# PREVIOUS PAPER

# Assistant Loco Pilot AHMEDABAD Based on Memory

1.	If the point A (7, 1	k) is the vertex of a	n isosceles triangle	ABC with base BC,
	where $B = (2, 4)$ and	and $C = (6, 10)$ , then	what is 'k'?	
	1) 6	2)3	3) 4	4) 5
2.	If the distance bet	ween the points (na	, nb) and (a, b) is	4 times the distance
	between the points	(5a, 5b) and (a, b), t	then 'n' is equal to-	~
	a) 11 or -13	2) 11	3) 13	4) 17 or –15
3.	ABC is a tringle w	hose centroid is G. I	f A is (-3, 1) B is (2	, b), C is (a, -4) and
	G is $(1, -1)$ then fi	nd 'a' and 'b'.	100	9.
	1) $a = 4$ , $b = 0$		2) a = 0, b = 4 4) a = 5, b = 2	
	3) $a = 3$ , $b = 2$	_		
4.	An angle is equal t	o $\frac{3\pi}{5}$ radians. What	is its measure in deg	grees?
	1) 145°	2) 72°	3) 108°	4) 120°
5.	The equation of a s	straight line is 2x-3y	+2 = 0. What is its si	lope?
	1) $\frac{2}{3}$	2) -2	3) 2	$4) - \frac{2}{3}$
<b>6.</b>	Find the range of v	alues of x, which sa	tisfy the inequality-	

2)  $(x : x \in R, -4 \le x < -2)$ 

4)  $(x : x \in R, 5 < x \le 8)$ 

 $-\frac{1}{5} \le \frac{3x}{10} + 1 < \frac{2}{5}, x \in \mathbb{R}$ 

1)  $(x : x \in R, 0.3 \le x < 9)$ 

3)  $(x : x \in R, 4 \ge x > -2)$ 

7. Read the law given below and identify the same:

The mass on any substance liberated from an electrolyte is directly proportional to the quantity of charge passing through the solution.

- 1) Avogadro's law
- 2) Faraday's first law of electrolysis
- 3) Faraday's second law of electrolysis
- 4) Kirchhaoff's law of electricity
- The value of Avogadro's constant is-8.
  - 1)  $6.022 \times 10^{23}$  per mole
- 2)  $58.04 \times 10^{-2}$  per mole
- 3)  $69.51 \times 10^{-18}$  per mole
- 4)  $6.022 \times 10^{14}$  per mole
- 9. In an experiment, 295 mg of copper is deposited when a current of 500 mA passes for 30 minutes. Find the electrochemical equivalent of copper-
  - 1)  $32.77 \text{ a } 10^{-8} \text{ kg/ coulomb}$
- 2) 58.4 kg/ coulomb
- 3)  $109.5 \times 10^8$  kg/ coulomb
- 4.  $\frac{1}{32.77 \times 10^{-8}}$  kg/ coulomb
- 10. Which one of the following is the correct unit of angular velocity?
  - 1) m/ minute
- 2) cm/ $sec^2$
- 3) cm/sec
- 4) radians/sec
- 11. The force by which a body is attracted towards the centre of the earth is called-
  - 1) Gravitational force

2) Mass

3) Momentum

- 4) Impulsive force
- 12. The maximum displacement of a vibrating body from its mean position is called-
  - 1) Gyration
- 2) Wavelength 3) Amplitude
- 4) Impulse

- 13. The kinetic energy of a body depends upon-
  - 1) Mass, gravity and height
- 2) Its mass alone

3) Its velocity alone

- 4) Both mass and velocity
- **14.** A ball weighing 25 grams is thrown vertically into the air. It takes 15 seconds to reach its highest point. How much time would it take to reach the ground from its highest point?
  - 1) More data are required for calculation
    - 2) Less than 15 seconds
    - 3) More than 15 seconds
    - 4) 15 seconds

15.	The term Squirrer Cage is associated v	VILII	
	1) Pressure gauges	2) Internal combustion en	gines
	3) Potentiometers	4) Electric motors	X
16.	The phenomenon of increase in the tem	perature of the earth's atmo	sphare due to
	absorption of the infra-red radiations re	flected from the earth's sur	face is called-
	1) Tsunami	2) Solar heating	
	3) Green-house effect	4) Seismic effect	
17.	Why is it recommended that people stronged rooms?	hould not use charcoal or	gas stoves ir
	1) The electrical wiring in the room ma	y catch fire	
	2) The stoves will get extinguished		
	3) It can cause carbon monoxide poisor	ning	
	4) The stoves may burst		
18.	The most effective way to improve saf	ety in a vast organisation li	ke the Indiar
<	Railways is to		V6
	1) Ignore small acts of negligence by the	ne staff	7.5
	2) Carry out frequant checks	10.0	
	3) Educate the staff at all levels	, Or	
	4) Punish defaulting staff	a	
19.	The density of water is maximum at		
	1) 100°C 2) 0°C	3) -273°C 4) 4°C	C
20.	Which one of the following quantities of	loes not have a unit?	
	1) Velocity 2) Density	3) Specific Gravity 4) Ma	ass
21.	A Swimmer finds it easier to swim in s	sea water than in plain wate	r. Why?
	1) Sea water has less contamination		
<	2) Sea waves help a swimmer to swim		
	3) Sea water has higher density than pla	ain water	
	4) Sea has a much higher volume of wa	ater	

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#### www.eenadupratibha.net 22. Humidity refers to-1) Both temperature and moisture contents of the air ia. net 2) Temperature of the air 3) Moisture content of the air 4) Presure of the air 23. Boyle's law states that-1) Volume is directly proportional to temperature 2) Pressure is inversely proportional to temperature 3) Pressure is directly proportional to temperature 4) Presure is inversely proportional to valume 24. Purity of milk is confirmed by-2) Lactometer 3) Altimeter 1) Barometer 4) Hygroscope 25. A stick is dipped in a vessel containing water. It appears bent due to the property of-1) Reflection 2) Newton's Law of Motion 3) Refraction 4) Buoyancy **26.** The temperature on the surface of the sun is about-1) $8 \times 10^{15}$ °C 3) 6000°C 4) 1000°C 2) 500°C 27. The planet farthest from the Sun is-3) Jupiter 1) Pluto 2) Mercury 4) Neptune **28.** Which one of the following is measured on the 'RICHTER SCALE'? 1) The speed of a rocket 5 seconds after take off 2) The intensity of thunderstorm 3) The intensity of an earthquake 4) The speed at which a player serves the ball in Lawn Tennis 29. As a train approaches us, the frequency or shrillness of its whistle increases. This

2) Doppler Effect

4) Archimedes Principle

phenomenon is explained by-

1) Big Bang Theory

3) Charles' Law

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30.	The load on a sprin	_		
	1) Stress	2) Flexbility	3) Stiffness	4) Strain
31.	The term accelerati	on means-		×
	1) Maximum speed	of a vehicle	2) Rate of change	of time
	3) Rate of change of	of velocity	4) Rate of change	of distance
32.	A body of mass 10 would the body trav		rest at the rate of 3 m	n/sec <sup>2</sup> . What distance
	1) 250 metres	2) 100 metres	3) 150 metres	4) 200 metres
33.	•		%. If 10,000 joules e by the engine wou	s of heat energy are ald be-
	1) 40,000 Joules	2) 10,000 Joules	3) 25,000 Joules	4) 4,000 Joules
34.	A gas is allowed to expand at constant temperature from an initial volume of 10 ml to a final volume of 300 ml. At the end of the expansion, the pressure of the gas was found to be 1 atmosphere. What was the initial pressure of the gas?			
	1	_	_	1
	1) 9 atmosphere	2) 1 atmosphere	3) 3 atmosphere	4) $\frac{1}{3}$ atmosphere
35.	There are three nor	n-collinear points. I	How many circles ca	an be drawn passing
	through them?		10	9·°
	1) Infinite	2) One	3) Two	4) Three
36.	What do you under	stand by the term 'A	Absolute Pressure'?	
	, <u> </u>	eric pressure at mea	· ()~	
	2) It is the atmosph	eric pressure expres	sed in kg/ cm <sup>2</sup>	
	_	equal to the algebra	nic sum of atmosphe	ric and gauge pres
	sures	300	C	,
D'			ge of a pressure meas	
Dire	ections (Qs. 37 to 39	questions.	wng number sequei	nce to answer these
	5147398572		243496	
37.	How many odd nur odd number?	mbers in the above s	equence are immedi	ately followed by an
	1) More than 4	2) 2	3) 3	4) 4

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38.	How many even	numbers are there	in the sequence whi	ich are immediately	
	preceded by an ode	d number but immed	liately followed by an	n even number?	
	1) 5	2) 2	3) 3	4) 4	
39.	How many odd r	numbers are there i	n the sequence whi	ch are immediately	
	preceded and also	immediately followe	ed by an even numbe	r-	
	1) 5	2) 2	3) 3	4) 4	
40.	Study the followin	g number sequence-	10/7		
	5 9 8 1 3 2 7 4 3 8		* 7.5		
	If the first and the second digits in the sequence are interchanged, also the third and fourth digits, the fifth and sixth digits, and so on, then which digit would be				
	the seventh counting	ig to your left?	2) 4	4) 7	
	1) 8	2)1	3) 4	4) 7	
41.				3 are arranged in an	
	ascending order, minimum number being kept frist, then which number would come at the ninth place from the first?				
	1) 30	2) 21	3) 24	4) 27	
42.	Find the value of-	2) 21	3) 21	1) 21	
72.		$8.55 \times 3.55 + 3.55 \times$	3 55	3 .	
			3) 25	1) 26	
42	1) 27.5	2) 20	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4) 36	
43.	A husband and wife have six married sons and each of them has four children.  The total number of members in the family is-				
	1) 40	2) 30	3) 36	4) 38	
D:	,	~~\O ^		,	
	<b>Directions (Qs. 44 to 46):</b> In each of the letter series given in these questions, some of the letters are missing. The missing letters are given in that order as one of the				
		oose the correct alter	_	order as one or the	
		oose the correct after	nauve.		
44.	ba-b-aab-a-b				
	1) babb	2) abab	3) abba	4) baba	
45.	mnonopqopqrs	-			
	1) qrstu	2) mnopq	3) oqrst	4) pqrst	
46.	c-bba-cab-ac-al	o–ac			
	1) bcacb	2) abcbc	3) acbcb	4) babcc	
				1	

# **47.** $\frac{1}{4} \left( \frac{1}{216} \right)^{-\frac{2}{3}} \div \left( \frac{1}{27} \right)^{-\frac{4}{3}} = ?$

- 1) $\frac{1}{9}$
- $2)\frac{1}{6}$
- $3)\frac{5}{36}$
- 4)  $\frac{1}{12}$

**Directions (Qs. 48 & 49):** Study the information given below to answer these questions:

On a playground, Dinesh, Kunal, Nitin, Atul and Prashant are standing as described below facing the North.

- i. Kunal is 40 metres to the right of Atul
- ii. Dinesh is 60 metres to the South of Kunal
- iii. Nitin is 25 metres to the West of Atul
- iv. Prashant is 100 metres to the North of Dinesh
- **48.** Who is to the North-east of the person who is to the left of Kunal?
  - 1) Prashant
- 2) Dinesh
- 3) Nitin
- 4) Atul
- **49.** If a boy walks from Nitin, meets Atul, followed by Kunal, Dinesh and Prashant, then how many metres has he walked if he travelled the straight distance all through?
  - 1) 245 metres
- 2) 155 metres
- 3) 185 metres
- 4) 225 metres
- **50.** Roshan is taller than Rahul who is shorter than Sushil. Mirza is taller than Harry but shorter than Rahul. Sushil is shorter than Roshan. Who is the tallest?
  - 1) Harry
- 2) Roshan
- 3) Sushil
- 4) Rahul
- **51.** Roshan is taller than Rahul who is shorter than Sushil. Mirza is taller than Harry but shorter than Rahul. Sushil is shorter than Roshan. Who is the shortest?
  - 1) Roshan
- 2) Harry
- 3) Mirza
- 4) Rahul
- **52.** Which one of the following causes of environmental pollution cannot be attributed to human beings?
  - 1) Uncontrolled growth of human population
  - 2) Rapid industrialisation
  - 3) Rapid urbanisation
  - 4) Volcanic eruptions

53.	Which one of the following gases is manly responsible for the GREENHOUS EFFECT?		
	1) Sulphur dioxide	2) Carbon mono-oxide	
	3) Hydrogen sulphide	4) Carbon dioxide	
54.	Which one of the following is a major of	constituent of petrol?	
	1) Pentane $(C_5H_{12})$	2) Octane (C <sub>8</sub> H <sub>18</sub> )	
	3) Methane (CH <sub>4</sub> )	4) Hexane $(C_6H_{14})$	
55.	Which one of the following is a widely		
	1) Graphite 2) Sodium	3) Lithium 4) Zinc	
<b>56.</b>	The world TSUNAMI is derived from v	which of the following languages?	
	1) Sinhalese 2) Korean	3) Chinese 4) Japanese	
57.	7. A major nuclear power plant, located in one of the countries affected TSUNAMI, escaped damage. Where is it located?		
	1) Bali in Indonesia	2) Galle in Sri Lanka	
	3) Phuket in Thailand	4) Kalpakkam in India	
58.	A major cricket ground was severely Where is it locted?	damanged by the rescent TSUNAMI.	
	1) Candy in Sri Lanka	2) Chittagong in Bangladesh	
	3) Galle in Sri Lanka	4) Nairobi in Kenya	
<b>59.</b>	The sound waves in the audible range h	ave frequencies in the range of-	
	1) 20 Hz to 20,000 Hz	2) 0.5 Hz to 5 Hz	
	3) 1 Hz to 10 Hz	4) 20,000 hz to 40,000 Hz	
60.		applicationis such as assessing depth of	
		ination of the position of icebergs, flaw	
	detection in metals, etc?	2) I :-14	
(1	1) Ultrasonic waves 2) X–rays	3) Light waves 4) γ–rays	
61.	The isotopes of an element are characte	rised by which of the following?	
	1) Presence of neutrons of unusual size		
	2) Different number of electrons in the		
	3) Different number of protons in the nu		
	4) Different number of neutrons in the r	nucleus	

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62.	How do you understand by the term 'Binding Energy'?
	1) Energy released when a nucleus is formed from protons and neutrons
	2) The force of attraction between an electron in the first orbit and the nucleus
	3) Electron belonging to the same major energy level
	4) Energy associated with a photon
63.	Which of the following statements in wrong?
	1) Ionic bonds are non-rigid and non-directional
	2) Compounds formed by ionic bonds are non-conductors of electricity
	3) Ionic bonds are formed by transfer of electrons from a metal to a non-metal
	atom
	4) Compounds fromed by ionic bonds are hard and brittle
<b>64.</b>	Arrange the following materials in the order of decreasing conductivity:
	Silicon, Glass, Aluminium, Silver
	1) Glass, Silicon, Aluminium, Silver
<	2) Aluminium, Silver, Glass, Silicon
	3) Silver, Silicon, Aluminium, Glass
	4) Silver, Aluminium, Silicon, Glass
<b>65.</b>	If a barometer carries water instead of mercury, then the height of the column for
	a pressure equivalent to 75 cm of mercury would be-
	1) 1050 cm 2) 1020 cm 3) 1000 cm 4) 5.5 cm
66.	The term EURO-II in the context of modern cars refers to-
	1) Emission from cars 2) Speed of cars
	3) Fuel efficiency 4) Torque available
<b>67.</b>	What is the ultimate benefit of good communication in a vast organisation like
	the Indian Railways?
<	1) Improved productivity and profits
	2) Reduced frustration among the employees

3) Development of good human relations

4) Improved image of the organisation

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68.	What is the term A			
		agricultural commo	dities	
	2) Grading battery	_		
	3) Grading polyeste			- × /
	4) Grading engine l			200
69.			g the quality of Indu	strial goods is-
	1) ISI	2) ISO	3) ITI	4) CEERI
70.	,	,	10/3	ay for 2 hours. In 10
	days, it will consun	•	X > 10 Hour / 10 10 10 10 10 10 10 10 10 10 10 10 10	ay 101 <b>2</b> 110 <b>4</b> 15. 111 10
	1) 20 kWh	2) 2 kWh	3) 0.2 kWh	4) 200 kWh
71.	Ozone is a gas havi	ng atoms of Ox	gen in its molecules.	
	1) Four	2) One	3) Two	4) Three
72.	A Family consumes	s 14.5 Kg Of LPG in	n 29 days. The calor	ific value of LPG is
	55 Kl/gm. the aver	age energy consume	ed per day is-	
	1) 275 kj	2) 27.5 kj	3) 27,500 kj	4) 0.275 kj
<b>73.</b>	The chemical form	ula of natural gas is-		X
	1) $C_3H_8$	2) CH <sub>4</sub>	3) $C_4H_{10}$	4) C <sub>2</sub> H <sub>6</sub>
74.	The percentage of o	carbon in one molect	ule of carbon dioxide	e is approximately-
	1) 2.73%	2) 72.7%	3) 80%	4) 27.3%
<b>75.</b>	The term 'Cracking	' in the context of or	ganic molecules is-	
	1) The process of fi	ractional distillation	in the refineries	
	2) Breaking of a lar	ge alkane molecule	into smaller hydroca	arbon molecules
	3) A nuclear reaction where in the nucleus is broken			
	4) Use of fire crack	ers to produce heat	to initiate certain che	emical reactions
<b>76.</b>	In a nuclear power s	station, which one of	the following is com	monly used as a fuel
	for producing heat?	70	_	•
	1) Coal	2) Helium	3) Heavy Water	4) Uranium-235
77.				e number of fissions
			f 10 MW for 10 hou	
<	1) $6.5 \times 10^{50}$	2) $2.1 \times 10^{12}$	3) $1.125 \times 10^{22}$	4) 1800
<b>78</b> .		,	ŕ	ne calorific value of
, 0.		_	of consumption of the	

2) 1.5

1) 0.1

3) 1

4) 0.5

<b>79.</b>					
	of mass 1 kg kept at a height of 5 metres is-				
	1) 50 Joules	2) 500 Joules	3) 100 Joules	4) 10 Joules	
80.	A boat weighing 20	0 kg floats on water.	The weight of w	rater displaced would be-	
	1) 220 kg	2) 0 kg	3) 180 kg	4) 200 kg	
81.	An iron spherical b	oall having an exten	rnal volume of 1	10 cu cm is dipped in a	
	beaker containing water of specific gravity 1 gm/ cu cm. The weight of the bal				
	would be reduced by-			,	
	1) Colleting more data for making the calculation				
	2) 0.1 gm				
	3) 1 gm				
	4) 10 gm				
82.	Archimedes Princip	le is related to-			
	1) laws of floatation	1	2) Right-angle	ed triangle	
	3) Laws of gravity		4) Relation bety	ween current and voltage	
83.	The commonly used	d washing soda is-		26	
	1) Sodium Bicarbon	nate	2) Sodium Car	bonate	
	3) Sodium Chloride	;	4) Magnesium	Chloride	
84.	The chemical formu	ıla of 'plaster of par	ris' is-	) >	
	1) 2CaSO <sub>4</sub> . $\frac{1}{2}$ H <sub>2</sub> 0	)	2) Ca(OH) <sub>2</sub>		
	2	~~~	V G 0 G		
	3) $(CaSO_4)_2.H_2O$	2177	4) CaOCl <sub>2</sub>		
85.	·			ter tanks. The substance	
	had a atrong amall a	at chlorine. The cub			
	has a strong smell of				
	1) Bleaching powde		stance is- 2) Slaked lime		
	~			lt	
86.	<ul><li>1) Bleaching powder</li><li>3) Backing powder</li></ul>	èr	<ul><li>2) Slaked lime</li><li>4) Common sal</li></ul>	lt d small in size. Which	
86.	<ol> <li>Bleaching powder</li> <li>Backing powder</li> <li>A person bakes a</li> </ol>	cake. It turns out	<ul><li>2) Slaked lime</li><li>4) Common sat</li><li>to be hard and</li></ul>		
86.	<ol> <li>Bleaching powder</li> <li>Backing powder</li> <li>A person bakes a</li> </ol>	cake. It turns out	<ul><li>2) Slaked lime</li><li>4) Common sat</li><li>to be hard and</li></ul>	d small in size. Which	
86.	<ol> <li>Bleaching powder</li> <li>Backing powder</li> <li>A person bakes a ingredient has he for</li> </ol>	cake. It turns out	<ul><li>2) Slaked lime</li><li>4) Common sat</li><li>to be hard and</li></ul>	d small in size. Which used the cake to rise and	

- 87. A White chemical compound becomes hard on mixing proper quantity of water. It is also used in surgery to repair fractured bones. What is it? 1) Plaster of paris 2) Slaked lime 3) Bleaching power 4) lime **88.** Brass has which of the following compositions? 1) 40% copper, 40% zinc and 20% tin 2) 50% zinc and 50% copper 3) 80% zinc, 10% copper and 10% lead 4) 80% copper and 20% zinc **89.** Broneze has which of the following compositions? 1) 50% copper, 10% iron and 40% zinc 2) 90% copper and 10% tin 4) 40% copper, 40% tin and 20% zinc 3) 10% copper and 90% tin **90.** Solder has which of the follwing compositions? 1) 50% lead and 50% tin 2) 70% lead, 20% copper and 10% tin 3) 20% lead, 40% copper and 40% tin 4) 10% lead and 90% tin is net 91. Galvansation is the process of-1) Drawing metals into thin wires 2) Giving a coating of zinc metal on iron 3) Making aluminium metal into thin wire 4) Making thin aluminium foils **92.** German silver has which of the following compositions? 1) 20% copper, 20% chromium and 60% zinc 2) 40% copper, 20% zinc and 40% silver 3) 60% copper, 20% zinc and 20% nickel 4) 80% copper, 10% zinc and 10% silver The symbol of Magnesium is Mg. What does  $Mg^{2+}$  mean? 93. 1) Magnesium atom has acquired two protons
  - 3) Magnesium atom has donated two outermost electrons to form a positive ion

2) two atoms of magnesium have combined

4) The charged Mg. ion attracts oppositely charged negative ions with twice as much intensity

**94.** When Sodium (Na), Copper (Cu) and Zinc (Zn) are placed in the order of decreasing reactivity, then their order would be-

1) Na > ZN > Cu

2) Na > Cu > Zn

3) Cu > Na > Zn

4) Zn > Na > Cu

95. Which of the following metals is more reactive than Hydrogen?

1) Gold

2) Calcium

3) Aluminium

4) Iron

**96.** Which of the following metals can displace Hydrogen from its compounds like water and acids to form hydrogen gas?

1) Tin

2) Copper

3) Mercury

4) Silver

97. The approximate percentage of salt by weight in sea water is-

1) 41%

2) 3.6%

3) 0.1%

4) 10.2%

**98.** The common salt is iodised to prevent occurrence of which of the following diseases in the human body?

1) Diabetes

2) Goitre

3) Beri-beri

4) Night-blindness

 $2\Omega$ 

99. A wire of a certain length has a resistance of  $2.2\Omega$ . If the wire is stretched to twice its original length, then find the new resistence.

 $1) 8.8\Omega$ 

 $2) 1.1\Omega$ 

 $3) 2.2\Omega$ 

 $4) 4.4\Omega$ 

 $3 \Omega$ 

**100.** In the above circuit, the effective

resitance between the

points A and B is-

1) 18 Ω

2)  $4\frac{4}{9}\Omega$ 

 $\begin{array}{c} 6 \Omega \\ 3) 6 \frac{1}{3} \Omega \end{array}$ 

4  $\Omega$ 4) 3  $\frac{1}{3}$   $\Omega$ 

#### **ANSWERS**

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

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87-1; 88-4; 89-2; 90-1; 91-2; 92-3; 93-3; 94-1; 95-2; 96-1; 97-2; 98-2; 99-1; 100-3.