

POST GRADUATE DIPLOMA IN GEO-INFORMATICS (PGDGI)

Full Marks: 100

Time: 2 Hours

Roll No.

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Day and Date of Examination :

Signature of Invigilator(s) :

Signature of Candidate :

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). 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 15 minutes after the commencement of the entrance test or leave the examination hall before 30 minutes of end of examination.
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 candidate(s) is/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, RGU shall be final and binding.
9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	“You are delaying the completion of the task. Send _____ contributions at the earliest.”				B
	a) you are	b) your	c) you’re	d) yore	
2	References: _____: : Guidelines : Implement (By word meaning)				C
	a) Sight	b) Site	c) Cite	d) Plagiarise	
3	Spot the error in the given sentence Holidays <u>invite us</u> to build relationships <u>through each</u> kind of interaction; <u>it asks us</u> to remember our purpose which is to share and coexist in peace with others.				C
	a) invite us	b) through each	c) it asks us	d) no error	
4	Fill in the blanks to complete the sentence Uncertainty is _____ every decision we make, from the most _____ choices of our lives to the most mundane.				A
	a) inherent in, profound	b) certain of, irrelevant	c) rather beyond monotonous	d) final straw in, wise	
5	Choose the word opposite in meaning to the word ‘Futile’				A
	a) Fruitful	b) inept	c) insane	d) feeble	
6	Neither money nor power _____ needed to get selected for the Olympics				C
	a) are	b) were	c) is	d) was	
7	As the tree was too high to climb, the mischievous boys _____ their ball down only by throwing sticks at it.				B
	a) would have knocked	b) were able to knock	c) will have to knock	d) may have knocked	
8	Select the word that is opposite in meaning to the given word. ‘Adversity’				A
	a) Fortune	b) Affliction	c) Brilliance	d) Penury	
9	Select the most appropriate synonym of the given word. ‘Announce’				D
	a) Denounce	b) Secret	c) Hide	d) Advertise	
10	Choose the grammatically correct sentence				A
	a) Both Hari and I don’t like horror	b) Both I and Hari don’t like horror	c) I and Hari both doesn’t	d) Both I and Hari doesn’t	

	films.	films.	like horror films.	like horror films	
11	e-PG Pathshala is an ICT initiative launched by				
	a) NCERT	b) UGC	c) AICTE	d) Ministry of Information and Broadcasting	B
12	Manipulating research material, equipment, and processes or change data or results is an ethical issue in research known as				
	a) Fabricating Behaviour	b) Plagiarism	c) Falsification	d) Extra Corporal	C
13	National Green tribunal Act,2010 draws inspiration from India's constitutional provision of:				
	a) Article 3	b) Article 19	c) Article 21	d) Article 15	C
14	What is the number of goals of sustainable development proposed by United Nations General Assembly, to be achieved by 2030?				
	a)17	b)14	c)15	d)16	A
15	Chilka Lake, Asia's biggest inland saltwater lagoon is situated in				
	a) Rajasthan	b) Odisha	c) Andhra Pradesh	d) Kerala	B
16	As of 2023 which country is not the member of G20 Summit?				
	a) India	b) South Korea	c)Germany	d)Pakistan	D
17	The point on the Moon's orbit closest to Earth is called_?				
	a) Apogee	b) Perigee	c) New Moon	d)Waxing Crescent	B
18	World Environment Day is celebrated on_?				
	a) 5 th June	b) 21 st June	c) 4 th July	d)10 th December	A
19	By how much Indian standard time (IST) is offset fromCoordinated Universal Time (UTC)?				
	a)+5.30	b) -5.30	c) +6.30	d) -6.30	A
20	World's deepest trench is located in?				
	a) Indian Ocean	b) Atlantic Ocean	c) Pacific Ocean	d) Artic Ocean	C

21	As per the 'World Population Prospects 2022' report, India is projected to surpass China as the world's most populous country in which year?				A
	a) 2023	b)2025	c)2030	d)2050	
22	Sariska Tiger Reserve is in which state?				C
	a) Gujrat	b) Madhya Pradesh	c) Rajasthan	d) Kerala	
23	Torino Scale, which was seen in the news, is associated with which field?				A
	a) Space Science	b) Earthquake	c) Poverty	d) GDP	
24	Finance Minister Nirmala Sitharaman introduced a new scheme in Union budget 2023-24, "MISHTI" which stands for?				B
	a) Mainland Innovation for Sustainable Hotspots for Tiger Inputs	b)Mangrove Initiative for Shoreline Habitats & Tangible Incomes	c)Marginal Initiative for Scheduled Habitats & Tribal Indigenous	d) Minimal Input for Society Habitats with Tribal Income	
25	Orange Cap Award for scoring highest runs in IPL 2023 is awarded to?				B
	a) KL Rahul	b) Shubman Gill	c) Virat Kohli	d)Ruturaj Gaikwad	
26	First Indian movie to receive Oscars 2023 in short documentary category?				A
	a) The Elephant Whisperers	b) The Dog Whisperers	c) RRR	d) Stranger At the Gate	
27	ChatGPT is an artificial intelligence (AI) chatbot developed by OpenAI. ChatGPT stands for?				D
	a) Chat Gaming Process Task	b) Chat Gaming Pre-Trained Transformer	c) Chat Generative Post Trained Transformer	d)Chat Generative Pre-Trained Transformer	
28	Which is world's longest railway route?				B
	a) Indian Railways	b) Trans-Siberian Railways	c) Canadian Railway	d) Pacific Indian Railway	
29	The name of river cruise from Varanasi to Dibrugarh via Bangladesh inaugurated on 13 th January 2023.				C

	a) MK Ganga Vilas	b) Vande Bharat	c) MV Ganga Vilas	d) Ganga Cruise		
30	India's first Polarimetry mission that is meant to study various dynamics of bright astronomical X-ray sources in extreme conditions?					A
	a) X-Ray Polarimeter Satellite (XPoSAT)	b) Indian Regional Navigation Satellite System (IRNSS)	c) X- ray Polarimetry System (XPS)	d) Imaging X-ray Polarimetry Explorer (IXPE)		

31	In a code language, CIRCUS is written DKUGZY. How will JOKER be written in same language?					A
	a) KQNIW	b) KRNIW	c) KQMJX	d)HPQNI		
32	There are five people in a family. C is the wife of E.A is the mother of C. S is the son of E, T is the sister of S. How is A related to T?					C
	a) Mother	b) Aunt	c) Grandmother	d) Mother-in-Law		
33	Select the option that is related to the third number in the same way as the second number is related to the first number. 184 : 40 :: 245 : ?					
	a) 28	b) 34	c) 22	d) 36		A

3 4	The next term in the series-1, 5, 15, 29, ? , ...					
	a) 36	b) 47	c) 59	d) 63		
3 5	Find the odd one out from the following list of numbers 105,112,138,201,326, 540					C
	a) 112	b) 201	c) 326	d)138		
3	Ram started moving in the East direction. After walking for 8m in the same direction, he took a right turn and walked for 6m to reach the hospital. From the hospital he walked in					A

6	west direction for 3m and took a left turn. He walked for 4m in the same direction and reached the office. So, what is the shortest distance between Ram's office and hospital?				
	a) 5m	b) 6m	c) 9m	d) 10m	
3 7	The ratio of present ages of two children is 5:6. Two years hence, the ratio will be 7:8. What will be the ratio of their ages after 12 years?				C
	a) 22:24	b) 15:16	c) 17:18	d) 11:12	
3 8	The next term in the series B2E, D5H, F12K, H27N, ? IS				A
	a) J58Q	b) J56I	c) I62Q	d) Q62J	
3 9	Choose the pair in which words are differently related.				D
	a) Ice cube: Cold	b) Iron : Hard	c) Marble: Smooth	d) Purse: Money	
4 0	Five persons Amit, Anil, Ajay, Atul and Anand live in a fivestorey building on different floors. Amit lives above Ajay, but below Anand. Atul lives above, but below Amit. Anil lives below Anand, but above Atul. In which floor does Anil live?				C
	a) Third floor	b) Second Floor	c) Either Third or Fourth Floor	d) Fourth Floor	
4 1	A bus can cover 235 km in 4.7 hours and speed of car is 40 km/hr more than that of bus. Find the time taken by car to cover 243 km.				B
	a) 2.5 hrs	b) 2.7 hrs	c) 2.75 hrs	d) 2.25 hrs	
4 2	A sum is invested at the rate of 40% per annum where interest is compounded quarterly. If interest amount received after six months is Rs.2520, then find the invested amount.				B
	a) 16000	b) 12000	c) 14000	d) 10000	
4 3	A and B working together can finish a piece of work in 12 days while B can alone finish it in 30 days. In how many days can A alone finish the work?				B
	a) 18 days	b) 20 days	c) 24 days	d) 25 days	
4 4	The sum of five consecutive numbers is 190. What is the sum of the largest and the smallest numbers?				C
	a) 75	b) 77	c) 76	d) 73	

4 5	How many marbles of size 20cm x 30 cm required to pave the floor of a square room of size 300 cm x 300 cm?				A
	a) 150	b) 25	c) 100	d) 225	
4 6	The area of an equilateral triangle is $\frac{\sqrt{243}}{4}$ sq cm. Find the length of its side.				A
	a) 3 cm	b) $3\sqrt{3}$ cm	c) 9 cm	d) $\sqrt{3}$ cm	
4 7	A cooler is bought for Rs. 5000 and sold at a profit of 25%. Find its selling price.				A
	a) Rs 6250	b) Rs 5000	c) Rs 4250	d) Rs 6000	
4 8	The chances of defective screws in three boxes A, B and C are $\frac{1}{5}$, $\frac{1}{6}$ and $\frac{1}{7}$ respectively. A box is selected at random is found to be defective. Find the probability that it came from box A.				C
	a) $\frac{40}{107}$	b) $\frac{41}{107}$	c) $\frac{42}{107}$	d) $\frac{43}{107}$	
4 9	The number 251 decimal system is expressed in binary system by:				B
	a) 11110111	b) 11111011	c) 11111101	d) 111111101	
5 0	Look at the following units of measuring length: Km, mm, cm, m, dm. If we arrange them in ascending order which unit will be at fourth place?				B
	a) Km	b) m	c) dm	d) cm	
5 1	In a data distribution Mean, Median and mode are same. What type of curve is it?				A
	a) Normal Probability Curve	b) Lorenz Curve	c) Skewed Curve	d) Cusps Curve	
5 2	Chi square is used to find out _____ in data distribution				C
	a) regularity	b) periodicity	c) homogeneity	d) heterogeneity	
5	Mode quantitatively describes				C

3						
	a) standard behaviour	b) abnormalities	c) trend of the period	d) None of These		

54	T- test is a					A
	a) Parametric test	b) Non Parametric Test	c) Large sample Test	d) None of these		
55	Given mode=22 and median =214. Find out the average mean					A
	a) 21.1	b) 21.4	c) 22.1	d) 22.4		
56	Null Hypothesis and Alternate Hypothesis is denoted by					A
	a) H_0, H_1	b) $0H, 1H$	c) H_1, H_0	d) None of these		
57	Karl Pearson's co-efficient of correlation between two variables x and y is equal to					
	a) Ratio of Co-variance between two variables to the product of their standard deviation	b) Product of their standard deviation	c) Square root of the product of two regression co-efficient	d) None of these	A	
58	Mean, median and mode coincide if the distribution value is					
	a) Negatively skewed	b) Normal	c) Positively Skewed	d) poisson		B

5 9	If the probability of inclusion of every unit of population in the sample is equal, it is called				
s	a) simple random sampling	b) stratified random sampling	c) systematic sampling	d) None of the above	A
6 0	Cumulative frequency distribution is shown by				
	a) Histogram	b) Frequency Curve	c) Pie Diagram	d) Ogive	D
6 1	A collection of inter-related records is called a				
	a) Utility file	b) Database	c) Spreadsheet	d) datasheet	
6 2	An unsolicited e-mail, message sent to many recipients at once is a				
	a) worm	b) virus	c) threat	d) spam	D
6 3	A terabyte is equal to				
	a) 1024 megabytes	b) 1024 kilobytes	c) 1024 gigabytes	d) 1024 x 1024 kilobytes	C
6 4	Full form of PDF is				
	a) Portable Data Format	b) Portable Document Form	c) Portable Document Format	d) Portable Data Form	C
6 5	What are .bas, .eml, .htm examples of in computing?				
	a) extensions	b) Protocols	c) Databases	d) Domains	A
6 6	Which one of the following is a file?				
	a) Floppy disk	b) Magnetic Drum	c) Magnetic tape	d) None of the above	D

6 7	Most commonly used codes for representing bits are				
	a) ACII	b) BCD	c) EBCDIC	d) All of these	D
6 8	Information and Communication Technology includes				
	a) Online learning	b) Web based learning	c) Learning through the use of EDUSAT	d) All of the above	D
6 9	When a computer is booting, BIOS is loaded to the memory by				
	a) RAM	b) ROM	c) CD-ROM	d) TCP	B
7 0	Which of the following is not a programming language?				
	a) Pascal	b) Microsoft Office	c) Java	d) C++	B
7 1	The upper part of the mantle upon which the crust of the Earth floats is known as				
	a) Barysphere	b) Mesosphere	c) Hydrosphere	d) Asthenosphere	D
7 2	Which of the following is a residual part of Tethys Sea?				
	a) Red Sea	b) Lake Superior	c) Mediterranean Sea	d) Sea of Marmara	C
7 3	Continents have drifted apart because of				
	a) Volcanic eruptions	b) Tectonic activities	c) Folding and Faulting of rocks	d) All of the above	B
7 4	Normal cycle of erosion is associated with				
	a) Glacial Erosion	b) Fluvial Erosion	c) Marine Erosion	d) Wind Erosion	B

7 5	The major source of temperature of the oceanic water is				
	a) The Earth	b) The Sun	c) The temperature of the Earth interior	d) None of these	B
7 6	The average depth of 'equatorial -counter' current is				
	a) 50m	b) 100 m	c) 150 m	d) 200 m	B
7 7	Which one of the following types of sea floor sediments includes calcareous and siliceous oozes?				
	a) Fluvial	b) Terrigenous	c) Biogenous	d) Hydrogenous	C
7 8	Canyons are formed in				
	a) Arid region	b) Humid region	c) Polar region	d) Tectonic zone	A
7 9	A steep sided valley carved by water from a melting glacier is called				
	a) cirque	b) fjord	c) hanging valley	d) none of these	D
8 0	Orogenetic forces are responsible for causing				
	a) folding	b) warping	c) faulting	d) all of these	D

81	Pitch of sound is determined by its					A
	a) frequency	b) speed	c) amplitude	d) loudness		
82	A pendulum oscillates 20 times in 4 seconds. Find its time period.					
	a) 0.05 sec	b) 0.001 sec	c) 0.2 sec	d) 0.1 sec		C
83	The Halley's Comet is seen after every					B
	a) 76 months	b) 76 years	c) 56 months	d) 56 years		
84	Which unit is used to measure astronomical distances?					B

	a) leap year	b) light year	c) century	d) sound year	
85	Name the type of mirror used as a back view mirror				
	a) plane mirror	b) concave mirror	c) convex mirror	d) none of these	C
86	Visually impaired people can read and write using				
	a) electronic writer	b) digital pens	c) Brailee System	d) Hearing aids	C
87	Which of the following is a liquid at room temperature?				
	a) iron	b) Bromine	c) iodine	d) Phosphorus	B
88	Sound cannot travel through				
	a) vacuum	b) air	c) water	d) solids	A
89	Friction due to fluid is called				
	a) force	b) pressure	c) friction	d) drag	D
90	Which of the following activity is allowed in National Park, Sanctuaries and biosphere reserves?				
	a) Poaching	b) Hunting	c) Tourism	d) Deforestation	C
91	The Shillong Plateau has which type of vegetation?				
	a) Dry Deciduous	b) Tropical Deciduous	c) Tropical Evergreen	d) Northern Montane	C
92	What is low grade brown coal called?				
	a) Bituminous	b) anthracite	c) lignite	d) none of these	C
93	In which among the following states of India the “NamchikNamphuk” coal field located?				
	a) Meghalaya	b) Arunachal Pradesh	c) Sikkim	d) Manipur	B
94	Landslides are mainly caused by which of the following factors?				
	a) High Rainfall	b) Earthquake	c) Unstable slope	d) All of these	D
95	The nuclear fuel used in the fast breeder reactor is				
	a) cadmium	b) radium	c) uranium	d) thorium	B

96	_____ is the process of removing carbon from the atmosphere and storing it in a carbon sink				B
	a) Carbon Trading	b) Carbon Sequestration	c) Carbon Tax	d) Carbon offset	
97	The dominant source of pollutant due to oxides of nitrogen (NO_x) in urban areas is				A
	a) road transport	b) commercial sector	c) energy use in industry	d) power plants	
98	Xerophytes can tolerate and stand against				D
	a) high temperature	b) severe cold	c) humidity	d) drought conditions	
99	Function of an ecosystem depends upon				D
	a) geographical features	b) sunlight	c) amount of rainfall	d) all of these	
100	Which of the following is not a greenhouse gas?				C
	a) Carbon dioxide	b) Water vapour	c) Nitrogen	d) All of these	

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