Code No.	V - 2359
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Entrance Examination for Admission to the P.G. Courses in the Teaching Departments, 2025

CSS

LIBRARY AND INFORMATION SCIENCE

For office use only

General Instructions

- 1. The Question Paper is having 100 Objective Questions, each carrying one mark.
- 2. The answers are to be () 'tick marked' only in the "Response Sheet" provided.
- 3. Negative marking: 0.25 marks will be deducted for each wrong answer.

Time: 2 Hours Max. Marks: 100

To be filled in by the Candidate								
	in Figures							
Number	in words							

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Choose appropriate answer from the options in the questions.

 $(100 \times 1 = 100 \text{ marks})$

- 1. Identify the next number in the series: 3, 6, 11, 18, 27?
 - A. 38
 - B. 40
 - C. 41
 - D. 39

DONOTWRITEHERE

- 2. The first digital library in India, "Digital Library of India," was developed by which institution?
 - A. IIT Delhi
 - B. IISc Bangalore
 - C. National Library, Kolkata
 - D. Raja Rammohan Roy Library Foundation
- 3. Logical Reasoning: If *ALL PENS ARE BOOKS*, and *ALL BOOKS ARE TOOLS*, then which of the following is true?
 - A. All pens are tools

B. All tools are pens

C. All books are pens

D. Some pens are not tools

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4.	vvno wrote the book "wny i Am an Atheist"?							
	A.	Swami Vivekananda	B.	Bhagat Singh				
	C.	Periyar E.V. Ramasamy	D.	B. R. Ambedkar				
5.	Tra	<i>in to Pakistan"</i> is a novel about the	Part	ition of India. Who <i>wrot</i> e it?				
	A.	Khushwant Singh	B.	Salman Rushdie				
	C.	Mulk Raj Anand	D.	Vikram Seth				
6.	Wh	ich author wrote the book <i>"The Ar</i> g	iume	ntative Indian"?				
	A.	Amartya Sen	B.	Pavan K. Varma				
	C.	Chetan Bhagat	D.	Raghuram Rajan				
7.		ich Malayalam author is known rels like <i>Francis Itty Cora</i> and <i>Suga</i>		olending physics and mysticism in Enna Andal Devanayaki?				
	A.	N. S. Madhavan						
	B.	T. D. Ramakrishnan						
	C.	K. V. Mohankurnar						
	D.	Benyamin						
8.		Who is the first transgender person to publish an autobiography in Malayalam titled "Smaranakalude Nizhalil"?						
	A.	Sheethal Shyam						
	B.	Vidya Kamble						
	C.	Jiya Das						
	D.	Living Smile Vidya						
9.		Which novel by Sarah Joseph uses elements of magic realism to depict a woman's quest for identity in a patriarchal society?						
	A.	Othappu						
	B.	Budhini						
	C.	Mattathi						
	D.	Oru Cheriya Lokam						

10.	10. The Nationalisation of Banks in Kerala was a key policy under which C Minister?			
	A.	K. Karunakaran		
	B.	E. M. S. Namboodiripad		
	C.	P. K. Vasudevan Nair		
	D.	C. Achutha Menon		
11.	Whi	ch country recently became the 30	th me	mber of NATO in 2023?
	A.	Sweden	B.	Finland
	C.	Ukraine	D.	Georgia
12.	Who		ve as	the Vice President of the United
	A.	Hillary Clinton	B.	Kamala Harris
	C.	Michelle Obama	D.	Nancy Pelosi
13.		ch major tech company announce tbot <i>Chat GPT in</i> late 2022?	d the	development of its own Al- driven
	A.	Google	B.	Microsoft
	C.	OpenAl	D.	Apple
14.	Goo	ogle Bard is powered by which of th	e foll	owing technologies?
	A.	LaMDA	B.	GPT-3
	C.	Gemini	D.	BERT
15.	Wha	at shortcut is used to insert a hyper	link iı	n MS Word?
	A.	Ctrl + K	B.	Ctrl + N
	C.	Ctrl + P	D.	Ctrl + T
16.	Whi	ch of the following is NOT a type o	f mal	ware?
	A.	Virus	B.	Worm
	C.	Trojan horse	D.	Router

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17.	In Microsoft Excet, which of the following formulas will give you the sum of numbers in cells A1 to A10?				
	A.	=SUM(A1:A10)			
	B.	=ADD(A1:A10)			
	C.	=TOTAL(A1:A10)			
	D.	=SUM(A1, A10)			
18.		ch of the following file extensions is typically associated with a Microsoft verPoint presentation?			
	A.	.pptx Bxlsx			
	C.	.docx Dtxt			
19.		are running low on storage space on your hard drive. Which of the wing will help you free up space without affecting system performance?			
	A.	Delete the swap file			
	B.	Delete old user accounts			
	C.	Empty the Recycle Bin and remove temporary files			
	D.	Remove the operating system			
20.	Wha	at does the acronym 'URL' stand for?			
	A.	Uniform Resource Locator			
	B.	Universal Resource Locator			
	C.	Uniform Reference Locator			
	D.	Universal Reference Locator			
21.	Iden	tify the correct sentence with a conditional verb form.			
	A.	If she would study she would pass the exam.			
	B.	If he had studied, he will pass the exam.			
	C.	If I had known, I would have told you.			
	D.	If you eat too much, you will gained weight.			

22.	Whi	Which of the following sentences is in the passive voice?						
	A.	A. The teacher explains the lesson every day.						
	B.	B. The lesson is explained by the teacher every day.						
	C.	The teacher will explain the lesso	n.					
	D.	The teacher explained the lesson		erday.				
23. A train 200 meters long is moving at a speed of 72km/h. How long to cross a platform 300 meters long?				eed of 72km/h. How long will it take				
	A.	20 seconds	B.	25 seconds				
	C.	30 seconds	D.	36 seconds				
24.		workers can complete a job in 12 kers to complete the same job?	2 day	s, how many days will it take for 6				
	A.	6 days	B.	8 days				
	C.	9 days	D.	10 days				
25.	5. The ratio of the ages of two friends is 4:5. If the sum of their ages is 72, what the age of the younger friend?							
	A.	32 years	B.	28 years				
	C.	36 years	D.	30 years				
26.		certain code language, "CAT" is ten in the same code?	writte	en as "DBU". How would "DOG" be				
	A.	EPH	B.	EPJ				
	C.	EQH	D.	FQG				
27.	Who	o wrote the famous novel "One Hur	ndred	I Years of Solitude"?				
	A.	Gabriel Garcia Márquez	B.	Mario Vargas Llosa				
	C.		D.	Julio Cortázar				
28.	Who	o was the first woman to win a Nob	el Pr	ize?				
	A.	Rosalind Franklin	В.	Marie Curie				
	C.		D.	Dorothy Crowfoot Hodgkin				
				·				

29.	Who A. B. C. D.	o directed the iconic 2019 film <i>Joke</i> Martin Scorsese Quentin Tarantino Todd Phillips David Fincher	er, sta	arring Joaquin Phoenix?	
30.	In the TV series <i>Money Heist</i> , what is the name of the mastermind behind the heists?				
	A.	Berlin	B.	Tokyo	
	C.	The Professor	D.	Nairobi	
31.	Who	o is the author of the book <i>"The Re</i>	publi	c of Caste"?	
	A.	Arundhati Roy	B.	Kancha llaiah	
	C.	Chetan Bhagat	D.	Shashi Tharoor	
32.	A. T B. T C. T	Pelhi Crime, which real-life event is the 2016 Delhi riots the 2012 Delhi gang rape the 2008 Mumbai attacks the 1993 Bombay bombings	the s	eries based on?	
33.		ch prestigious award did <i>All We li</i> tival 2024?	magii	ne as Light win at the Cannes Film	
	A.	Palme d'Or	B.	Grand Prix	
	C.	Best Director	D.	Jury Prize	
34.		ch Malayalam film won the Best F ards?	ilm a	ward at the 48 th Kerala Film Critics	
	A.	Feminichi Fat hima			
	B.	Nanpakal Nerathu Mayakkam			
	C.	Aadujeevitham			
	D.	2018			

- 35. What central issue does the Netflix series Adolescence primarily explore?
 A. Teenage romantic relationships
 B. The impact of online radicalization on youth behavior
 C. Academic pressures faced by high school students
 D. The challenges of transitioning to college life
- 36. Which year did Russia launch its full-scale invasion of Ukraine, marking a major escalation in the conflict?

A. 2014 B. 2018 C. 2020 D. 2022

- 37. Which bridge, currently under construction in China, is set to become the world's tallest upon its completion, with a height of 625 meters from deck to ground?
 - A. Duge Bridge
 - B. Beipan River Guanxing Highway Bridge
 - C. Zhijing River Bridge
 - D. Huajiang Canyon Bridge
- 38. Which crew replaced Sunita Williams and her team aboard the International Space Station in March 2025?
 - A. SpaceX Crew-9
 - B. SpaceX Crew-10
 - C. Soyuz MS-27
 - D. Boeing Starliner-1
- 39. Which astronauts returned to Earth with Sunita Williams and her team aboard SpaceX's Dragon capsule in March 2025?
 - A. Anne McClain, Nichole Ayers, Takuya Onishi
 - B. Nick Hague, Aleksandr Gorbunov, Barry Wilmore
 - C. Matthew Dominick, Michael Barratt, Jeanette Epps
 - D. Sergey Ryzhikov, Alexey Zubritsky, Jonny Kim

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40.	Which music group, during their "Music of the Spheres' world tour, performed in Mumbai and Ahmedabad in January 2025, marking their first Indian concert in nearly a decade?			
	A.	Coldplay	B.	U2
	C.	The Rolling Stones	D.	OneRepublic
41.	Wha	at was Hayao Miyazaki's reaction to	Al-g	generated animation in 2016?
	A.	He embraced the technology, see	ing it	as the future of animation.
	B.	He expressed being 'utterly disgus	sted"	by Al-generated animation.
	C.	He collaborated with Al developer	s to d	create new animation styles.
	D.	He praised the technology for its p	oten	tial to enhance creativity.
42.	. BTS's record-breaking English single "Dynamite" is part of which 2020 album reflecting themes of hope during the pandemic?			
	A.	BE	B.	Love Yourself: Tear
	C.	Map of the Soul: 7	D.	Wings
43.	Be,"	• •		nown for hits like "Hey Jude," "Let It ered one of the greatest and most
	A.	The Rolling Stones	B.	The Beatles
	C.	The Who	D.	Led Zeppelin
44.		ch book, written by Arundhati Roy Kashmir and the Indian government		s banned in India due to its stance tions in the region?
	A.	The Ministry of Utmost Happiness		
	B.	Field Notes on Democracy		
	C.	The God of Small Things		
	D.	An Ordinary Person's Guide to En	npire	

45.		ch Japanese author is known for ka on the Shore, blending elements		ks such as <i>Norwegian Wood</i> and urrealism and romance?	
	A.	Yukio Mishima			
	B.	Haruki Murakami			
	C.	Kenzaburō Ōe			
	D.	Ryu Murakami			
46.	Wha	at is Sci-Hub primarily known for in	the c	context of scientific publishing?	
	A.	Providing open access to freely av	/ailal	ole research papers	
	B.	Offering paid subscriptions to journ	nals		
	C.	Providing illegal access to paywall	ed s	cientific papers	
	D.	Publishing academic research artic	cles		
47.	. Which organization or platform provides a mechanism for authors to make their work openly available, particularly in academic and research publishing?				
	A.	SpringerLink			
	B.	Creative Commons			
	C.	Nature Publishing Group			
	D.	Wiley Online Library			
48.	Whi	ch of the following is true about INF	LIBI	NET's <i>Shodhganga</i> repository?	
	A.	It archives only Indian journals and	d ma	gazines	
	B.	It provides free access to PhD theses and dissertations from Indian universities			
	C.	it is a platform for submitting resea	arch	papers to be published	
	D.	It is a commercial database for bu	ying	research articles	
49.		ch platform is specifically design ering collaboration among research		for sharing academic papers and globally?	
	A.	Mendeley	B.	ResearchGate	
	C.	Zotero	D.	LinkedIn	

- 50. What is the primary goal of the One Nation One Subscription initiative in India?
 - A. To provide universal access to all academic journals and research papers across India
 - B. To encourage the subscription of local newspapers for all citizens
 - C. To offer one-time subscriptions to Indian students for online courses
 - D. To promote the use of digital platforms for e-commerce in India
- 51. Which of the following libraries is the largest in the world by the number of items held in its collection?
 - A. The British Library (UK)
 - B. The Library of Congress (USA.
 - C. The National Library of China (China).
 - D. The Vatican Library (Vatican City)
- 52. Which famous library is located in Egypt, and was considered one of the largest libraries of the ancient world?
 - A. Library of Celsus
 - B. The Library of Alexandria
 - C. Bodleian Library
 - D. The Vatican Library
- 53. Which of the following is an initiative by the Indian government to digitize libraries and make information accessible?
 - A. Digital India

B. N-LIST

C. Shodhganga

D. All of the above

- 54. What is the primary difference between data and information?
 - A. Data is processed, while information is raw
 - B. Data is raw, while information is processed
 - C. Data is stored, while information is transmitted
 - D. Data is unstructured, while information is structured

55.	5. What is tacit knowledge?						
	A.	Knowledge that is written down ar	nd ea	sy to communicate			
	B.	Knowledge based on facts and figures					
	C.	Personal, experiential knowledge difficult to document					
	D.	Knowledge shared through social	med	ia			
56.	Whi		ıble f	or free and can be accessed by the			
	A.	Proprietary data					
	B.	Open data					
	C.	Encrypted data					
	D.	Big data					
57.		ch social media platform launche ter (X)?	ed th	e 'Threads' app to compete with			
	A.	Snapchat	B.	Meta (Instagram)			
	C.	TikTok	D.	LinkedIn			
58.	Wha	at is the term for false information s	prea	d intentionally on social media?			
	A.	Misinformation	B.	Disinformation			
	C.	Propaganda	D.	News leak			
59.	Wha		non (Gen Z experience related to social			
	A.	First Online Media Option					
	B.	Fear Of Missing Out					
	C.	Focus On Main Objective					
	D.	Fun Or Meaningless Option					
60.	Whi	ch of these is a popular gaming live	e-stre	eaming platform?			
	A.	Twitch	B.	Netflix			
	C.	Discord	D.	Reddit			

61.	Whi	ch game is known for its "sus" men	ne ar	nd crewmate/impostor gameplay?		
	A.	Roblox	B.	Among Us		
	C.	Minecraft	D.	Valorant		
62.	Wha	at does "delulu" mean online?				
	A.	Being super logical				
	B.	Being fake				
	C.	Being overly optimistic or in denia	I			
	D.	Being rude				
63.	Which Indian female wrestler qualified for the 2024 Paris Olympics?					
	A.	Vinesh Phogat				
	B.	Sakshi Malik				
	C.	Babita Kumari				
	D.	Sonam Malik				
64.		o is the current captain of the Ind	ian v	women's cricket team (ODI & T20)		
	A.	Smriti Mandhana				
	B.	Shafali Verma				
	C.	Harmanpreet Kaur				
	D.	Jemimah Rodrigues				
65.	Whi	ch contemporary feminist writer au	thore	ed 'We Should All Be Feminists"?		
	A.	Bell Hooks				
	B.	Gloria Steinem				
	C.	Chimamanda Ngozi Adichie				
	D.	Arundhati Roy				

66.	6. Who was the African-American singer and activist whose song "Mississ Goddam" became a civil rights anthem?							
	A.	Ella Fitzgerald	B.	Nina Simone				
	C.	Billie Holiday	D.	Diana Ross				
67.	Who	o wrote <i>The Second Sex,</i> a foundat 9?	ional	feminist text published in				
	A.	Virginia Woolf						
	B.	Simone de Beauvoir						
	C.	Betty Friedan						
	D.	Kate Millett						
68.	3. M.Kunjaman is best known for his contributions to which of the following fields?							
	A.	Malayalam Cinema						
	B.	Feminist Literature						
	C.	Dalit Studies and Social Justice						
	D.	Classical Music						
69.	 Which movement, initiated by Ayyankali, aimed at allowing lower cas children to attend public schools? 							
	A.	Temple Entry Movement						
	B.	Channar Revolt						
	C.	Villuvandi Samaram						
	D.	Kudumbashree						
70.	Whi	ch prominent Malayalam film direct	or di	rected the movie <i>Chidambaram?</i>				
	A.	Sathyan Anthikad						
	B.	G. Aravindan						
	C.	Adoor Gopalakrishnan						
	D.	Priyadarshan						

- 71. Which book, written by Dr. B. R. Ambedkar, critiques the caste system and discusses the social injustice faced by Dalits in India?
 - A. The Problem of the Rupee
 - B. Annihilation of Caste
 - C. The Untouchables
 - D. Thoughts on Linguistic States
- 72. The discovery of the Higgs Boson particle in 2012 is associated with which of the following?
 - A. Theoretical advancements in astrophysics
 - B. The Large Hadron Collider (LHC).
 - C. Human Genome Project
 - D. The development of nuclear energy
- 73. Which scientific principle or theory challenges the conventional religious explanation of the origin of the universe, as discussed in modern scientific temper?
 - A. Theory of Evolution
 - B. Big Bang Theory
 - C. Quantum Mechanics
 - D. Theory of Relativity
- 74. Which of the following is NOT a step in the scientific method?
 - A. Hypothesis formulation
 - B. Data collection
 - C. Making predictions based on intuition
 - D. Analyzing data

- 75. You are conducting an experiment to test the effect of light on plant growth. You place one group of plants under bright light and another in a dark room. After 2 weeks, you measure the growth of the plants. Which factor is the independent variable in this experiment?
 - A. The growth of the plants
 - B. The type of plants used
 - C. The amount of water given
 - D. The amount of light exposure
- 76. A researcher is conducting an experiment on the effect of a new pesticide on crop yield. After collecting data, the researcher decides to only publish results that show positive outcomes and omits any negative findings. Which of the following ethical violations does this behavior represent?
 - A. Informed consent

B. Data falsification

C. Plagiarism

- D. Intellectual dishonesty
- 77. In a research study, a scientist observes that their findings contradict their original hypothesis. Which of the following woud be the most appropriate course of action for the scientist?
 - A. Ignore the findings and stick to the original hypothesis
 - B. Modify the hypothesis to fit the results
 - C. Report the findings honestly, regardless of whether they align with the hypothesis
 - D. Discard the data and repeat the experiment without analyzing the results
- 78. Which of the following is an example of an ethical issue that could arise in scientific research?
 - A. Using data analysis software
 - B. Ensuring participants' privacy and confidentiality
 - C. Writing a research paper
 - D. Testing hypotheses

79.	In which year did Twitter officially rebrand to X?						
	A.	2022	B.	2023			
	C.	2024	D.	2021			
80.	. Which CEO is known for his controversial 2023 acquisition of Twitter an subsequent rebranding to "X"?						
	A.	Jack Dorsey					
	B.	Elon Musk					
	C.	Mark Zuckerberg					
	D.	Tim Cook					
81. Which party did Abraham Lincoln belong to when he was elected pre 1860?				o when he was elected president in			
	A.	Republican Party					
	B.	Democratic Party					
	C.	Whig Party					
	D.	Federalist Party					
82.	2. Who was the first African-American president of the United States?			nt of the United States?			
	A.	George W. Bush					
	B.	Barack Obama					
	C.	Bill Clinton					
	D.	John F. Kennedy					
83. Who is known as the "Father of Library Science in India"?			ence in India"?				
	A.	Melvil Dewey					
	B.	SR. Ranganathan					
	C.	B.S. Kesavan					
	D.	R.C. Sharma					

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84.	4. Which is the oldest existing library in India?					
	A.	Saraswathi Mahal Library				
	B.	Asiatic Library, Mumbai				
	C.	Khuda Bakhsh Library				
	D.	Calcutta Public Library				
85.		Which ancient Indian library, known as Dharmaganja, was part of a major Buddhist university and was destroyed during an invasion in the 12 th century?				
	A.	Vikramashila Library				
	B.	B. Nalanda Library				
	C.	. Takshashila Library				
	D.	Ujjain Library				
86. Which group is considered the legitimate represent people by the UN?				representative of the Palestinian		
	A.	Hamas	B.	Fatah		
	C.	PLO	D.	Islamic Jihad		
87.	Wha	What is the 'Nakba" in Palestinian history?				
	A. T	A. The name of a peace treaty				
	B. A	B. A refugee camp				
	C. T	C. The Palestinian uprising				
	D. T	D. The mass displacement of Palestinians in 1948				
88.	The famous slogan 'One Caste, One Religion, One God for Mankind" was given by,					
	A.	. Chattampi Swamikal				
	B. Ayyankali					
	C.	C. Sree Narayana Guru				
	D. Mannathu Padmanabhan					

89.	Who founded the Sadhu Jana Paripalana Sangham in 1907?					
	A.	Sree Narayana Guru	B.	Ayyankali		
	C.	Kumaran Asan	D.	Sahodaran Ayyappan		
90.	Whi	hich vitamin is synthesized in human skin when exposed to sunlight?				
	A.	Vitamin A	B.	Vitamin B12		
	C.	Vitamin C	D.	Vitamin D		
91.	Which country achieved the first successful human organ transplant using a 3D-printed organ in 2023?					
	A.	USA	B.	China		
	C.	India	D.	Russia		
92. Which scientific theory is most prominently featured and plays a key plot of the movie 'Interstellar"?				featured and plays a key role in the		
	A.	String theory	B.	Quantum mechanics		
	C.	General relativity	D.	Evolutionary theory		
93.	What was the primary effect of the Jammu and Kashmir Reorganization Act 2019, following the abrogation of Article 370?					
	A.	A. It created two separate Union Territories: Jammu & Kashmir and Ladakh				
	B. It restored the special status of Jammu and Kashmir					
	C. It merged Jammu and Kashmir with Himachal Pradesh					
	D.	D. It provided Jammu and Kashmir with a separate legislative assembly				
94.	Nubra Valley is located in which Indian state/union territory?					
	A. Himachal Pradesh					
	B. Jammu & Kashmir					
	C.	C. Ladakh				
	D.	D. Uttarakhand				

95. Which Indian university signed an agreement with NASA in 2021 on space technology and research?A. University of Hyderabad				nt with NASA in 2021 to collaborate		
	B. Indian Institute of Technology (IIT) Madras					
	C.	Jawaharlal Nehru University (JNU	•			
	D.	Indian Institute of Space Science	•	Technology (IIST)		
		•		37 ()		
96.	6. Which of the following strategies involves buying stocks or assets in the that their prices will rise over time?			ouying stocks or assets in the hope		
	A.	Short selling	B.	Day trading		
	C.	Long position	D.	Arbitrage		
97. Which of the following describes the "Forex market?			market?			
	A.	A market for trading stocks and bonds				
	B.	A market for buying and selling currencies				
	C.	A market for trading real estate				
	D.	-				
98.	Which animated film won the Academy Award for Best Animated Feature 2025?			ward for Best Animated Feature in		
	A.	Inside Out 2	В.	The Wild Robot		
	C.	Flow	D.	Memoir of a Snail		
99.	Which 2021 report revealed a drastic decline in press freedom in India, calling it one of the worlds most dangerous places for journalists?					
	A.	Freedom House Report				
	B.	Human Rights Watch Report				
	C.	Reporters Without Borders Report				
	D.	United Nations Human Rights Council Report				
100. Which is the primary conflict in the Bastar region in recent times?						
	A.	Water rights	B.	Maoist insurgency		
	C.	Border disputes	D.	Religious tensions		

RESPONSE SHEET

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

ROUGH WORK

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