<u>ACS(Prelim) – 2015 – Set – 1</u> GA

08856

: INSTRUCTIONS TO CANDIDATES :

THIS BOOKLET CONTAINS 100 QUESTIONS OF 1 MARK EACH IN 23 PAGES. PLEASE CHECK THE QUESTION-SET BEFORE USE. IF ANY DEFECTS ARE NOTICED, PLEASE BRING IT TO THE NOTICE OF THE INVIGILATOR.

- Read the instructions carefully before using the OMR answer sheet provided.
- 2. Fill in Part A of the OMR answer sheet first, mentioning the Roll No. and other data as applicable in the place(s) indicated therein and darken the appropriate circles in blue **or** black ball point pen only.
- While darkening the circle in Part B of the OMR answer sheet, use blue or black ball
 point pen only. No correction fluid, eraser or any correction in the OMR answer sheet
 will be acceptable.
- 4. Do not write any name/surname or put any symbol, sign, slogan, prayer or any mark of identification in Part B of the OMR answer sheet. Any such act is liable to render the answer sheet unfit for evaluation.
- Do not use any other form except the OMR answer sheet provided along with the question-set.
- 6. Do not tamper with the bar code or any other portion of the OMR answer sheet.
- Candidates may use the blank sheet attached to these instructions for doing the rough work, if needed.
- 8. Do not attach any additional sheet or paper to the OMR answer sheet.
- Return the OMR answer sheet only to the Invigilator before leaving the Examination Hall.
- Candidates may take with them the respective question-sets after the examination is over.
- 11. Mobile Phone or any Communication Devices is not allowed inside the Examination Hall. The candidates are strictly advised not to carry any Mobile Phone or Communication Devices with them into the Examination Hall. Any candidate who is in possession of Mobile Phone or Communication Devices inside the Examination Hall is liable to be debarred from the valuation of his/her answer paper.
- 12. Violation of these instructions shall entail disqualification of the candidate.
- 13. There is negative marking of 0.25 mark for each wrong answer.

TJ - 1A/28

(Turn over)

ACS(Prelim) - 2015 - Set - 1 GA

Time: 1 1 Hours

Full Marks: 100

Each question carries 1 mark.

There is negative marking of 0.25 mark for each wrong answer.

Answer all questions, choosing the correct one from the alternatives suggested and darken the appropriate circle using BLUE or BLACK BALL POINT PEN.

- 1. Which of the following is not due to surface tension?
 - (1) Icebergs floating on sea water
 - (2) Tears of wine forming on the glass
 - (3) Water beading on a leaf
 - (4) Water dripping from a tap
 - (5) Water striders stay atop the liquid
- Which is used to increase or decrease voltage of alternating current in electric power applications?
 - (1) Amplifier
 - (2) Capacitor
 - (3) Circuit breaker
 - (4) Conductor
 - (5) Transformer

- 3. What is meant by 'Torque'?
 - The change in velocity per unit time
 - (2) The rate at which certain work is done
 - (3) The resistance to change in state of motion
 - (4) The change in position of an object with respect to time
 - (5) The twisting force that tends to cause rotation
- 4. What is the approximate velocity of light (in vacuum) in centimeters per second?
 - (1) 3×10^6
 - (2) 3×10^8
 - (3) 3×10^{10}
 - (4) 3×10^{12}
 - (5) 3×10^{14}

5.	Whi	Which of the following pairs of rays						
	is el	is electromagnetic in nature?						
	(1)	Alpha rays and Beta rays						
	(0)	Alaba and Common rough						

- (2) Alpha rays and Gamma rays
- (3) Beta rays and Gamma rays
- (4) Cathode rays and X-rays
- (5) Gamma rays and X-rays
- 6. Which is the unit of electric conductance, electric susceptance and electric admittance?
 - (1) Coulomb
 - (2) Joule
 - (3) Henry
 - (4) Hertz
 - (5) Siemens
- 7. Which of the following is not a metalloid?
 - (1) Antimony
 - (2) Arsenic
 - (3) Bismuth
 - (4) Boron
 - (5) Silicon

8. Match the substances in Column – A with their uses in Column – B and find the correct answer set:

Column - A Column - B

- (A) Graphite
- (i) Dry Cell
- (B) Magnesium Sulphate
- (ii) Photography
- (C) Sodium thiosulphate
- (iii) Purgative
- (D) Zeolite
- (iv) Safety matches
- (v) Water purification

	(A)	(B)	(C)	(D)
1	i	iii	ii	iv
2	i	iii	iv	V
3	i	iv	ii	٧
4	iv	iii	ii	V
5	Ĭ	iii	ii	V

- 9. Which of the following acids is an important component of tamarind?
 - (1) Ascorbic acid
 - (2) Carboxylic acid
 - (3) Citric acid
 - (4) Oxalic acid
 - (5) Tartaric acid
- 10. What is responsible for tears to come out of the eyes while cutting onions?
 - (1) Presence of amino acid in the cell
 - (2) Presence of carbon in the cell
 - (3) Presence of fat in the cell
 - (4) Presence of starch in the cell
 - (5) Presence of sulfur in the cell

	rat	poison"?			the	human body is the appendix
	(1)	Zinc chloride			atta	ched?
	(2)	Zinc cyanide			(1)	Caecum
	(3)	Zinc nitrate			(2)	Colon
	(4)	Zinc phosphide			(3)	Gall bladder
	(5)	Zinc sulfide			(4)	Ileum
12.		/ is glycol added to aviation	8		(5)	Stomach
12.	•	oline?	ľ	15.	Whi	ch of the following glands in the
	(1)	To increase efficiency of petrol	ľ		hum	an body is coexists with "Adam's
					Арр	le" ?
	(2)	To maintain liquid state of petrol		32	(1)	Adrenal
	(3)	To prevent freezing of petrol			(2)	Pineal
	(4)	To reduce consumption of petrol	ĺ		(3)	Pituitary
	(5)	To reduce evaporation of	Ē		(4)	Thymus
	3 -2	petrol			(5)	Thyroid
13.	Fron	n which oil is the extra mild soap,		16.	Тос	liagnose which disease is the
	ofter	n known as the 'Castile soap',	i		ВМ	O test carried out?
	man	ufactured?		Æ	(1)	Asthma
	(1)	Coconut oil			(2)	Diabetes
	(2)	Laurel oil				
	(3)	Olive oil			(3)	Hepatitis
	(4)	Sal seed oil			(4)	Malaria
	(5)	Palm kernel oil			(5)	Osteoporosis
TJ —	1A/2	В	(5)			(Turn over)

14. To which of the following structures in

11. Which of the following is used as a

- 17. By which of the following techniques can a large number of identical plants be obtained within a short span of time?
 - (1) Hydroponics method
 - (2) Plantation of stem cuttings
 - (3) Recombinant DNA technique
 - (4) Showing large number of seeds of single plant
 - (5) Tissue culture technique
- 18. Which of the following bacteria play key roles in carbon and nitrogen cycles of biosphere?
 - (1) Acidobacteria
 - (2) Actinobacteria
 - (3) Cyanobacteria
 - (4) Fusobacteria
 - (5) Proteobacteria
- 19. With which of the following movements to promote biodiversity conservation is the environmental activist, Vandana Shiva associated?
 - (1) Appiko Movement
 - (2) Chipko Movement
 - (3) Jungle Bachao Andolan
 - (4) Navdanya Movement
 - (5) Save Silent Valley Movement

- 20. Following are the pairs of research institutes under the Indian Council of Forestry Research and Education (ICFRE) and their locations. Identify the incorrect pair:
 - (1) Himalayan Forest Research Institute (HFRI) — Shimla
 - (2) Institute of Forest Bio-diversity(IFB) Ranchi
 - (3) Institute of Forest Genetics and Tree Breeding (IFGTB) — Coimbatore
 - (4) Rain Forest Research Institute (RFRI) Jorhat
 - (5) Tropical Forest Research Institute (TFRI) Jabalpur
- 21. What is "Recycle Bin" in the MS Windows environment?
 - (1) The folder in which deleted files are stored
 - (2) The folder in which obsolete files are stored
 - (3) The folder in which program files are stored
 - (4) The folder in which security files are stored
 - (5) The folder in which temporary files are stored

22.	'Inte	ich of the following is not a ernet search engine' but a 'We wser' ?		25.	is u	at happens when the 'Ctrl+=' key used in the Microsoft Word gram ?
	(1)	Amazon			(1)	It creates a subscript
	(2)	Bing			(2)	It creates superscript
	(3)	Google			(3)	It decreases the font size
	(4)	Mozilla Firefox			(4)	It increases the font size
	(5)	Yahoo			(5)	It strikes through the text
23.	reco man or ch (1) (2) (3)	ch is the file that has bee orded in the disc at the time of sufacture and cannot be erased anged by the user? Memory-only Once-only Read-only	of	26.	pho	ich of the following solar tovoltaic plants in India has ome operational in June, 2015? ACME Solar Project Azure Solar Project Charanka Solar Park
	(4)	Run-only			(4)	Sakri Solar Plant
	(5)	Write-only			(5)	Wellspun Solar MP Project
24.	withi	ch of the following is not present in the drop-down menu, where con 'AutoSum' is clicked in an el worksheet? Average Max Mid Min Sum	n	27.	Men	has won the Wimbledon Tennis 's title in the recently concluded nament in July, 2015? Dustin Brown Novak Djokovik Rafael Nadal Roger Federer Stan Wawrinka
TJ –	1A/28	8	(7)			(Turn over)
			1140 1140		40	Section of Contract Contract Contract

- 28. Which Indian artist has been conferred with the highest French civilian honour, "Commandeur de la Legion d' Honneur" in July, 2015?
 - (1) Manjit Bawa
 - (2) Maya Burman
 - (3) Prafulla Dahanukar
 - (4) Syed Haider Raza
 - (5) Wajid Khan
- 29. The Legislative Assembly of which state has passed the "Guarantee of Public Services Bill, 2015" on 14th July, 2015?
 - (1) Gujarat
 - (2) Karnataka
 - (3) Madhya Pradesh
 - (4) Maharashtra
 - (5) Tamil Nadu
- 30. In which month of 2015 was the official 'Wholesale Price Index' in India the lowest among the months as per the latest Ministry of Commerce and Industry report?
 - (1) February
 - (2) March

- (3) April
- (4) May
- (5) June
- 31. Which missile system has been inducted into Indian Air Force on 10th July, 2015?
 - (1) Agni III
 - (2) Akash
 - (3) BrahMos
 - (4) Dhanush
 - (5) Nirbhay
- 32. In which country is the "New Development Bank" that was formed on 15th July, 2015 by the BRICS nations has its headquarters?
 - (1) Brazil
 - (2) China
 - (3) India
 - (4) Russia
 - (5) South Africa
- 33. Which is the tallest of the architectural structures in the world?
 - (1) Abraj Al Bait
 - (2) Burz Khalifa
 - (3) Tokyo Skytree
 - (4) Patronas Tower
 - (5) Willis Tower

- 34. For which of the following books has Sri Viswanath Tripathy been selected to receive the 28th Mootidevi Award for the year 2014?
 - (1) Deshke Is Daur Main
 - (2) Nagatlai Ka Gaon
 - (3) Jaisa Kaha Saka
 - (4) Ped Ka Hath
 - (5) Vyomkesh Darvesh
- 35. Which of the following districts in Odisha does not come under "Very Highly Prone" category to Tropical Cyclones as per the latest India Meteorological Department release in July, 2015?
 - (1) Balasore
 - (2) Bhadrak
 - (3) Ganjam
 - (4) Jagatsinghpur
 - (5) Kendrapada
- 36. The veteran film personality from South India, M. S. Swaminathan has passed away off late on 14th July, 2015. What was he?
 - (1) A Film Actor
 - (2) A Film Director
 - (3) A Music Director
 - (4) A Playback Singer
 - (5) A Poet and Lyricist

- 37. Which of the following statements about the newly formed NITI Aayog is not correct?
 - It is an advisory body, or a thinktank
 - (2) It has no power to allocate funds
 - (3) It has no power to impose policies
 - (4) It has a Deputy Chairperson and a Member Secretary
 - (5) Its Governing Council has Chief Ministers and Lt. Governors as members
- 38. Which "Bhog" of Lord Jagannath is not offered near the 'Ratnabedi'?
 - (1) Bada Simhara Bhoga
 - (2) Gopal Vallabh Bhoga
 - (3) Madhyanha Dhupa
 - (4) Sakala Dhupa
 - (5) Sandhya Dhupa
- 39. Who is the author of the book "India Shastra", released in 2015?
 - (1) Amitabh Ghosh
 - (2) Anu Agrawal
 - (3) Madhuri Banerjee
 - (4) Navoneel Chakraborty
 - (5) Shashi Tharoor

- 40. Who has translated most of the poems of T. S. Eliot into Odia?
 - (1) Guruprasad Mohanty
 - (2) Gyanendra Verma
 - (3) Ramakanta Rath
 - (4) Mayadhara Mansingh
 - (5) Sachi Routray
- 41. To which of the following classical dance forms does the famous dancer Krishnakshi Kashyap belong?
 - (1) Kathak
 - (2) Kuchipudi
 - (3) Manipuri
 - (4) Mohiniyattam
 - (5) Sattriya
- 42. Which ship-building factory in India is equipped to build ships of more than 1,00,000 DWT size?
 - (1) Cochin Shipyard Ltd.
 - (2) Goa Shipyard Ltd.
 - (3) Hindustan Shipyard Ltd.
 - (4) Hooghly Dock and Port Engineers Ltd.
 - (5) Mazgaon Dock Shipbuilders Ltd.

- 43. Which of the following is not a characteristic of Palaeolithic Age in India?
 - Man learned to live a settled life during this period
 - (2) Man used to lead his life in groups to ensure safety from wild animals
 - (3) Most of the tools of this period were made of stone
 - (4) People of this period mostly lived in rock shelters or thatched roof huts
 - (5) The Homo sapiens or the modern man emerged in this age
- 44. Which of the following Jain 'Tirthankaras' was a female as believed by the Svetambara Jains?
 - (1) Mallinatha
 - (2) Naminatha
 - (3) Neminatha
 - (4) Shantinatha
 - (5) Sumatinatha
- 45. Which war was fought between Nadir Shah and the Moghul ruler Muhammad Shah?
 - (1) Battle of Chandawar
 - (2) Battle of Chanderi
 - (3) Battle of Ghagra
 - (4) Battle of Karnal
 - (5) Battle of Khanwa

46.		ch of the following is an ancie			(2)	Dutch
	polic	y and military strategy?			(3)	English
	(1)	Arthashastra			(4)	French
	(2)	Atharvaveda			(5)	Portuguese
	(3)	Mahabharata		50.	Whi	ch of the following Acts in the
	(4)	Manusmriti				sh India is better known as the
	(5)	Rajatarangini			Pitt's	India Act?
47.		ch of the following dynasties		@	(1)	East India Company Act of 1772
		th India was founded b urasharma?	У		(2)	East India Company Act of
	(1) (2)	Chera Chola			(3)	East India Company Act of 1793
	(3) (4)	Kadamba Pallava	,		(4)	East India Company Act of
	(5)	Pandya				1813
48.		ch fort was the capital of th			(5)	Regulating Act of 1773
		atha King Chhatrapati Shivaj re he was crowned in 1674?	i,	51.		Manjhi led the first ever tribal tagainst the local landlords and
	(1)	Pratapgad Fort				sh Government in 1771. To
	(2)	Purandhar Fort			whic	ch tribal community did he
	(3)	Raigad Fort			belor	ng ?
	(4)	Sindhudurg Fort			(1)	Bhumij
	(5)	Sivneri Fort			(2)	Chero
49.	Whic	h of the Europeans were the firs	st		(3)	Munda
	to es	tablish their colony in India?			(4)	Oraon
	(1)	Danish			(5)	Santhal
TJ-	1A/28	3	(11)			(Turn over)

- 52. Who among the following revolutionaries from Ghens Zamindar family in western Odisha was deported to Andaman Cellular Jail for a life imprisonment?
 - (1) Bairi Singh
 - (2) Hate Singh
 - (3) Kunjel Singh
 - (4) Madho Singh
 - (5) Narayan Singh
- 53. Which freedom fighter had written the book on the Indian rebellion of 1857 titled "The History of the War of Indian Independence"?
 - (1) M. P. Tirumal Acharya
 - (2) Madame Bhikaji Cama
 - (3) Subramanya Bharathi
 - (4) V. V. Subramaniam Aiyar
 - (5) Vinayak Damodar Savarkar
- 54. Match the names of revolutionaries in Column – A with the associated revolutionary activity in Column – B and find the correct answer set :

Column - A Column - B

- (A) Aurobindo Ghosh (i) Alipur Bombing
- (B) Bhagat Singh (ii) Chittagong
 Arms Raid

Column - A Column - B

- (C) Muzaffar Ahmad (iii) Kakori
 Conspiracy
- (D) Ram Prasad (iv) Lahore

 Bismil Conspiracy
 - (v) Meerut Conspiracy

	(A)	(B)	(C)	(D)
1	i	iv	ii	iii
2	ı	iv	V	ii
3	i	V	ii	iii
4	i	iv	٧	iii
5	v	iv	ii	iii

- 55. Which of the following pairs of ethnic people and their geographical territory is incorrectly matched?
 - (1) Bedouins Central Asian Desert
 - (2) Maasais African Great Lakes Area
 - (3) Samoyeds Tundra Region
 - (4) Semangs Malaysian Plateau
 - (5) Pygmies Congo Basin
- 56. Through which of the following states of India the standard meridian of India does not pass through?
 - (1) Andhra Pradesh
 - (2) Chhattisgarh
 - (3) Jharkhand
 - (4) Madhya Pradesh
 - (5) Odisha

(12)

Contd.

- 57. With which of the following states in India does Bangladesh share the Iongest part of its International boundary?
 (1) Assam
 - (2) Meghalaya
 - (3) Tripura
 - (4) Mizoram
 - (5) West Bengal
- 58. Where do the Vindhya Range and the Maikal Hills meet?
 - (1) Amarkantak
 - (2) Champaner
 - (3) Kaimur
 - (4) Rewa
 - (5) Panna
- 59. Which of the following streams does not belong to the Mahanadi drainage system?
 - (1) The Bhargabi
 - (2) The Daya
 - (3) The Kuakhai
 - (4) The Kushabhadra
 - (5) The Salia

- 60. Which one of the following pairs of lakes and associated areas is not correctly matched?
 - The Suraj Tal Lahaul and Spiti Valley
 - (2) The Pangong Tso Ladakh Plateau
 - (3) The Tso Moriri Eastern Himalayas
 - (4) The Wular Kashmir Valley
 - (5) The Bhimtal Kumaon Himalayas
- 61. Which of the following west flowing rivers in India does not drain into the Gulf of Khambat?
 - (1) The Mahe
 - (2) The Mandovi
 - (3) The Narmada
 - (4) The Sabarmati
 - (5) The Tapti
- 62. In which state of India is the yield rate of sugarcane the highest?
 - (1) Haryana
 - (2) Karnataka
 - (3) Maharashtra
 - (4) Tamil Nadu
 - (5) Uttar Pradesh

- 63. Which of the following stretches is not common between the "North-South-East-West Corridors" and the "Golden Quadrilateral" highways in India?
 - (1) Akbarpur Kanpur
 - (2) Bengaluru Krishnagiri
 - (3) Delhi Agra
 - (4) Kochi Salem
 - (5) Udaipur Chittorgarh
 - 64. Match the minerals in Column A with the corresponding mines in Column B and find the correct answer set:

Column - A Column - B

- (A) Bauxite
- (i) Bailadila
- (B) Copper
- (ii) Khetri
- (C) Gold
- (iii) Kodarma
- (D) Iron Ore
- (iv) Kolar
- (E) Mica
- (v) Neyveli
- (vi) Panchapatmali

	(A)	(B)	(C)	(D)	(E)
1	Vi	V	iv	i	iii
2	vi	ii	iv	i	iii
3	v	ii	iv	l i	iii
4	vi	ii	٧	i	iii
5	vi	ii	iv	V	j.

- 65. Which hydel project in Odisha has the highest hydro-power generating capacity?
 - (1) Balimela
 - (2) Hirakud
 - (3) Rengali
 - (4) Upper Kolab
 - (5) Upper Indravati
- 66. On which island is the "Salim Ali Bird Sanctuary" located ?
 - (1) Chorao
 - (2) Divar
 - (3) Kavvayi
 - (4) Munroe
 - (5) Vashee
- 67. Which Article of the Indian Constitution prescribes that all proceedings in the Supreme Court shall be in English language?
 - (1) Article 343
 - (2) Article 345
 - (3) Article 348
 - (4) Article 349
 - (5) Article 350

- 68. The dominant thrust of which constitutional amendment in India was to reduce the role of the courts?
 - (1) 41st
 - (2) 42nd
 - (3) 43rd
 - (4) 44th
 - (5) 45th
- 69. Who among the following was elected unopposed to the post of President of India?
 - (1) A. P. J. Abdul Kalam
 - (2) Fakhruddin Ali Ahmad
 - (3) Neelam Sanjiva Reddy
 - (4) Sarvepalli Radhakrishnan
 - (5) Zakir Hussain
- 70. Which one of the following is largest of the Lok Sabha constituencies (area-wise) in India?
 - (1) Arunachal East
 - (2) Barmer
 - (3) Kachchh
 - (4) Kangra
 - (5) Ladakh
- 71. Which of the following posts in India is merely statutory but not constitutional?
 - (1) Attorney General of India

- (2) Chairman of National Green
 Tribunal
- (3) Chairman of Union Public Service Commission
- (4) Comptroller and Auditor General of India
- (5) Solicitor General of India
- 72. T. H. Green was the exponent of :
 - (1) Historical theory of rights
 - (2) Idealistic theory of rights
 - (3) Legal theory of rights
 - (4) Social welfare theory of rights
 - (5) Theory of natural rights
- 73. Which of the following does the 'Pradhan Mantri Gramodaya Yojana' aim at ?
 - Alleviating poverty through micro-enterprise
 - (2) Ensuring employment guarantee to rural people
 - (3) Generating employment in the rural areas
 - (4) Meeting rural needs like rural roads, primary education, housing, drinking water and health care etc.
 - (5) Strengthening the PanchayatiRaj System in rural areas

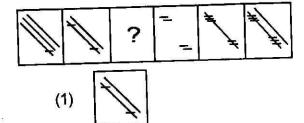
(Turn over)

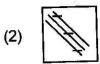
- 74. What does 'Fiscal Deficit' mean in the Union Budget?
 - Budgetary deficit plus the net borrowings of the Government
 - (2) Net increase in Union Government's borrowings from the Reserve Bank of India
 - (3) Primary deficit minus capital deficit
 - (4) The difference between current expenditure and current revenue
 - (5) The sum of monetised deficit and budgetary deficit
- 75. Which of the following industries in India were worst affected because of the partition in 1947?
 - (1) Cement and Engineering
 - (2) Cement and Paper
 - (3) Cotton and Jute
 - (4) Cotton and Sugar
 - (5) Iron and Paper
- 76. Which of the following does not happen in the event of price-rise?
 - Adverse effect on balance of payments
 - (2) Adverse effect on the economic conditions of fixedincome groups

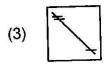
- (3) Adverse effect on speculation
- (4) Generation of black money
- (5) Debtors benefit at the expense of creditors
- 77. From which of the following sources is the collection of Central Revenue the highest in India?
 - (1) Corporate tax
 - (2) Customs duty
 - (3) Excise duty
 - (4) Other taxes
 - (5) Personal income tax
- 78. Which of the following statements about 'Stamp Duties' is correct?
 - (1) Levied and collected by the Central Government
 - (2) Levied by Central Government but collected and appropriated by the State Governments
 - (3) Levied and collected by the Central Government but shared with the State Governments
 - (4) Levied and collected by the Local Bodies
 - (5) Levied and collected by the State Governments

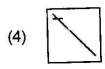
79.	Which	n one among the following	8	2. '	What is	s the angle between the hour
	state	s in India characterises with the				and the minute hand of a clock
		nest gender disparity as per	Ī) minutes past 3 O'clock ?
	201	1 Census ?		¥		
	(1)	Bihar			(1)	120°
	(2)	Gujarat			(2)	125°
	(3)	Haryana			(3)	130°
	(4)	Punjab			(4)	135°
	(5)	Uttar Pradesh			(5)	140°
80.		d the missing number in the wing series :		83.	Six fr	iends — P, Q, R, S, T and U are
					sittin	g around a hexagonal table
	741	4, 10,, 82, 244, 730.				ng at the centre of the table. P
	(1)	24				cond to the left of U. Q is the
	(2)	28				
	(3)	77			neign	bour of R and S. T is second
	(4)	162			to the	left of S.
	(5)	218			Which	n of the following statements is
81.	The	calendar for which of the			incorr	ect?
	follov	ving years shall be same as the			(1)	P is the fourth person to the left
žį	curre	ent year, 2015 ?		ÿ		of Q
	(1)	2024			(2)	Q and S are neighbourers of U
	(2)	2025				***
	(3)	2026			(3)	Q is sitting opposite to T
	(4)	2027			(4) 5	S is sitting opposite to P
	(5)	2028			(5) 1	and R are neighbourers of P
.TJ-	1A/28		17)			(Turn over)

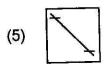
- 84. Six players Anand, Deba, Kartik, Nirmal, Pramod and Shankar are standing in a playground, all facing South. Study the following facts and find the person standing to the South-West of the person left of Kartik:
 - (a) Kartik is at a distance of 40 meters to the right of Anand
 - (b) Deba is at a distance of 60 meters to the North of Kartik and 40 meters to the East of Shankar
 - (c) Nirmal is at a distance of 25 meters to the left of Anand
 - (d) Pramod is at a distance of 90 meters to the South of Deba
 - (1) Anand
 - (2) Deba
 - (3) Nirmal
 - (4) Pramod
 - (5) Shankar
 - 85. Which figure shall replace the '?' in the series of figures given below?











- 86. Looking at the portrait of a man, Madhab said, "His mother is the wife of my father's son. Brothers and sisters I have none". At whose portrait was Madhab looking?
 - (1) His brother-in-law
 - (2) His cousin
 - (3) His nephew
 - (4) His son
 - (5) His uncle
 - 87. In a coded language the word 'TAMILNADU' is written as ALDALDALD. How will the word 'TELENGANA' be written in the same language?
 - (1) ENEENEENE
 - (2) ENNENNENN
 - (3) LGALGALGA
 - (4) TEATEATEA
 - (5) TETEATEAT

Contd.

- 88. If n is a natural number, then n(n + 1)(n + 2) is always divisible by :
 - (1) 5
 - (2) 6
 - (3) 7
 - (4) 8
 - (5) 9
- 89. Find the value of the following term when a + b = c:

$${(a + 8)^2 + (b + 8)^2 + (c - 8)^2} - (a^2 + b^2 + c^2).$$

- (1) 176
- (2) 184
- (3) 188
- (4) 192
- (5) 200
- 90. A college has admitted 40% additional number of students during the current year than the previous year. Due to government stipulation, girls have been exempted from fees this year, and hence the college has enhanced the fees of the boys by 25% to equalise the total fee collection with last year. What is the ratio of boys and girls this year?
 - (1) 2:1
 - (2) 3:1

- (3) 3:2
- (4) 3:4
- (5) 4:3
- 91. A dealer allows 16% discount to the retailer on the printed price of an electrical appliance and still makes a profit of 5%. The retailer sales the same to the customer for Rs. 540 at a discount of 10% on printed price. What is the cost price of the appliance for the dealer?
 - (1) 479
 - (2) 480
 - (3) 490
 - (4) 504
 - (5) 510
- 92. Given the value of x = 0.2163, choose the correct value of the following equation from the given options:

$$3x + \sqrt{4x^2 - 4x + 1}$$

- (1) 0.2163
- (2) 0.4326
- (3) 1.0815
- (4) 1.2163
- (5) 1.4326

- 93. An amount of Rs. 2,720 is divided among Bijaya, Naba and Deba such that Bijaya gets $\frac{2}{3}$ of what Naba gets, while Naba gets $\frac{1}{4}$ of what Deba gets. How much does Naba get?
 - (1) Rs. 160
 - (2) Rs. 320
 - (3) Rs. 480
 - (4) Rs. 800
 - (5) Rs. 1,920
- 94. The length and breadth of a rectangular park are in the ratio of 3:2. If a cyclist moving with a speed of 12 km/hour along the perimeter of the park completes a round in 8 minutes, then find the area of the park in m²:
 - (1) 112800
 - (2) 142000
 - (3) 142500
 - (4) 153600
 - (5) 162400
- 95. There are two sections, A and B, of a class. If 15 pupils will be sent from Section A to Section B, then the number in both the sections will be equal. If 20 pupils will be sent from

Section B to Section A, the number in Section A will become double of that of Section B. What is the actual strength of Section A?

- (1) 80
- (2) 90
- (3) 100
- (4) 120
- (5) 140

Direction (Q. Nos. 96 to 100): Answer the following questions using the data given in the table below.

Number of units (in Crores) sold by six different companies over the years: 2008-2013.

Company \ Year	2008	2009	2010	2011	2012	2013
M	26.51	28.48	36.60	38.02	80.00	107.02
N	27.53	32.80	31.38	43.01	76.00	175.13
0	19.02	43.70	40.12	45.22	66.49	156.61
Р	25.11	56.60				112.44
Q	22.54			48.93		111.83
R	17.03	31.04	30.00	42.24	72.17	192.01

- 96. In which year is the percentage increase / decrease in the number of units sold from the previous year for company Q the lowest?
 - (1) 2009
 - (2) 2010
 - (3) 2011
 - (4) 2012
 - (5) 2013

- 97. What is the percentage of the number of units sold by company M in the year 2012 to the total number of units sold by all the companies together in that year?
 - (1) 14.21
 - (2) 16.24
 - (3) 16.71
 - (4) 17.09
 - (5) 20.32
- 98. Which company has sold the maximum number of units over the six years?
 - (1) M
 - (2) N
 - (3) O
 - (4) Q
 - (5) R

- 99. Which year has been a year of retardation in sales of most of the companies ?
 - (1) 2009
 - (2) 2010
 - (3) 2011
 - (4) 2012
 - (5) 2013
- 100. Which company does show a continued growth in its sales over the years?
 - (1) M
 - (2) N
 - (3) O
 - (4) P
 - (5) R