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Time: 3 Hours

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Full Marks: 200

Each question carries 2 marks.

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

- Which of the following statements about 'Sound' is incorrect?'
 - (1) Sound can't travel in vacuum
 - (2) Sound comes from vibrations
 - (3) Sound is a transverse wave
 - (4) Sound is an energy
 - (5) Sound travels faster in water than in air
- The mass-energy ralation is the outcome of :
 - (1) General theroy of relativity
 - (2) Quantum field theory
 - (3) Quantum theory
 - (4) Special theory of relativity
 - (5) Uncertainty principle
- The arc shape of the rainbow is mainly due to:
 - (1) Diffraction of sunlight
 - (2) Dispersion of sunlight

- (3) Refraction of sunlight
- (4) Reflection of sunlight
- (5) Scattering of sunlight
- 4. Which of the following phenomena is responsible for the rise of oil in the wick of a lamp?
 - (1) Capillary action
 - (2) Diffusion
 - (3) Osmosis
 - (4) Surface tension
 - (5) Vapour pressure
 - Which one of the following is a scalar quantity?
 - (1) Charge
 - (2) Current density
 - (3) Force
 - (4) Momentum
 - (5) Torque

INDIRESULTE AA – 3A/11

(3)

(Turn over)



- 6. What type of energy conversion does take place in anuclear reactor?
 - Chemical to heat and light
 - Electric to sound (2)
 - Heat to electric (3)
 - Kinetic to heat (4)
 - Mass to heat (5)
- 7. Which among the following types of water is the best conductor of electricity?
 - Distilled water (1)
 - Filtered hot water (2)
 - (3) Filtered water at normal temperature
 - Rain water (4)
 - Saline water
- Match each of the following quantities 8. in Column - A with their SI units in Column - B and select the correct answer set from the table given below:

Column - B Column - A

- (i) Dioptre (a) Angular velocity
- (ii) Gauss (b) Impulse -
- (c) Magnetic Induction (iii) Newton-second
- (iv) Pascal (d) Power of lens
- (v) Poise (e) Pressure /



(vi) Radian/second

,		(m) - 10	(c)-11	(d)-1	(e) - iv
41	(a)v (a) - vi	(6)	101-11	(d)-i	(e) - iv
12	(a) - VI	(6) - 4	(C) - V	(d)-1	(e) - iv
73	(a) - III	(b) - 11	(0) -11	(d)-1	(e) - iv
. 4	(a) - vi	(D) - III	(0)	(d) - V	(e)-12
J 5	(a) - vi	(D) - III	(0)-11	(4)	1 1 1 1 1

- In which of the following industries 'rock phosphate' is used extensively?
 - (1) Cement
 - Construction (2)
 - Fertiliser (3)
 - (4) Ferro-alloys
 - Electrical appliances
- Which one of the following forms the basis of the "Modern Periodic Table ?
 - Atomicity (1)
 - Atomic number
 - Atomic volume **'⊳(3)**
 - (4)Atomic weight
 - Mass number
- The order 'ionic bond > coordinate bond > covalent bond" is true for four of the following parameters. Identify the other parameter for which this order is not correct.:
 - (1) Boiling point
 - Electrical conductance (2)
 - Melting point (3)
 - Solubility (4)
 - Thermal stability (5)



- 12. Which among the following elements exists in allotropic forms ?
 - (1) Magnesium
 - (2) Potassium
 - (3) Silicon
 - (4) Sodium
 - (5) Sulphur
- 13. Which among the following statements regarding 'heavy water' is not correct?
 - (1) It is chemically known as Deuterium Oxide (D₂O)
 - (2) It is a colourless, odourless and tastless liquid
 - (3) It is used in nuclear reactors to hasten the slow moving neutrons
 - (4) Its melting point is 273.2 K and boiling point is 374.4 K
 - (5) It was discovered by Urey in 1932
- 14. Which among the following noble gases is not present in the earth's atomosphere?
 - (1) Argon
 - (2) Krypton
 - (3) Neon
 - (4) Radon
- (5) Xenon
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- 15. Consider the following statements as regards to the by-products of the sugar industry:
 - (i) Bagasse can be used as bio-fuel for generation of energy
 - (ii) Molasses can be used for the production of industrial alcohol
 - (iii) Molasses can be used for the production of synthetic chemical fertilisers

Which of the above statements is/are correct?

- (1) (i) only
- (2) (i) and (ii) only
- (3) (i) and (iii) only
 - (4) (ii) and (iii) only
 - (5) (i), (ii) and (iii) only
- 16. Where in the following glands of the human body are the 'Islets of Langerhans' present?
 - (1) Adrenal gland
 - (2) Hypothalamus
 - (3) Pancreas
 - (4) Pituitary gland
 - (5) Thyroid gland

- 17. Which plant organelle is involved in the process of transpiration?
 - (1) Cell nucleus
 - (2) Cell wall
 - (3) Chloroplast
 - (4) Ribosome
 - (5) Stomata
- 18. Which of the following is the main constituent of haemoglobin?
 - (1) Calcium
 - (2) Chlorine
 - (3) Iron
- (4) Phosphorous
 - (5) Potassium
- 19. What is the main function of the meristematic tissue in plants?
 - (1) Carbon assimilation
 - (2) Conduction of water
 - (3) Growth of new cells
 - (4) Mechanical strength
 - (5) Transport of food
- 20. In case of failure of which of the following organs in the human body is 'Dialysis' carried out?
 - (1) Gallbladder
 - (2) Heart

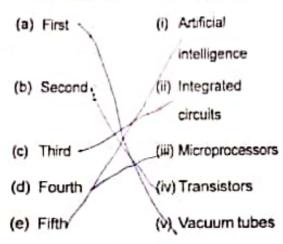


- (3) Kidney
- (4) Liver
- (5) Lungs
- 21. Which of the following substances, listed within the brackets below, can be found as pollutants in drinking water in some parts of India?
 - (ii) Arsenic, (ii) Fluoride(iii) Formaldehyde, (iv) Sorbital,
 - (v) Uranium)] ~~
 - (1) (i) and (ii) only
 - (2) (i), (ii) and (v) only ~
 - (3) (iii), (iv) and (v) only .
 - (4) (i), (ii), (iii) and (v) only
 - (5) All (i), (ii), (iii), (iv) and (v) only
- 22. Which one of the following is the correct sequence of ecosystems in the order of increasing productivity?
 - (1) Lakes ; mangroves ; grasslands; oceans
 - (2) Grasslands; lakes; oceans; mangroves
 - (3) Lakes ; grasslands ; oceans ; mangroves
 - (4) Grasslands ; lakes ; mangroves ; oceans
 - (5) Oceans ; mangroves ; lakes ; grasslands



23. Match each of the following generations of computers in Column – A with their significant developments in Column – B and select the correct answer set from the table given below:

Column - A Column - B



Answers

1	(a) - v	(b) - iv.	(c)-ii-	(d)-iii	(e)-i
2	(a) - v	(b) - ii	(c) - iv	(d)-iii-	(e)-i
3	(a) - v	(b) - iv.	(c)-ii-	(d) - i	(e)-iii
4	(a) - v	(b) - iv	(c) - fii	(d) – ii	(e) - i
		(b) - v			

- 24. Which of the following computer languages does not find use in artificial intelligence?
 - (1) COBOL
- (2) JAVA
 - (3) LISP
 - (4) PROLOG



- 25. Which satellite was lanunched into space by India on the 12th April, 2018 by the launch vehicle PSLV-C41?
 - (1) CartoSat-2F
 - (2) GSAT-6A
 - (3) IRNSS-1H
 - (4) IRNSS-11
- (5) MicroSat-TD
- 26. Which of the following films has got the Best Picture award in the Oscar Awards, 2018 ?
 - (1) A Fantastic Women
 - (2) Blade Runner 2049
 - (3) Darkest Hour
- (4) Dunkirk (5) The Shape of Water
- 27. Where has China opened an overseas naval base off late?
 - (1) Azores Islands
 - (2) Djibouti
- (3) Timor-Leste
 - (4) Vanuatu
 - (5) Walvis Bay

(Tum over)

(7)

28. In which of the following orders are the countries placed in terms of medal table ranking in the recently concluded Commonwealth Games, 2018 ?

(i - Australia, ii - Canada,iii - England, iv - India, v - NewZealand)

- (1) i, ii, iv, iii, v
- (2) i, iii, ii, iv, v
- (3)~i, iii, iv, ii, v
- (4) i, ii, iii, iv, v
- (5) i, iii, v, iv, ii
- 29. Which batsman has scored the highest number of runs in a single innings in the recently played matches for the Nidahas Trophy in Sri Lanka?
 - (1) Kusal Perera
 - (2) Musfigur Rahim
 - (3) Rohit Sharma
 - (4) Sabbir Rahman
 - (5) Shikhar Dhawan
- 30. For which of the following works has Andrew Sean Greer been awarded the prestigious Pulitzer Prize for fiction for the year 2018?
- (1) Cost of Leaving INDIRESULTE AA 3AV11

(2) Everybody



- (3) In the Distance
- (4) Less
- (5) The Idiot
- 31. Match the names of the Padm Shri recipients from Odisha in 2018 in Column A with their field of excellence in Column B and select the correct set of answers from the table given below:

Column - A Column - B

- (a) Bhabani Charan (i) Art-Sculpture
 Patnaik
- (b) Chandrasekhar (ii) Art-Weaving Rath
- (c) Gobardhan (iii) Film making
 Panika
- (d) Prabhakar (iv) Healthcare Maharana
- (e) Sisir Purusottam (v) Literature and

Mishra Education

(vi) Public Affairs

	(a)	(p)	(c)	(d)	(e)
1	(vi)	(v)	(ii)	(i)	(iii)
2	(v)	(iv)	(iii)	(ii)	(i)
3	(vi)	(iii)	(ii)	(i)	(iv)
4	(vi)	(ii)	(v)	(i)	(iii)
5	(i)	(ii)	(iii)	(iv)	(v)

- 32. Which among the following Hindi comedy films released recently is an Amitabh Bachchan starrer?
 - (1) 102 Not Out
 - (2) 3 Dev
 - (3) Blackmail
 - (4) High Jack
 - (5) Nanu ki Jaanu
- 33. Which of the following organisations of the United Nations is currently being headed by Jim Yong Kim?
 - (1) FAO
 - (2) IMF
 - (3) ILO
 - (4) UNESCO
 - (5) WBG
- 34. Which of the following prominent terrorist groups, currently active, is a Somalian militant Islamist Organisation?
 - (1) Al-Qaeda
 - (2) Al-Shabaab
 - (3) Boko Haram
 - (4) ISIS
 - (5) The Taliban
- 35. Four of the following countries are members of BRICS, while the other one is not. Identify the one:
 - (1) Brazil
 - (2) Canada



- (3) India
- INDIRESULTED VOUR SUCCESS PARTNER
- (4) Russia (5) South Africa
- 36. Which of the following countries has bagged the Hockey World Cup for the maximum number of times?
 - (1) Australia
 - (2) India
 - (3) Netherlands
 - (4) Germany
 - (5) Pakistan
- 37. The national sports of which the following famous footbal paying nations is other than football?
 - (1) Argentina
 - (2) Brazil
 - (3) France
 - (4) Italy
 - (5) Poland
- 38. Which of the following folk art forms of India is a harmonious blend of Aryan, Dravidian and Tribai traditions?
 - (1) Kalamezhuthu
 - (2) Madhubani Painting
 - (3) Pattachitra Painting
 - (4) Tanjore Art

(9)

(5) Warli Folk Painting

(Turn over)



- 39. Between which two countries is the bilateral annual naval exercise SIMBEX conducted ?
 - (1) India and Malaysia
 - (2) India and Singapore
 - (3) Indonesia and Singapore
 - (4) Malaysia and Singapore
 - (5) Malaysia and Thailand
- In which of the following the saying
 "War begins in the minds of men' is stated?
 - (1) Atharva veda
 - (2) Mundaka Upanishad
 - (3) Rig veda
 - (4) Samveda
 - (5) Yajur veda
- 41. Which of the following learning centers achieved fame as the seat of learning of Hinayana Buddhism?
 - (1) Nalanda
 - (2) Odantapur
 - (3) Somapura
 - (4) Vallavi



42. Match each of the following Harappan sites in Column – A with the associated significant features in Column – B and select the correct answer set from the table given below:

Column - A

Column - B

- (a) Dholavira
- (i) Bangle factory
- (b) Harappa
- (ii) Canala
- (c) Mahenjo-Daro
- (iii) Port Town
- (d) Lothal
- (iv) Phallus worship
- (e) Chanhu Daro
- (v) The Great Bath
- (vi) Water harnessing system

Answers

1	(a) – ii	(b) - iv	(c) - v	(d) – iii	(e) - i
2	(a) - vi	(b) - iv	(c) - v	(d) – iii	(e)-i
3	(a) - vi	(b)-#	(c) - v	(d) - lii	(e) - i
4	(a) - vi	(b) - iv	(c)-ii	(d) - iii	(e)-I
5	(a)-i	(b) - iii	(c) - v	(d) - II	(e) - vi

- 43. During the Sangam Age, which of the following dynasties had Uraiyur as the seat of power?
 - (1) Cholas
 - (2) Chalukyas
 - (3) Cheras
 - (4) Pallavas
 - (5) Pandyas

INDIRESULT PARTIES

- 44. Which of the following pairs of officers and their assignments during the Sultanate Period in India is incorrectly matched?
 - (1) Ariz-i-Mamalik Chief Military Officer
 - (2) Barid-i-Mumalak Head of the Justice Department
 - (3) Diwan-i-Insha Minister in-Charge of Provincial Government
 - (4) Diwan-i-Wazarat Minister of Revenue
 - (5) Wakil e-Dar Control of Royal Household
- 45. Who amongst the military commanders of Alauddin Khalji was a eunuch slave-general?
 - (1) Ghazi Malik
 - (2) Malik Kafur
 - (3) Nusrut Khan
 - (4) Ulugh Khan
 - (5) Zafar Khan (1) (5) Zafar Khan (1) (5)
- 46. Who among the following Bhakti saints of medieval India was the pioneer of teaching "Nirguna Bhakti"?
 - (1) Namadeva
 - (2) Ramananda
 - (3) Ramanuja
 - (4) Sri Chaitanya
 - (5) Vallabhacharya

- 47. Which of the following is the correct sequence of the advent of Europeans into India?
 - English, Dutch, Portuguese, Danes, French
 - (2) Portuguese, Dutch, Danes, English, French
 - (3) Portuguese, Dutch, English,
 Danes French
 - (4) Portuguese, Dutch, English,French, Danes
 - (5) Portuguese, English, Dutch, Danes, French
 - 48. Who among the following was an acting Governor General of British India?
 - (1) Lord Auckland
 - (2) Lord Bentinck
 - (3) Lord Ellenborough
 - (4) Lord Hardinge
 - (5) Lord Metcalfe
 - 49. During the tenure of which Viceroy of British India did the Moplah rebellion take place in Kerala?
 - (1) Lord Chelmsford
 - (2) Lord Linlithgow
 - (3) Lord Reading
 - (4) Lord McDonald
 - (5) Lord Minto II

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(11)

(0)



- 50. Who among the following can be rightly called "The Theosophist, Educationist and Indian National Leader"?
 - (1) Annie Besant
 - (2) Bal Gangadhar Tilak
 - (3) Madan Mohan Malaviya
 - (4) Shyam Prasad Mukherji
 - (5) Srinivasa Shastri
- 51. Which state was annexed by the British by removing its ruler on the pretext of misgovernance?
 - (1) Awadh
- /(2) Jhansi
 - (3) Sambalpur
 - (4) Satara
 - (5) Surat
- 52. Where did the INA trials take place during 1945-46?
 - (1) Aga Khan Palace, Poona
 - (2) Ahmednagar Fort
 - (3) Lai Quila, Delhi
 - (4) Old Secretariat, Delhi
 - (5) Parliament House, Delhi



53. Match each of the following capital cities in Column – A with the associated rivers in Column – B and select the correct answer set from the table given below:

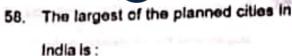
Column - A			Column – B		
(a)	Budapest.	(i)	The Danube		
(b)	Lisbon	(ii)	The Rhine		
(c)	London	(iii)	The Seine		
(d)	Paris	(w)	The Tagus		
(e)	Rome .	W	The Thames		
		(vi)	The Tiber		

		А	nswers	01	VI.
V	(e)-(ii)	(b)-(iv)	(c)-(v)	(d)-(m)	(e)-(vi)
12	(a)-(l)				(e) - (vi)
73	(a) - (l)	(b)-(ii)	(c)-(iv)	(d) - (iii)	(e)-(vi)
4	(a)-(i)	(b)-(N)	(c)-(ii)	(d) - (iii)	(e)-(v)
5	(e)-(iii)	(b)-(iv)	(c)-(v)	(d) - (a)	(e)-(vi)

- 54. Which of the following subtropical deserts is a cool coastal desert?
 - (1) Atacama
 - (2) Gibson
 - (3) Kalahari
 - (4) Sonoran
 - (5) Than



- 55. Which is the deepest of the lakes in the world?
 - (1) The Baikal
 - (2) The Caspian
 - (3) The Nyasa
 - (4) The Tanganyika
 - (5) The Vostok
- 56. Which among the following states of India does share the longest boundary with Bangladesh?
 - (1) Assam
 - (2) Meghalaya
 - (3) Mizoram
 - (4) Tripura
 - (5) West Bengal
- 57. Within which of the following states both the Tropic of Cancer and the Indian Standard Time meridian intersect?
 - (1) Chhattisgarh
 - (2) Jharkhand
 - (3) Odisha
 - (4) Uttar Pradesh
- (5) West Bengal



- (1) Bhubaneswar
- (2) Chandigarh
- (3) Gandhinagar
- (4) Greater Noida
- (5) Navi Mumbai
- 59. Identify the most important inland drainage system in India:
 - (1) The Banas
 - (2) The Luni
 - (3) The Mahi
 - (4) The Sabarmati
 - (5) The West Banas
- 60. In which of the following types of soils in India is cotton extensively cultivated?
 - (1) Bhabar
 - (2) Bhangar
 - (3) Kankar
 - (4) Khadar
 - (5) Regur

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- 61. In which state is the yield rate of 64. sugarcane the highest in India?
 - (1) Andhra Pradesh
 - (2) Kamataka
 - (3) Maharashtra
 - (4) Tamil Nadu
- (5) Uttar Pradesh
- 62. Which among the following hydroelectricity projects is associated with a different river than the other four?
 - (1) Baglihar
 - (2) Dul Hasti
 - (3) Pandoh
 - (4) Salal
 - (5) Ratle
- mined by the Steel Authority of India

 Ltd. (SAIL) ?
 - (1) Banspani
 - (2) Bolani
 - (3) Gandhamardan
 - (4) Joda
- (5) Thakurani Pahad

- 64. Which of the following oil refineries has the highest production capacity in India?
 - (1) BPCL, Kochi
 - (2) Essar, Vadinar
 - (3) HPCL, Vishakhapatnam
 - (4) IOCL, Paradip
 - (5) Reliance, Jamnagar
- 65. Through which of the following ports is iron ore from the Daitari mines exported?
 - (1) Haldia
 - (2) Mormugao
 - (3) New Mangalore
- (4) Paradip
 - (5) Visakhapatnam
- 66. Which one of the following is a human right as well as a fundamental right under the Constitution of India?
 - (1) Right to Education
 - (2) Right to Free Legal Aid
 - (3) Right to Housing
 - (4) Right to Information
 - (5) Right to Work



OF. Which Article of the Indian Constitution refers to the removal of the Deputy Chairman of the Rajya Baliha 7

10 1 - 7

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- (1) Article 61
- (2) Artinia 90
- (3) Artisle 94
- (4) Article 124(4)
- (5) Article 150
- 68. For the election of the President of India, the weightage of the vote of a member depends on :
 - (i) Population represented
 - (ii) The state to which he belongs
 - (iii) The strength of his political party in the Parliament.

Which of the above statements is/are correct ?

- (1) Only (i)
- (2) Only (ii)
- (3) Both (i) and (ii)
- (4) Both (ii) and (iii)
- (5) All (i), (ii) and (iii)
- 69. The Chairman of which of the following Committees is not appointed by the Speaker of the Lok Sabha?
- (1) Business Advisory Committee

4 - 3A/11

- (2) Committee on Public Undertakings
- (3) Estimates Committee
- (4) Joint Committee on Salaries and Allowances
- (5) Public Accounts Committee
- 70. Once a no confidence motion is admitted to the Lok Sabha, who decides the date for the debate ?
 - (1) President
 - (2) Vice-President
 - (3) Prime Minister
 - (4) Speaker of the Lok Sabha
 - (5) Minister, Parliamentary Affairs
- 71. Which of the following features of the Indian Constitution has been borrowed from Japan 7
 - (1) Concept of Directive Principles of State Policy
 - (2) Independence of Judiciary and Judicial Review
 - (3) Language of the Preamble -
 - (4) Law on which the Supreme Court Function >>>
 - (5) Scheme of Federation with a Strong Centre 😕

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- 72. Which is the smallest of the Parliamentary constituencies in India in terms of voter strength?
 - (1) Andaman and Nicobar Islands
 - (2) Dadra and Nagar Havell
 - (3) Daman and Diu
 - (4) Ladakh
 - (5) Lakshadweep
- 73. By which amendment of the Indian Constitution was the Anti-Defection law amended ?
 - (1) Eighty Sixth
 - (2) Eighty Seventh
 - (3) Ninety First
 - (4) Ninety Second
 - (5) Ninety Third
- 74. Match each of the following Five-Year Plans in Column – A with their main thrust areas in Column – B and select the correct answer set from the table given below.

Column - A

Column - B

(a) First

(i) Achievement of Self-reliance and

growth with stability

Column - A

Column - B

- (b) Second
- (ii) Community
 Development 3
 - Programme
- (c) Third (iii) Expansion of Basic Industries
- (d) Fourth (iv) Minimum Needs
 Programme
- (e) Fifth (v) Poverty Alleviation >
 - (vi) Rapid Industria-

Answers

X	(a) - (ii)	(b)-(vi)	(c)-(v)	(d)-(i)	(e)-(iv)
2	(a)-(i)	(b)-(iv)	(c)-(v)	(d)-(iii)	(e)-(vi)
3	(a)-(ii)	(b)-(v)	(c)-(iii)	(d)-(i)	(e)-(lv)
4	(a)-(ii)	(b)-(vi)	(c)-(iii)	(d)-(i)	(e)-(iv)
		(b)-(vi)			

- 75. Persistent high inflation combined with high unemployment and stagnant demand in a country's economy is known as:
 - (1) Boom
- 1
- (2) Depression
- V (3)
- Recession
- (4) Stagflation
- (5) Stagnation



- 76. Who is currently the Vice-Chairperson of the NITI Ayog in India?
 - (1) Bibek Debroy
 - (2) Rajiv Kumar
 - (3) Ramesh Chand
 - (4) V. K. Saraswat
 - (5) Vinod Paul
- 77. The promoter of which of the following private sector banks in India is the "Aga Khan Fund for Economic Development"?
 - (1) Bandhan Bank
 - (2) DCB Bank
 - (3) IDFC Bank
 - (4) IndusInd Bank
 - (5) RBL Bank
- 78. Loan or credit with low interest rates is known as :
 - (1) Barren money
 - (2) Cheap money
- (3) De
 - (3) Dearmoney
 - (4) Nearmoney
 - (5) Tight money
- 79. With which of the following branches of commercial activity are the terms 'bull' and 'big' associated?
- (1) Banking and Finance
- (2) External Trade

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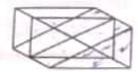
- (3) Share Market
- (4) Transportation
- (5) Warehousing
- 80. Which among the following organisations in India looks into the credit needs of the agricultural activities and rural development?
 - (1) FCI
 - (2) ICAR
 - (3) IDBI
 - (4)- NABARD
 - (5) RBI
- 81. Who among the following bear the bulk of the burden of the indirect taxes?
 - (1) Consumers
 - (2) Manufacturers
 - (3) Taxpayers
 - (4) Traders
 - (5) None of the above
- 82. Which of the following States/Union Territories of India has the lowest sex ratio as per Census 2011?
 - (1) Chandigarh
 - (2) Dadra and Nagar Haveli
 - (3) Daman and Diu
 - (4) Delhi
 - (8) Haryana

(17)

(Turn over)



83. Find the number of triangles in the following figure:



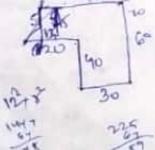
- 16 (1)
- 18 (2)
- 20 (3)
- 24 (4)
- (5)27
- 84. In an open field, Arif started from a point A and moved to east by 20 metres and then turned right by 40 metres to reach point B. Then he moved to east for 30 metres from where he turned to left by 60 metres to reach point C. Then he moved to west by 42 metres from where he turned left for 5 metres to reach the destination, D. What is the straight line distance between his starting point and the destination?



(2)12 m

(3)15 m

17 m



85. What is the angle between the hour hand and the minute hand of a clock at 40 minutes past 1 O' clock. measured anticlockwise?

(1) 135°

- (2) 150°
- (3) 170°
- 190°
- 210° (5)

January, 2018 had been a Monday. In which of the subsequent years will the New Year commence on Monday again?

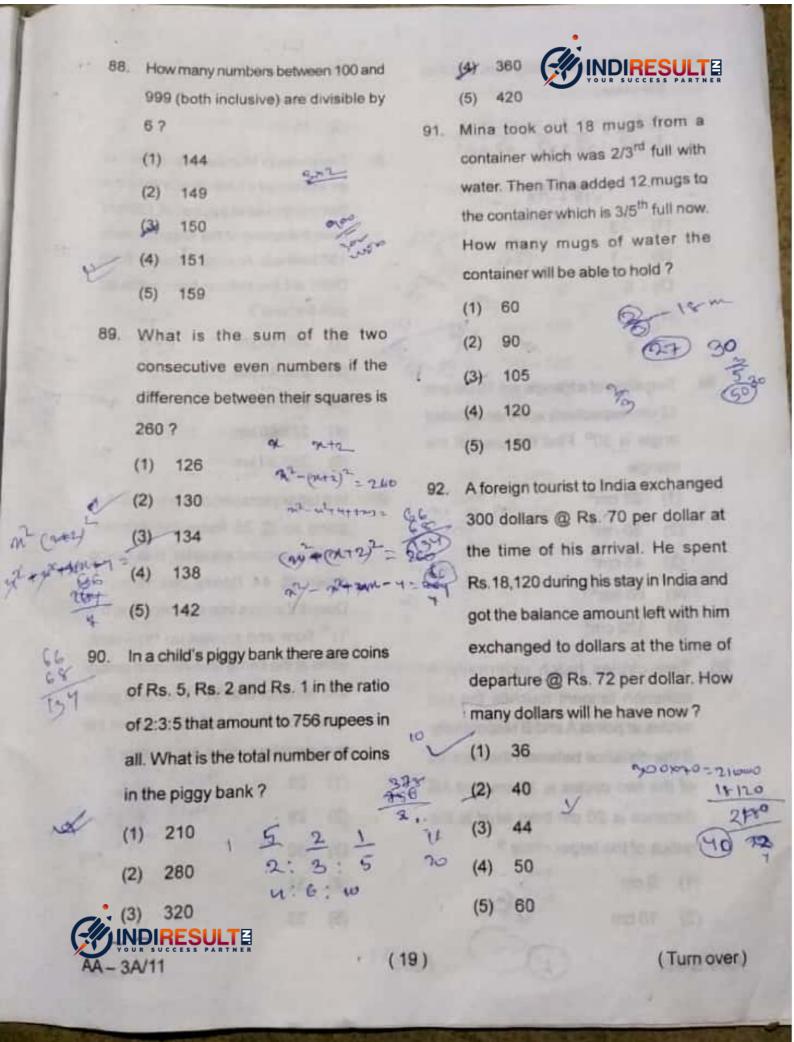
- 2021
- (2)2022
- (3) 2023
- (4) 2024
- (5) 2025

87. If in a certain coded language PHYSICAL is written as MEVPFZXI. what will be the codeword for CANDIDATE?

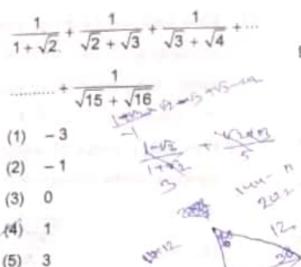
- AYLBGBYRC (1)
- **ECPFKFCVG**
- **FDQGLGDWH**
- (4) ZXKAFAXQB
 - ZXKAFBYRC (5)

Contd.

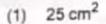
(18)



93. Simplify the following term and find the value:



Two sides of a triangle are 10 cm and 12 cm respectively and their included angle is 30°. Find the area of the triangle.



- 30 cm² (2)
- 45 cm2 (3)
- 60 cm²
- 120 cm² (5)
- Two circles touch externally. A 95. common tangent touches the two circles at points A and B respectively. If the distance between the centres of the two circles is 16 cm and AB distance is 20 cm then what is the radius of the larger circle ?
 - 9 cm



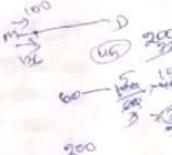
- (3) 12 cm



- (5) 15 cm
- Two trains to Mumbai leave Delhi at an interval of 45 minutes. While the first one moves at a speed of 100 km/ hour, the speed of the second one is 136 km/hour. At what distance from Delhi will the second train catch up with first one ?

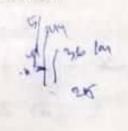
260.00 km (1)

- 262.40 km (2)
- (3) 271.33 km
- 275.00 km (4)
- 283.33 km (5)



- In a tall skyscraper, one elevator A is 97. going up @ 36 floors per minute, while a second elevator B is going down @ 44 floors per minute. Deepika enters into elevator A at the 11th floor and moves up non-stop, while at the same time Anuska enters into elevator B at 51st floor and goes down non-stop. At which floor, will the two elevators cross each other?
 - (1) 28
 - 29 (2)
 - 30 (3)
 - (4) 31
 - (5)33

(20)





98. If x = 0.4136, which of the following values is equal to the following term?

	$x + \sqrt{4x^2}$	-4x+1
(1)	-0.1728	note)
(2)	-0.2488	W. 15.
(3)	0.1728	xy (232-1)2
(4)	0.5864	n+ 2m-1
ann d		me - 1

99. The difference between the compound and simple interests, compounded annually, on a principal amount @ 4% interest for a period of two years is Rs. 8.00. What is the principal amount?

(1)	Rs. 4,600	(1+ 75)
(2)	Rs. 5,000	(11 100)
737747		

(4) Rs. 6,200



100. The following table gives the distribution of normal annual rainfall in 80 places in Odisha. What is the normal annual rainfall in the state?

nom	al annual rainf	all in the state	07
R	ainfall Class	No. of	
	(in cm)	Places	
	100 - 120	10	Poor
	120 – 140	100 16	130
	140 – 160	29	160
	160 - 180	18	120
	180 – 200	7	140
(1)	125 cm	50	٠.
(2)	133 cm		4
(3)	140 cm		1100
(4)	149 cm		hund
(5)	155 cm	1	hore
		16.	80
••••		711	

141 5 220)

2080