CAREERS 360

CU-CET

Sample Paper 2022 with Solutions by Career Launcher









CUCET Mock 1 - 2022

Numerical Aptitude

Q 1. A train on its way took 1 much time does the train requ	0 seconds to cross a 100 m long ire to cross a stationary man?	bridge and 20 seconds to cross	s a 500 m long platform. How
A) 6 seconds	B) 7.5 seconds	C) 9 seconds	D) 5 seconds
-	ress, leaves Lucknow at 6 a.m. a e Bhopal at 4 p.m. on the same o s?		
A) 40 km/hr	B) 50 km/hr	C) 30 km/hr	D) 60 km/hr
Q 3. The speed of a boat in s 45 min. What is the speed of s		km upstream and return downs	stream to the engine point in 2 h
A) 5 km/h	B) 4 km/h	C) 3 km/h	D) 2 km/h
·	a certain work in 20 days, while B I him after a few days such that t	•	
A) 4	B) 8	C) 12	D) 10
A CONTRACTOR OF THE PROPERTY O	ed simultaneously into the cistern	•	n empty the full tank in 60 hours. ke to fill the tank?
A) 24	B) 27	C) 30	ke to fill the tank? D) 33
•	ther, mother, son and daughter. If to the weight of the mother is 5 : ght of the mother.		_
A) 45 kg	B) 60 kg	C) 55 kg	D) 50 kg
of Munna's investment and tw	flunna and Lucky started a busing times of Ashok's investment was 2392, then what was the absolute	as equal to three times of Munn	a's investment. At the end of the
A) Rs. 552	B) Rs. 736	C) Rs. 368	D) Rs. 184
Q 8. Marked price of an article selling price (in Rs.) of the article	le is Rs. 200. If three successive cle.	discounts of 20%, 30% and 50°	% are offered, then find the
A) 72	B) 96	C) 103	D) 56
	om of a tank. This leak can empt tres per hour and the tank is now	•	· · · ·
A) 28.8 litres	B) 36 litres	C) 144 litres	D) 145 litres
Q 10. A man is five years old	ler than his wife, who in turn is th	ree times as old as their son, w	ho was 13 years old two years

back. What is the present age of the man?

A) 40 years	B) 45 years	C) 50 years	D) 55 years
Q 11. The ratio of milk and waresultant mixture contains 50%	ater in a mixture is 3 : 1. What fra	action of the mixture should be	replaced by water so that the
A) 1/10	B) 1/4	C) 1/3	D) 1/5
	s 5 pencils, 5 pencils cost as mu is Rs 48, then what is the cost		ost as much as 2 geometry box.
A) Rs.50	B) Rs.100	C) Rs.150	D) Rs.200
	days and Q can break it in 5 da leaves the work. In how many of	•	
A) 12	B) 11	C) 14	D) None of these
Q 14. The price of a machine percentage increase/decrease	increases by 20% in a year and in the price of the machine?	$16\frac{2}{3}\%$ in % in	the following year. What is net
A) 1% increase	B) neither increase, nor decrease	C) 1% decrease	D) 2% decrease
Q 15. What is the value of 1.34	+ 4.12?		
A) 133/90			
B) 371/90			
c) $5\frac{219}{990}$ p) $5\frac{461}{990}$	Career Launcher		Career Launche
	a class, with strength of 40 stude f the expelled students was 16 y		
A) 24	B) 20	C) 28	D) 16
Q 17. Before 3 years, the averamily is now 17 years. The pre-	erage age of a five-member familesent age of the baby is:	ly was 17 years. A baby having	been born and the average of
A) 3 years	B) 2 years	C) 1 year	D) None of these
		nembers is to be formed. Find the	ne probability that the committee
A) 2/3	B) 1/3	C) 4/5	D) None of these
•	utes less, if he increases the usu of his car by 15 km/hr. Find the	•	and takes 45 minutes more, if
A) 190 km/hr	B) 170 km/hr	C) 250 km/hr	D) 220 km/hr
1	career		Career

Q 20. The mean of 25 observing the value of 13th observation		3 observations is 32 and that of	last 13 observations is 39. What
A) 20	B) 23	C) 32	D) 40
· · · · · · · · · · · · · · · · · · ·	n, which was not January, was V as the day on the 1 st day of the B) Tuesday	•	ext to next month in the same D) Sunday
Q 22. At what time after 3:20	p.m. will the hour and minute ha	ands of a clock make an angle c	f 75°?
A) 3:22 p.m.	B) 3:24 p.m.	C) 3:28 p.m.	D) 3:30 p.m.
	of money in a bank at a certain ra 380 at the end of the fifth year. I	•	amounts to Rs. 1,290 at the end
A) Rs. 930	B) Rs. 1,150	C) Rs. 1,040	D) Rs. 720
		C) 19/25 : 6 : 7. If the circumference of the	D) 25/19 ne smallest circle is ' cπ ', find the
average of the areas of the circ	cles		
average of the areas of the circ A) $3\pi c^2$	cles. Β) 4πc ²	C) 5πc ²	D) 6πc ²
_	B) 4πc ²	c) 5πc ² (nowledge	D) 6πc ²
A) 3πc ²	B) 4πc ²	Cnowledge	
A) 3πc ² Q 26. What is the rank of Indi A) 125	B) 4πc ² General F a in the UN World Happiness Re B) 127	Cnowledge	D) 6πc ²
A) $3\pi c^2$ Q 26. What is the rank of Indi	B) 4πc ² General F a in the UN World Happiness Re B) 127	(nowledge	
 A) 3πc² Q 26. What is the rank of Indi A) 125 Q 27. Comoros is a volcanic at A) Pacific Ocean 	B) 4πc ² General K a in the UN World Happiness R B) 127 archipelago in: B) Arctic Ocean banks relaunched its Aadhaar-banks	Eport- 2020? C) 140 C) Atlantic Ocean	D) 144 Career Launche Launche D) Indian Ocean
 A) 3πc² Q 26. What is the rank of Indi A) 125 Q 27. Comoros is a volcanic at A) Pacific Ocean Q 28. Which of the following to 	B) 4πc ² General K a in the UN World Happiness R B) 127 archipelago in: B) Arctic Ocean banks relaunched its Aadhaar-banks	Eport- 2020? C) 140 C) Atlantic Ocean	D) 144 Career Launche Launche D) Indian Ocean
 A) 3πc² Q 26. What is the rank of India A) 125 Q 27. Comoros is a volcanic at A) Pacific Ocean Q 28. Which of the following by want to open an online account A) Union Bank of India 	B) 4πc² General κ a in the UN World Happiness Ro B) 127 archipelago in: B) Arctic Ocean coanks relaunched its Aadhaar-bat using the Yono platform?	eport- 2020? c) 140 c) Atlantic Ocean ased instant digital savings accord c) State Bank of India	D) 144 D) Indian Ocean ount facility for customers who D) Canara Bank
 A) 3πc² Q 26. What is the rank of India A) 125 Q 27. Comoros is a volcanic at A) Pacific Ocean Q 28. Which of the following by want to open an online account A) Union Bank of India Q 29. 'SHAKTI' scheme, som A) Coal 	General κ a in the UN World Happiness Ro B) 127 archipelago in: B) Arctic Ocean banks relaunched its Aadhaar-bat using the Yono platform? B) Punjab National Bank etimes appears in the news, is r B) Banking	eport- 2020? C) 140 C) Atlantic Ocean ased instant digital savings accord C) State Bank of India related to which of the following C) Skill Development	D) 144 D) Indian Ocean ount facility for customers who D) Canara Bank
 A) 3πc² Q 26. What is the rank of India A) 125 Q 27. Comoros is a volcanic at A) Pacific Ocean Q 28. Which of the following by want to open an online account A) Union Bank of India Q 29. 'SHAKTI' scheme, som A) Coal Q 30. At present, the world's and the coal 	General κ a in the UN World Happiness Re B) 127 archipelago in: B) Arctic Ocean banks relaunched its Aadhaar-bat using the Yono platform? B) Punjab National Bank etimes appears in the news, is re B) Banking largest e-waste recycling facility	eport- 2020? C) 140 C) Atlantic Ocean ased instant digital savings accord C) State Bank of India related to which of the following C) Skill Development is located in:	D) 144 D) Indian Ocean bunt facility for customers who D) Canara Bank affairs? D) Telecom Services
 A) 3πc² Q 26. What is the rank of India A) 125 Q 27. Comoros is a volcanic at a part of the following the want to open an online account and the part of the following the want to open an online account and the part of the following the want to open an online account and the part of the part o	General κ a in the UN World Happiness Ro B) 127 archipelago in: B) Arctic Ocean banks relaunched its Aadhaar-bat using the Yono platform? B) Punjab National Bank etimes appears in the news, is r B) Banking	eport- 2020? c) 140 c) Atlantic Ocean ased instant digital savings according to the following control of the following co	D) 144 D) Indian Ocean cunt facility for customers who D) Canara Bank affairs? D) Telecom Services

A) Rehana Moldova	B) Maryam Mirzakhani	C) Grace Brewster Murray	D) Karen Uhlenbeck
Q 32. Rupay card was launch	ed by which among the following	g?	Career
A) RBI	B) MasterCard	C) Visa	D) NPCI Launch
Q 33. The famous "Crystal Aw	vard" is associated with:		
A) World Bank	B) NASA	C) World Economic Forum	D) IMFD
Q 34. Heena Sidhu is related	to which sport:		
A) Shooting	B) Horse Riding	C) Boxing	D) Archery
Q 35. Which Indian state sign	ed a contract to set up the first e	ethanol plant in country under th	/ Careel
A) Haryana	B) Gujarat	C) Chhattisgarh	D) Jharkhand
Q 36. Name the Chief Ministe	r who has been conferred the S	koch Chief Minister of the Year	Award recently?
A) K. Chandrashekar Rao	B) Edappadi K. Palaniswami	C) Y. S. Jagan Mohan Reddy	D) Yogi Adityanath
Q 37. Recently, The National lines of WhatsApp.	Informatics Centre has launched	d an instant messaging platform	calledon the
A) Sandes	B) Chitthi	C) Aamantran	D) HumsApp
Q 38. Who among the followir digitisation of payments across	ng has recently constructed a co	emposite Digital Payments Index	x (DPI) to capture the extent of
A) NABARD	B) SIDBI	C) Reserve Bank of India	D) Ministry of Finance
• • • • • • • • • • • • • • • • • • • •	RBI as the head of the eight-me	•	orehensively review and provide
A) Uday Kotak	B) NS Vishwanathan	C) TS Vijayan	D) U.K. Sinha
Q 40. Recently, who became	the first person to hit the 250 mil	llion mark on Instagram?	
A) Lionel Messi	B) Cristiano Ronaldo	C) Brad Pitt	D) Michael Jordan
<i>7</i> /-	Data Inte	rpretation	Launch

Directions (Q. 41 to 45): Answer the questions on the basis of the information given below.

The table given below shows the populations of six cities.





City	Total Population	Percentage of adult	Percentage of children
		Males	below 18 years of age
Gujarat	68300000	45	12
Chandigarh	42500000	53	14
Bangalore	71200000	52	13
Delhi	93500000	49	11
Chennai	54500000	41	15
Mumbai	81200000	43	16

Mumbai	81200000	43	16	;	Laura
	g are adult female percent is the number of	es f adult males in Bangalore	e and Delhi more than t	that of adult fe	males in the same
A) 33%	B) 30%	C) 35%	D) 35.	9%
Q 42. The numl	per of children in Mumb	ai is what percent of the r	number of adult females	s in the same	city?
A) 35	B) 39	eer c) 42	D) 43	/ Career
Q 43. The differ	ence between the num	ber of adult females in Gu	ıjarat and Delhi is	7	Launche
A) 8031000	B) 830	1000 C) 8130000	D) 823	
Q 44. What is the	ne adult population in C	handigarh and Mumbai?			
A) 107458000	B) 104	758000 C) 104458000	D) 114	458000
Q 45. What is ra	7458000 B) 104758000 C) 104458000 What is ratio of total population of Delhi and Chennai?				
A) 187 : 109	B) 187	: 119 C) 119 : 187	D) 129	9 : 187
	Car Lav	eer incherEngl	ish	*	Launche Launche
Out of the four alte	ernatives, choose the one	which best expresses the r	meaning of the given wor	d.	
A) Clamorous	B) Scra	ар С) Agile	D) Urb	pane
Q 47. MOROSE	<u> </u>				
A) Humble	B) Mor	sel C) Sullen	D) Re	ougnant
Q 48. BAMBOO	DZLE B) Mys	eer incher _{lify} c) Thrash	D) Re	Career inquish aunche
Q 49 . FNSCON	ICF				

A) To surround B) To promote

C) To honour D) To hide

Q 50. INGRATIATE

C) To gain favor **D)** To feel delighted A) To regret B) To provoke

Q 51. AUGURY

C) Refuge A) Dispute

Read the passage carefully and choose the best answer to each question out of the four alternatives

Passage - I

Husain explored the female form and its extension cartographically as the imagined 'Mother India' at critical junctures within the nation. Sumathi Ramaswamy analyses Husain's approach in her new book "Barefoot Across the Nation: Maqbool Fida Husain and the Idea of India". She draws historical parallels with similar images appearing in popular culture. The concept made popular from early 1920s has become integral to the historical tradition in visual art, which ironically with Husain's delineation has raised questions and aggressive behaviour from the public and others, though his iconography loops to modernist methodology of essential reductionism, with contouring of her form to fit within the Indian map.

The analysis of Husain's works through themes and subject matter which accords him the status of a "quintessential 'civilizational' artist in the Nehruvian mode" due to its iconography putting his art on trial marks the central theme of historians David Gilmartin and Barbra D. Metcalf. They have argued that Husain has searched for an underlying civilizational spirit, refusing to draw clear-cut lines between Hindu and Muslim. Both authors offer critical, nuanced reading of the 2008 Delhi High Court Judgment by Justice Kaul, which vindicated Husain's right as an Indian citizen to paint civilisational themes but also the importance of India's free construction of its own culture and national identity by its artist. Extending the idea further Kajri Jain the Art Historian, reasons and argues the recurrent attacks on Husain's works within the context of the politics of desecration in the public sphere from mid 1980s. She questions this through the "image" rendered by a minority artist making it a privileged site for Hindutva violence, in "their choice of weapons" marking Husain's detractors as grieved victims of hurt sentiments.

- **Q 52.** What, according to the passage, is the root cause for the attacks on MF Husain's works in India?
- A) Sumathy Ramaswamy chose to write a book on Husain, a minority in India.
- B) M.F. Husain shunned the traditional method of painting and adopted the modernist methodology of essential reductionism.
- C) Husain painted Mother India in various manifestations and this hurt the sentiments of the majority.
- D) Despite belonging to a minority community in India, Husain made some remarks that hurt the sentiments of the minority.
- Q 53. Which of the following is implied by the last sentence of the passage: "She questionshurt sentiments."
- A) Kajri Jain questions the legal system of the country that can try an artist in response to public outrage.
- B) Kajri Jain moans the predicament of the intellectual majority of the country.
- C)

Kajri Jain accuses Husain for having experimented with the female form in India, knowing very well that it would offend the Hindu majority.

D)

Kajri Jain accuses those who believe in the ideology of Hindutva of choosing Husain's works as a weapon to cause violence to settle their religious outrage.

- **Q 54.** Which of the following statements is in agreement with the information given in the passage about Gilmartin and Metcalf?
- A) Gilmertin and Metcalf analyse the impact Husain's art has had on the revolution of Hindutva sentiments in the country.
- B) Gilmertin and Metcalf support the 2008 Delhi High Court Judgment by Justice Kaul on Husain's work.
- C)
- Gilmertin and Metcalf are of the opinion that Husain has explored an underlying civilizational spirit without drawing lines between Hindus and Muslims.
- **D)** Gilmertin and Metcalf do not consider art to have a role in constructing culture and national identity.
- **Q 55.** Which of the following is least likely to be inferred from the passage?
- A) The works of Husain since the 1980s have been venerated by the masses as well as the polity.

B) In his works, M.F. Husain of	depicted Mother India in her vari	ous manifestations.	Career							
C) The polity has accused Hu	usain of blasphemy.		Launche							
D) The works of Husain since	e the 1980s have been attacked l	by the masses as well as the po								
	in visual art, since 1920s, has int at critical junctures within the nat	•	ale form the depiction of							
Which of the following best fits	the blank above?									
A) to	B) into	C) along with	D) as							
suggested for each question. Cho	61: Sentences are given with bla cose the correct alternative out of the tarrible was going to happen.		oriate word(s). Four alternatives are							
A) an opinion	B) a thought	C) a feeling	D) an expectation							
Q 58. By the of it you have	ve had a difficult time.									
A) sound	B) noise	C) tone	D) tune							
Q 59. He took up football as a	an for his energies.									
A) output	B) outset	C) outlet	D) outbreak							
Q 60. She cant be very old, n	ot more than twenty at		Career							
A) highest	B) top	C) most	D) all							
Q 61. It is not to let young	g children cross the road alone.									
A) penurious	B) plausible	C) prudent	D) preferable							
which best expresses the meaning	ery hard trying to bring home the	e bacon.								
A) earn a living	Career	B) learn the art of preparing b	acon at home							
C) repair his house	ery mard trying to bring nome the	D) make his house free from								
Q 63. Hes so simple that you	have to spell everything out to h	nim.								
A) give the spellings of some	thing	B) read out something								
C) explain something in a det	ailed way	D) give fictitious details about something								
Q 64. I hate it when my sister	noses around my room.									
A) touches around	B) smells around	C) moves cautiously	D) snoops around							
Q 65. That man is a rotten eg	g so you should try and avoid hi	m if you can.	Career Launche							
A) unhygienic person	B) bad influence	c) someone who uses foul language	D) someone with double standards							

Directions for questions 66 to 70: In the following questions part of the sentence is underlined. Below are given alternatives to the

underlined part (A), (B) and (C), your answer is (D).	which may improve the sentence	. Choose the correct alternative.	In case no improvement is needed
•	school although a farmer, his fa	ther, had a stroke and was una	ble to work.
A) finally when his farmer fath	er had a stroke and was render	ed unable to work.	Career
B) after his father, a farmer, ha	ad a stroke and was unable to w	ork.	Launche
C) in lieu of his father, a farme	er, who had a stroke and was un	able to work.	Mr. Frank
D) No error			
underlined part (A), (B) and (C), your answer is (D).	- •	. Choose the correct alternative.	Below are given alternatives to the In case no improvement is needed
A) keeps a guards watch in th	e building material	B) kept an eye of a watchdog	on the building materials
C) kept an eye on the building	Careci.	D) No error	Career
underlined part (A), (B) and (C), your answer is (D).	which may improve the sentence	. Choose the correct alternative.	Below are given alternatives to the In case no improvement is needed olicemen working undercover in
A) suspects of belonging to B	asque separatist group ETA has	kill two Spanish policemen	
B) suspected of belonging to l	Basque separatist group ETA kil	led two Spanish policemen	
C) suspecting of belonging toD) No error	Basque separatist group ETA b	eing killed two Spanish policem	Career
Q 69. In order to prevent vehicroad surfaces.		s, they would have had planted	explosive devices, often deep in
A) they had planted explosive	devices, often deep under road	surfaces.	
B) they had planted explosive	device, often deep in road surfa	aces.	
C) they planted explosive dev	ices, particularly deep into road	surfaces.	
D) No error			
Q 70. The efforts that went int	o the setting up of booths in the	se troubled areas necessitated	attention to detail.
A) 3	B) went into the setting-up of	C)	attention to detail. D) No error
were taken in the setting of	, were more seeming up or	underwent in the setting up of	(and
Directions for questions 71 to 7 Q 71. ABHORRENT	75: Choose the word opposite in m	eaning to the given word.	
A) Terse	B) Attractive	C) Mature	D) Usual
Q 72. ABSTRUSE			
A) Crazy	B) Calm	C) Obvious	D) Boundless
Q 73. PROFANE	Launcher		Launche Launche
A) Sacred	B) Artless	C) Rigid	D) Aspersion

Q 74 . PERTINACIOUS			
A) Irretrievable	B) Insipid	C) Irresolute	D) Reproof
Q 75. IMPECUNIOUSNESS			
A) Smoothness	B) Carefree Reasoning & G	c) Affluence General Aptitud	D) Stability
Directions for questions 76 to 8 question. Q 76. Sword : Fight	30: In the following questions, iden	itify the pair of words which has a	relationship similar to the pair in the
A) Pen : Write	B) Computer : Electricity	C) Band : Dance	D) Paper : Draw
Q 77. Mouth : Flute			
A) Legs : Cello	B) Accordion : Hands	C) Cymbal : Elbow	D) Fingers : Guitar
Q 78. Weapon : War A) Cradle : Child	B) Sickle : Harvest	C) Google : Search	D) Electricity : Bulb
	b) Sickle . Harvest	Google . Search	D) Liectricity . Build
Q 79. Car : Fuel A) Bomb : Dynamite	B) Gun : Cartridge	C) Sitar : Strings	D) Band : Chorus
·	Guir : Cartiluge	of Sital . Strings	b) Balla . Chorus
Q 80. Igloo : Eskimo			
A) Nest : Hen	B) Bleat : Dog	C) Hill : Snake	D) Pen: Sheep
In the question, a series is given, Q 81. AJC, DKF, EMI, HPL, _	1 211.22	e correct alternative from the given	ones that will complete the series.
A) KTO	B) KSP	C) ITO	D) ISP
Q 82. BDF, QTW, GIK, VYB, 1	?		
A) LNP	B) NOQ	C) KOO	D) ADG
Q 83. Select the term that will	come in place of the question n	nark '?' in the following series.	
VTS, RPO, NLK, ?, FDC	Career		/ Career
A) HIK	B) JHG ncher	C) JIH	D) Jig Career Launche
Q 84. In question find the odd	word / number-pair from the give	ven alternatives.	
A) Chord	B) Trapezium	C) Square	D) Hexagon
Q 85. In the question find the	odd word / number-pair from the	e given alternatives.	
A) Pianist	B) Guitarist	C) Musician	D) Drummer
Q 86. In the question find the	odd word / number / number-pa	ir from the given alternatives.	/ Career

Directions for questions 71 to 75: Choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

A) Wool	B) Milk	C) Pearl	D) Raisin
Q 87. Find the odd word/lette	rs/number pair/number from the	given alternatives.	
A) Hockey	B) Football	C) Race	D) Table Tennis
Q 88. Find the odd word/lette	rs/number pair/number from the	given alternatives	
A) Root	B) Flower	C) Fruit	D) Leaves
	n a way such that they form a ci sh is between Ramesh and Kam		. / Cares
A) Amit	B) Sunil	C) Ramesh	? D) Pankaj
-	il is written as pen, pen is written or and protractor is written as bo		ruler, ruler is written as compass
A) compass	B) eraser	C) pen	D) ruler
Q 91. If LPHPK is coded as 5	9194 and KILHI is coded as 42	512, then find the code of JMPC	DN?
A) 36789	B) 46798	C) 36987	D) 47893
Q 92. If 'DIMPLE' is coded as	FGONNC', then how can 'FRIE	END' be coded as	Career
A) HPKCPB	B) DPJCJG	C) HTKGPF	D) DPGCKB
Q 93. Looking at a photograp photograph was Rajiv looking a	h Rajiv said "I have no brother o at?		
A) His son's	B) His uncle's	C) His nephew's	D) His own
Q 94. Choose the option which	ch best supports the suggestion	given below.	
	hich currently are not regulated	by any official body should now	/ PI PI DIPL
NABARD."	Launcher		Launch
A) This would lead to better a	iccess to loans. utions have been set up in the c	ountry.	The Laure
	ed, they are exploiting poor peo	•	rates
	investment in the infrastructure		rates.
	d to look for stable jobs even if i		ev do not want that anymore
	·		sy do not want that anymore.
	weakens the argument given a		Yanyaer
A) The recent recession has (changed the attitude of people of	drastically; they want to be well:	settled in a job.
C) Covernment jobs by virtue	ate world has caught hold of the	people.	TE Laure
Of Government Jobs, by virtue	of their job security, continue to catisfaction to a middle class per	be most sought after.	
	one term missing. Choose the co	,	
,	g. onlood the ot	and man of norm the given	chica and thin complete and

5, 3, 3, 5, 15, 69, ?

A) 339

B) 414

C) 407

D) 483

In the question select the missing number from the given responses.

Q 97. 133, 159, 182, ?, 219, 233

A) 196

B) 1991

C) 202

D) 206

In the question a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

Q 98. 6, 7, 10, 19, 46, ?

A) 87

B) 123

C) 127

D) 151

Q 99. 2, 6, 24, 120, 720, ?

A) 2520

B) 3360

C) 4260

D) 5040

In the question select the missing number from the given responses.

- **Q 100.** 6, 24, 60, ?, 210
- **A)** 80

B) 90

C) 110

D) 120



Career

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CUCET Mock 1 - 2022

1	В	2	В	3	Α	4	D	5	С	6	В	7	D	8	D	9	С	10	С	11	С	12	В	13	D	14	В	15	D	16	Α
17	В	18	Α	19	Α	20	В	21	D	22	D	23	Α	24	D	25	С	26	D	27	D	28	С	29	Α	30	Α	31	D	32	D
33	С	34	Α	35	С	36	С	37	Α	38	С	39	D	40	В	41	Α	42	В	43	Α	44	В	45	Α	46	С	47	С	48	В
49	D	50	С	51	D	52	С	53	D	54	C	55	Α	56	В	57	С	58	Α	59	С	60	D	61	С	62	Α	63	С	64	D
65	В	66	В	67	С	68	В	69	Α	70	D	71	В	72	С	73	Α	74	С	75	С	76	Α	77	D	78	В	79	В	80	D
81	С	82	Α	83	В	84	Α	85	С	86	D	87	С	88	Α	89	Α	90	D	91	С	92	Α	93	Α	94	С	95	С	96	С
97	С	98	С	99	D	100	D																	10.7	ř.,		-				

Let the length of the train be 'L' m and speed of the train be x m/s.

$$\therefore \text{ Speed of the train } = \frac{L + 100}{10} = \frac{L + 500}{20}$$

From the above equation, we get L = 300 m and x = 40 m/s

 \therefore Time required to cross a stationary man = $\frac{300}{40}$ = 7.5 sec.

Q 1. Ans: **B Solution**:

Time taken by Mahabodhi Express and Udyog Nagri Express for entire journey in 10hr and 8hr respectively.

Let the speed of Mahabodhi Express and Udyog Nagri Express be x km/hr and (x + 10) km/hr respectively.

$$\therefore 10 \times x = 8(x + 10)$$

(Distance travelled by both the train is same)

 \Rightarrow x = 40 km/hr.

Hence, speed of Udyog Nagari Express = x + 10

Q 2. Ans: **B** Solution: = 40 + 10 = 50 km/hr.

Let speed of boat, S_1 = 11 km/h and speed of stream be S_2 . In upstream,

$$11 - S_2 = \frac{12}{t_1} \Rightarrow t_1 = \frac{12}{11 - S_2}$$

and in downstream,

$$11 + S_2 = \frac{12}{t_2} \Rightarrow t_2 = \frac{12}{11 + S_2}$$

Also,
$$t_1 + t_2 = 2 + \frac{45}{60}$$

$$\Rightarrow 12\left(\frac{22}{121-8^2_2}\right) = 2.75$$

$$\Rightarrow 121 - S_2^2 = \frac{22 \times 12}{2.75}$$

$$\Rightarrow 121 - S_2^2 = 96$$

$$\Rightarrow$$
 S₂² = 25

Q 3. Ans: **A** Solution:
$$\Rightarrow$$
 S₂ = 5 km/h



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While working alone, Nirmal requires 20 days and Bob requires 50 days to complete the same work.

Suppose, Bob worked with Nirmal for x days. Then,

$$\frac{16}{20} + \frac{x}{50} = 1 \Rightarrow x = 10$$

Q 4. Ans: D Solution: Hence, Bob worked with Nirmal for 10 days.

Let the capacity of the tank be x × LCM (36, 45, 60)

i.e 180x units.

The number of units filled by A in an hour

$$=\frac{180x}{36}=5x$$

The number of units filled by B in an hour

$$=\frac{180x}{45}=4x$$

The number of units emptied by C in an

$$hour = \frac{180x}{60} = 3x$$

Hence, the required time = $\frac{180x}{5x + 4x - 3x}$

Q 5. Ans: C Solution: = 30 hours.

Let the weights (in kg) of the father, the son and the mother be x, y and z respectively.

According to the question,

$$x: y = 3: 2$$
 and $y: z = 5: 6$

Therefore,
$$x : y : z = 15 : 10 : 12$$

Weight of the father =
$$2 \times 37.5 = 75 \text{ kg}$$

Weight of the mother =
$$\frac{12}{15} \times 75 = 60$$
 kg.

Q 6. Ans: B Solution:

Let the investment of Ashok, Munna and Lucky be Rs. A,

∴ Required difference =
$$\frac{4x-3x}{6x+3x+4x}$$
 × 2392 = Rs. 184.

Q 7. Ans: **D** Solution:

Equivalent discount to a series of successive discounts of 20%, 30% and 50%.

$$= 100 - (0.8 \times 0.7 \times 0.5 \times 100) = 72\%.$$

Q 8. Ans: **D** Solution:
$$\therefore$$
 SP = 200(1 - 0.72) = 56.

Let x litres per hour be the rate at which water comes out from the leak, then

$$x \times 8 = (x - 6) \times 12$$

Q 9. Ans: C Solution! Hence, capacity of the tank = 18 × 8 = 144 litres.

Q 10. Ans: C Solution: Present age of the husband = 45 + 5 = 50 years.

Let the volume of the mixture and the amount of mixture replaced by water be '4x' and 'a' respectively.

$$\therefore \frac{1}{2} = \frac{3}{4} \left(1 - \frac{a}{4x} \right) \Rightarrow a = \frac{1}{3} (4x.)$$

Q 11. Ans: C Solution:

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Cost of a Geometry Box = Rs. 48. Therefore, 2 Geometry Box cost Rs. 96

⇒ Cost of a book = Rs. 6

⇒ Cost of 10 books = Rs.60 = Cost of 5 pencils.

⇒ Cost of 1 pencil = Rs. 12

⇒ Cost of 5 pencils = Rs. 60 = Cost of 3 pens.

⇒ Cost of 1 pen = Rs. 20

Q 12. Ans: **B** Solution: ⇒ Cost of 5 pens = Rs. 100.

P's one day work = $\frac{1}{12}$ and

Q's one day work = $\frac{1}{5}$.

Let in x days P can complete the remaining part of the work.
Then.

$$\frac{6}{12} + \frac{3}{12} - \frac{3}{5} + \frac{x}{12} = 1$$

$$\Rightarrow \frac{9}{12} - \frac{3}{5} + \frac{x}{12} = 1$$

$$\Rightarrow \frac{3}{20} + \frac{x}{12} = 1$$

$$\Rightarrow x = \frac{17}{20} \times 12 = 10.2.$$

Q 13. Ans: **D** Solution:

Let the original price of the machine be Rs. 100.

Price after 20% increase = 100 + 20% of 100 = Rs. 120

Price after $16\frac{2}{3}$ % decrease in the following ear

=
$$120 - 16\frac{2}{3}$$
 % of 120 = Rs. 100

... Net increase in the price of the machine = 0

Q 14. Ans: B Solution:

$$1.\overline{34} = \frac{134 - 1}{99} = \frac{133}{99}$$

and
$$4.1\overline{2} = \frac{412 - 41}{90} = \frac{371}{90}$$

$$\therefore 1.\overline{34} + 4.1\overline{2} = \frac{133}{99} + \frac{371}{90}$$

Q 15. Ans: **D** Solution:
$$=\frac{1330 + 4081}{990} = \frac{5411}{990} = 5\frac{461}{990}$$

As average age did not change,

 \therefore Sum of ages of the two removed students = $20 \times 2 = 40$ years.

Q 16. Ans: A Solution: Hence, age of the second student = 40 - 16 = 24 years.

Three years before, sum of the ages of all five members in the family = $17 \times 5 = 85$ years
At present, their sum of ages = $85 + 3 \times 5 = 100$ years.

At present, their sum of ages = $85 + 3 \times 5 = 100$ years. But, since a baby was born, the present sum of the age of six-member family = $17 \times 6 = 102$ years.

∴ Present age of the baby = 102 – 100 = 2 years.

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Q 17. Ans: B Solution:

Number of ways of selecting a committee of 3 members out of 10 members = ${}^{10}C_3 = 120$.

Number of ways of selecting a committee of 3 members in which at least 2 members are Engineers

= Number of ways of selecting 2 Engineers and 1 Manager + Number of ways of selecting 3 Engineers

$$= {}^{6}C_{2} \times {}^{4} C_{1} + {}^{6} C_{3}$$
$$= 15 \times 4 + 20 = 80$$

Q 18. Ans: **A** Solution: Required probability $=\frac{80}{120} = \frac{2}{3}$.

Let us suppose that the usual speed of his car be 'x' km/hr and usual time taken by his car be 't' hrs.

Since the distance travelled in both the cases is same.

hence,
$$xt = (x + 20)\left(t - \frac{50}{60}\right) = (x - 15)\left(t + \frac{45}{60}\right)$$

$$speed = \frac{Distance}{Time}$$

Q 19. Ans: A Solution: $\Rightarrow x = 190 \text{ km/hr}$

Q 20. Ans: **B** Solution: The sum of 25 observations = $25 \times 36 = 900$

The sum of first 13 observations = $13 \times 32 = 416$

The sum of last 13 observations = 13 '39 = 507

Hence, 13th observation = 416 + 507 - 900

= 923 - 900 = 23.

The1st day of a month was Wednesday and the 1st day of the next to next month of the same year was Sunday i.e. there were 4 odd days i.e. there were 60 days in between these two dates.

This could be possible only when there were 31 and 29 days in these two months.

As the month whose 1st day was Wednesday wasn't January, i.e. it must have been February and next month was March.

Q 21. Ans: D Solution: Therefore, 1st day of 7st month i.e. July was Sunday.

We know that:

$$\theta = 30h - \frac{11}{2}m$$

Where θ is the angle between the minute and hour hands, 'h' is the position of hour hand and 'm' is the position of minute hand

$$\Rightarrow 75^{\circ} = 30 \times 3 - \frac{11}{2} \text{m}$$

$$\Rightarrow$$
 m = $\frac{30}{11}$ and 30.

Q 22. Ans: **D** Solution: Hence, the required time after 3 : 20 p.m. will be 3 : 30 p.m.

Hence, Bob worked with Nirmal for 10 days.

Simple interest for 1 year = 1380 – 1290 = Rs. 90 Simple interest for 4 years = 90 × 4 = Rs. 360

Q 23. Ans: A Solution: Principal = 1290 - 360 = Rs. 930.













$$\frac{5}{6} \times \frac{2 \times \frac{5}{4}}{\frac{3}{4} \times \frac{16}{9} + \frac{3}{4} - \frac{1}{2}} = \frac{5}{6} \times \frac{\frac{5}{2}}{\frac{4}{3} + \frac{3}{4} - \frac{1}{2}}$$

$$=\frac{5}{6}\times\frac{\frac{5}{2}}{\frac{25}{12}-\frac{1}{2}}=\frac{5}{6}\times\frac{\frac{5}{2}}{\frac{19}{12}}$$

$$= \frac{5}{6} \times \frac{60}{38} = \frac{25}{19} \, .$$

Q 24. Ans: D Solution:

Let the radius of the smallest circle be r.

The circumference of smallest circle = $2\pi r = c\pi$

$$\Rightarrow r = \frac{c}{2}$$

.. Average of the areas of the seven circles

$$=\frac{\pi r^2 \left(1^2+2^2+...+7^2\right)}{7}=20\pi r^2=20\pi \left(\frac{c}{2}\right)^2=5\pi c^2.$$

Q 25. Ans: C Solution:

Q 26. Ans: **D** Solution:India previously ranked at 140 dropped to 144.

Q 27. Ans: **D Solution:**The Comoros is a volcanic archipelago off Africa's east coast, in the warm Indian Ocean waters of the Mozambique Channel.

Q 28. Ans: **C** Solution: The State Bank of India (SBI) relaunched its Aadhaar-based instant digital savings account facility for customers who want to open an online account using the Yono platform.

Q 29. Ans: **A Solution:**Cabinet Committee on Economic Affairs approved a new policy for allocation of future coal linkages in a transparent manner for power sector. This policy was christened as Scheme for Harnessing and Allocating Koyala (Coal) Transparently in India (SHAKTI).

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Q 30. Ans: A Solution: The world's largest e-waste recycling facility is in Dubai.

Q 31. Ans: **D Solution:**Mathematician Karen Uhlenbeck has become the first woman to win the Abel prize, sometimes called the Nobel prize of mathematics.

Q 32. Ans: **D** Solution:RuPay is an Indian domestic card scheme conceived and launched by the National Payments Corporation of India on 26 March 2012.

Q 33. Ans: C Solution: Deepika Padukone was the latest Indian awarded with the Crystal Award at the World Economic Forum 2020.

Q 34. Ans: **A Solution:**Heena Sidhu is an Indian sport shooter. Sidhu became the first Indian pistol shooter to reach number one in world

Q 35. Ans: **C Solution:**Chhattisgarh government recently signed a contract execution (MoU) for the country's first ethanol plant to be set up in the state under the public-private partnership (PPP) model.

Q 36. Ans: **C** Solution: The Andhra Pradesh Chief Minister, Y. S. Jagan Mohan Reddy has been conferred the Skoch Chief Minister of the Year Award.

Q 37. Ans: **A Solution:**The National Informatics Centre has launched an instant messaging platform called Sandes on the lines of WhatsApp.

Q 38. Ans: **C** Solution: The Reserve Bank of India (RBI) has constructed a composite Digital Payments Index (DPI) to capture the extent of digitisation of payments across the country.

Q 39. Ans: **D Solution:**The RBI appointed an eight-member expert committee headed by former SEBI chairman U.K. Sinha to comprehensively review and propose long-term solutions for revival of the micro, small and medium enterprises (MSME) sector.

Q 40. Ans: **B** Solution: Juventus star forward Cristiano Ronaldo reached an impressive milestone outside the football field. Ronaldo becomes the first person to hit the 250 million mark on Instagram.

Percentage of females in Bangaore = 100 - 52 - 13 = 35

Adult males =
$$71200000 \times \frac{52}{100}$$

Adult females =
$$\frac{71200000 \times 35}{100}$$
 = 24920000

Percentage of females in Delhi = 40

Adult males =
$$\frac{93500000 \times 49}{100}$$
 = 45815000

Adult females =
$$\frac{93500000 \times 40}{100}$$
 = 37400000

Hence, required percentage = $\frac{20519000}{62320000} \times 100 = 33$.

Q 41. Ans: **A Solution:** 62320000

Required percentage = $\frac{16}{41} \times 100 = 39$. Q 42. Ans: **B** Solution:

Q 42. Alis. B Solution. Females :

Gujarat =
$$\frac{68300000 \times 43}{100}$$
 = 29369000

Delhi = 37400000

Q 43. Ans: A Solution: Difference = 37400000 - 29369000 = 8031000.

Adult population:

Chandigarh =
$$\frac{42500000 \times 86}{100}$$
 = 365500000

Mumbai =
$$\frac{81200000 \times 84}{100}$$
 = 68208000

Total population = 36550000 + 68208000

Q 44. Ans: **B** Solution: = 104758000.

Q 45. Ans: **A Solution:**Required ratio = 93500000 : 54500000 = 935 : 545 = 187 : 109

Q 46. Ans: C Solution: Nimble means able to move quickly and lightly. Thus, agile is correct.

Q 47. Ans: C Solution: Morose means bad-tempered, and not saying much to other people

Q 48. Ans: **B** Solution:Bamboozle means to cheat, hoodwink or deceive someone.

Q 49. Ans: **D** Solution: Ensconce means to establish or settle (someone) in a comfortable, safe place.

Q 50. Ans: **C** Solution:Ingratiate means to make yourself liked by doing or saying things that will please people, especially people who might be useful to you

Q 51. Ans: **D** Solution: Augury refers to a sign of what will happen in the future; an omen.

Q 52. Ans: **C** Solution: The passage supports option (C). It's mentioned that the concept of exploring the female form and its extension "cartographically" as Mother India was made popular in the 1920s. However, when Husain used the same concept in his work, he had to face aggression and criticism.

Q 53. Ans: **D Solution:**Option (D) is implied by the last sentence of the passage. No other option is implied or hinted at, in the given passage.

Q 54. Ans: **C** Solution: It follows from the passage that the historians Gilmertin and Metcalf offer "critical, nuanced reading" of Justice Kaul's judgment and its implications for "India's free construction of its own culture and national identity by its artist." It also follows that they believe that Husain "has searched for a underlying civilizational spirit, refusing to drawMuslim." Only option (C) is in line with these opinions.

Q 55. Ans: **A Solution:**Option (A) runs contrary to what is mentioned in the passage. So, it is least likely to be inferred from the given paragraph. The rest of the options can be derived from the passage.

Q 56. Ans: B Solution: The correct answer is (B) because an entity X can either 'integrate' with or 'integrate' into an entity Y. No other

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preposition can fit in the given context.

Q 57. Ans: **C** Solution: The sentence suggests that the blank should be filled by a synonym of hunch. Options (A) and (D) do not logically fit into the sentence. Option (B) is negated because thought refers to an idea or opinion, which is also incorrect in the given context.

Q 58. Ans: **A Solution:** The phrase by the sound of something refers to the idea or impression conveyed by someone/something from what somebody says or what you read.

Q 59. Ans: **C** Solution: An outlet refers to something that people use to express their emotions or talents. Output refers to something that is produced by someone/something; outset means the start or beginning of something and outbreak refers to a sudden start or increase of fighting or disease.

Q 60. Ans: **D** Solution:Option (B) is negated because the phrase is at the top and not at top. Moreover, at the top refers to the highest level, which would be incorrect in the given context. At most means not more than and hence, would be repetitive. At all means in any way, which would seem the most apt in the given context. She does not look more than 20 in any way.

Q 61. Ans: **C Solution:**Prudent is something that shows good judgment. Penurious means very poor and plausible means probably true or realistic. Feasible means possible to do.

Q 62. Ans: **A Solution:**Bring home the bacon means to gain success.

Q 63. Ans: **C** Solution: To spell out everything means to explain in a detailed way.

Q 64. Ans: **D** Solution: Nose around means to search for something (such as private or hidden information) in usually a quiet or secret way.

Q 65. Ans: B Solution: Someone who is thoroughly, intrinsically inclined to behave badly and cause trouble is termed a rotten egg.

Q 66. Ans: B Solution: The sentence tries to establish a sequence of events. Thus, option B is correct.

Q 67. Ans: C Solution: Keep a watch/eye should be followed by the preposition on and not in. Keep an eye of a watchdog is incorrect.

Q 68. Ans: **B** Solution: The other options have tense inconsistency.

Q 69. Ans: A Solution: The other options either have a tense inconsistency or a subject-verb disagreement.

Q 70. Ans: **D Solution:**Setting-up is an incorrect usage. Here, the sentence will take set up, which means to assemble the parts of and erect in position. Underwent in is grammatically incorrect.

Q 71. Ans: **B** Solution: Abhorrent means causing or deserving strong dislike or hatred.

Q 72. Ans: **C** Solution: Abstruse means difficult to understand, obscure.

Q 73. Ans: A Solution: Profane means to treat (something sacred) with abuse, irreverence, or contempt: desecrate.

Q 74. Ans: **C** Solution: Pertinacious means holding firmly to an opinion or a course of action.

Q 75. Ans: C Solution:Impecuniousness means having very little or no money usually habitually : penniless.

Q 76. Ans: **A Solution:** Just like a 'sword' is used for 'fighting', a 'pen' is used for 'writing'.

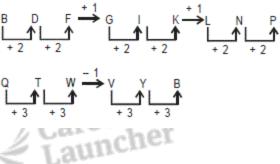
Q 77. Ans: **D** Solution: The relationship given between the elements of the given pair is that of the body part used to play the instrument and the instrument i.e. mouth and flute. A similar relationship is presented by option (D) – fingers and guitar. Options (A) is incorrect as 'cello' is played with hands and not legs. Options (B) and (C) are incorrect because the positioning of the elements (i.e. instrument: body part used to play it) is opposite to the pair in question (i.e. body part used to play the instrument).

Q 78. Ans: **B** Solution: Just like a 'weapon' is used as an equipment during war; similarly a 'sickle' is used as an equipment for harvesting. Option (D) is incorrect because electricity is not an equipment. Option (B) is the correct answer.

Q 79. Ans: **B** Solution: Just like 'fuel' is necessary for a car to fulfill its function similarly a 'cartridge' is necessary for a 'gun' to fulfill its function.

Q 80. Ans: **D Solution:** Just like an 'Eskimo' lives in an 'igloo', similarly a 'sheep' lives in a 'pen'. A 'hen' lives in a 'coop', a 'dog' lives in a kennel and a 'snake' lives in a 'burrow'.

Q 81. Ans: **C** Solution: Position number of first letter of each term increases by 3 and 1 in alternate terms. Position number of middle letter of each term increases by 1, 2, 3, 4, 5,...and so on. Position number of third letter of each term increases by 3. Hence, the missing term is **ITO**.



Q 82. Ans: A Solution:



$$V \xrightarrow{-4} R \xrightarrow{-4} N \xrightarrow{-4} J \xrightarrow{-4} F$$

$$T \xrightarrow{-4} P \xrightarrow{-4} L \xrightarrow{-4} H \xrightarrow{-4} D$$

$$S \xrightarrow{-4} O \xrightarrow{-4} K \xrightarrow{-4} G \xrightarrow{-4} C$$

Q 83. Ans: **B Solution:** S-

Q 84. Ans: A Solution:Except Chord, rest all are polygons.

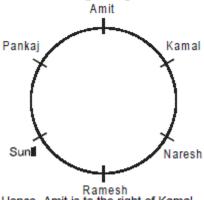
Q 85. Ans: C Solution: Option (C) is the correct answer since a musician can play any instrument whereas pianist, guitarist and drummer are specialist in their respective instruments.

Q 86. Ans: D Solution:Options (A), (B) and (C) are obtained from animals. Option (D), raisins, are obtained from trees and Career Launch hence, is the answer.

Q 87. Ans: C Solution:Except Race, in all other games, ball is used to play.

Q 88. Ans: A Solution: Except Root, all the parts of a tree can be seen.

The final seating arrangement will be:



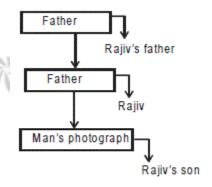
Q 89. Ans: A Solution: Hence, Amit is to the right of Kamal.

Q 90. Ans: **D** Solution: The required answer is ruler.

Q 91. Ans: C Solution:In coding language, each letter is written as a number 7 less than the position number of that letter. Hence, JMPON is coded as 36987.

Q 92. Ans: A Solution:In coding language, alternate letters are replaced by second next and second previous letter starting from left. Hence, the code for FRIEND is HPKCPB.

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Since Rajiv does not have any brother or sister, it means Rajiv's father's son is Rajiv himself. Therefore, the man in the photograph is Rajiv's son. Hence, the answer is option (A).

Q 93. Ans: A Solution:

Q 94. Ans: C Solution:Only option (C) provides a plausible reason for the advice that microfinance institutions should come under the ambit of NABARD. Accessibility to loan is improved by setting up more branches of microfinance institutions and not by regulating them. Option (B) doesn't support the suggestion in any way. Infrastructure sector as mentioned in option (D) is out of context.

Q 95. Ans: C Solution: The argument states that in the past, people preferred stable jobs even if it fetched them less income. But things have changed now; that is, for people, income has become more important a criterion as compared to the stability of job. This is weakened by the statement given in option (C). The fact that government jobs are in demand because of their promise of job security weakens the argument as it means that people still value stability over income. Option (A) is just the opposite of the argument but doesn't weaken the argument. Option (B) is unrelated and doesn't affect the argument. The

sense of satisfaction talked about in option (D) doesn't tell us whether people actually seek it by foregoing extra income. Career Launch Hence, option (C) is the correct answer. Launcher

Q 96. Ans: **C** Solution: $5 \times 1 - 2 = 3$

 $3 \times 2 - 3 = 3$

 $3 \times 3 - 4 = 5$

 $5 \times 4 - 5 = 15$

 $15 \times 5 - 6 = 69$

 $69 \times 6 - 7 = 407...$

The pattern followed in the series is:

133 + 26 = 159

159 + 23 = 182

182 + 20 = 202

202 + 17 = 219

219 + 14 = 233

Q 97. Ans: C Solution: ... The missing term is 202.

 $6+3^0=7$

 $7 + 3^1 = 10$

 $10 + 3^2 = 19$

 $19 + 3^3 = 46$

 $46 + 3^4 = 127$.

Q 98. Ans: C Solution:

 $2 \times 3 = 6$

 $6 \times 4 = 24$

 $24 \times 5 = 120$

120 × 6 = 720 Q 99. Ans: **D** Solution: $720 \times 7 = 5040$. Q 100. Ans: **D** Solution: $2^3 - 2 = 6$ $3^3 - 3 = 2^4$

 $3^3 - 3 = 24$

 $4^3 - 4 = 60$

 $5^3 - 5 = 120$

 $6^3 - 6 = 210$

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