

NR IAS ACADEMY

THE INSTITUTE FOR IAS, IPS, IRS (ALL UPSC & TNPSC EXAMINATIONS)

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TNPSC - LAB ASSISTANT (6.5.2018) – ANSWER KEY

- Calculate the area of a sector whose radius and arc length are 6 cm and 20 cm respectively.
a. 120 cm² B) 80 cm²
C) **60 cm²✓** D) 100 cm²
- If x is 80% of y, then what percent of 2x is y?
a. 40% b. **62 1/2 %✓**
c. 66 2/3 % d. 80 1/2 %
- L.C.M. of $\frac{2}{3}, \frac{4}{9}, \frac{5}{6}, \frac{7}{12}$ is _____
a. $\frac{1}{18}$ b. $\frac{1}{36}$
c. $\frac{35}{9}$ d. $\frac{140}{3}$ ✓
- The difference between compound interest and simple interest on a sum for 2 years at 8 percent is Rs.768. The sum is _____
a. Rs. 1,00,000 b. Rs. 1,10,000
c. **Rs. 1,20,000✓** d. Rs. 1,70,000
- 5 men and 2 boys working together can do four times as much work as a man and a boy. Working capacities of a man and a boy are in the ratio:
a. 1:2 b. 1:3
c. **2:1✓** d. 3:1
- 3 men or 5 women can do a piece of work in 12 days. How long will 6 men and 5 women take to finish the work?
a. 20 b. 10
c. **4✓** d. 15
- The value of $\frac{(6+6+6) \div 6}{4+4+4+4+4}$
a. 1 b. $\frac{3}{2}$
c. $\frac{4}{13}$ ✓ d. $3\frac{6}{13}$
- If x:y = 2:1 then find $(x^2 - y^2) : x^2 + y^2$ காண்க.
a. **3:5✓** b. 5:3
c. 1:3 d. 3:1
- Simplify $99\frac{48}{49} \times 245$
a. **24495✓** b. 24899
c. 24485 d. 24895
- The principle used in lighting conductors is
a. **Corona discharge ✓**
b. Self-induction
c. Mutual induction
d. Electro magnetic induction
Ref: NR IAS ACADEMY's Typed Pg.No.86
- Relation between electric field and potential.
a. $dv = \frac{-E}{dx}$ b. $dV = \frac{-dx}{E}$
c. $E = \frac{-dV}{dx}$ ✓ d. $E = \frac{-dx}{dV}$
Ref: NR IAS ACADEMY's
- A parallel plate capacitor with air between the plates has a capacitance of 10 μF. What will be the capacitance, if the distance between the plates be reduced to half and the space between them is filled with a substance of dielectric constant 10.
a. 100 μF b. **200 μF✓**
c. 1 μF d. 400 μF
- 1 Wh (Watt hour) is equal to
a. $36 \times 10^3 J$ b. $36 \times 10^4 J$
c. **3600J✓** d. 3500J
- The resistivity range of semi conductors is ____
a. $10^{-6} - 10^{-8} \Omega m$ b. 108-1014 Ωm
c. 105-108 Ωm d. **10-2-104 Ω m✓**
Ref: NR IAS ACADEMY's Physics Volume1
Shortcut: 2 நாளை அரைகுறையா கடத்துகிறான்
- The unit of electro chemical equivalent
a) kg ms⁻¹ b) kg m⁻³
c) kg m⁻¹ d) **kg c⁻¹✓**
Ref: NR IAS ACADEMY's Physics
Handwritten material, Pg.90
- The metal having positive Thomson effect is
a) Pt b) **Ag✓**
c) Ni d) Hg
Ref: NR IAS ACADEMY's Physics Material
Pg.97
- The colour of Fe(OH)₃ colloid is
a) Yellow b) Yellow orange
c) Red d) Black
- rms value of alternating current is

- a) 0.707 I₀ b) 70.7 I₀
 c) 0.636 I₀ d) 63.6 I₀

Ref: NR IAS ACADEMY's - Physics Book Volume 1, Pg.142

19. In a acceptor circuit, the value of impedance and current
 a) Impedance minimum, current maximum
 b) Impedance maximum, current minimum
 c) Both impedance and current minimum
 d) Both impedance and current maximum
20. The frequency range of visible light in electromagnetic spectrum is
 a) $4 \times 10^{14} \text{ Hz} - 1 \times 10^{13} \text{ Hz}$
 b) $8 \times 10^{14} \text{ Hz} - 4 \times 10^{14} \text{ Hz}$
 c) $3 \times 10^{11} \text{ Hz} - 1 \times 10^9 \text{ Hz}$
 d) $3 \times 10^7 \text{ Hz} - 3 \times 10^4 \text{ Hz}$

Ref: NR IAS ACADEMY's Physics, Pg.23

21. Which are true statements:
 (I) The dark lines found in solar spectrum is called as Fraunhoffer lines
 (II) The central core of sun is called as chromosphere
 (III) Fraunhoffer lines are used identify elements present in sun's atmosphere
 a) I and II are true b) II and III are true
 c) **I and III are true** d) I, II and III are true
22. Total energy of the electron (E_n) is half of the potential energy (E_p). What will be the kinetic energy (E_k) ?
 a) $-E_n$ b) $+E_n$
 c) $-2E_n$ d) $+2E_n$
23. In Thomson experiment the beam of electron remains undeflected when passed through the electric field $E=10^5 \text{ V/m}$ and the magnetic field is $B=10^{-2} \text{ tesla}$. Calculate the velocity of the electron.
 a) 10^3 m/s b) 10^5 m/s
 c) 10^7 m/s d) 10^9 m/s
24. In Sommerfield atom model which one of the following atomic orbit is an elliptical orbit
 a) 1 s b) **2 s**
 c) 2 p d) 3 d

Ref: NR IAS ACADEMY's ... Volume2, Book, Pg.8

25. The work function of zinc is $6.8 \times 10^{-19} \text{ J}$. Which is the threshold frequency for emission of photo electrons from zinc?
 a) $1.206 \times 10^{15} \text{ Hz}$ b) **$1.026 \times 10^{15} \text{ Hz}$** ✓
 c) $1.0026 \times 10^{15} \text{ Hz}$ d) $1.026 \times 10^{14} \text{ Hz}$
26. Consider the following statement choose the correct answer from the codes given below.
 Assertion (A) : According to relativity, the mass of the body changes with velocity.
 Reason (R) : Electrons accelerated in cyclotron with very high velocity acquire increased mass.
 a) (A) alone is correct and (R) is incorrect
 b) (A) and (R) are correct and (R) is the correct

- explanation of (A)
 c) (A) and (R) are incorrect
 d) (A) and (R) are correct bur (R) is the not the correct explanation of (A)

27. If one milligram of a substance is fully converted into energy, then the energy produced is
 a) $9 \times 10^{16} \text{ J}$ b) 1 J
 c) $9 \times 10^{10} \text{ J}$ ✓ d) $3 \times 10^8 \text{ J}$
28. The half life period of N^{13} is 10.1 minutes. It's life time is
 a) 5.2 minutes b) 10.1 minutes
 c) 20.2 minutes d) **Infinity**✓
29. The energy liberated in proton-proton cycle is
 a) 26.7 eV b) **26.7 MeV**✓
 c) 14.7 MeV d) 14.7 eV
30. Arrange the following particles in the increasing order of their rest masses
 I. proton II. electron
 III. neutron IV. photon
 a) II-IV-III-I b) **IV-II-I-III**✓
 c) IV-II-III-I d) II-IV-I-III

Ref: NR IAS ACADEMY's Physics Volume 2, Pg.107

31. The following Boolean expression represents ---- gate $Y = A + \bar{A} B$
 a) AND b) NAND
 c) OR d) NOR
32. Which of the following are universal gates?
 a) NOT gate and EX-OR gate
 b) OR gate and NOT gate
 c) AND gate and OR gate
 d) NOR gate and NAND gate
33. A sinusoidal carrier wave of amplitude 10mV is modulated by an audio signal wave of amplitude 6mV what is the amplitude of Upper Side Band(USB)?
 a) 0.6 mV b) 0.3 mV
 c) 3 mV d) 6 mV
34. The Principle of fiber optical communication is ?
 a) reflection
 b) radio reflection
 c) **total internal reflection**✓
 d) transmission

Ref: NR IAS ACADEMY's Physics volume 1, Pg.75

35. Which one of the following pairs is not correctly matched regarding satellite communication?
 a) Geostationary satellite :- 36,000 Km
 b) Commercial satellite :- 6 GHz - 4GHz
 c) **First manmade satellite :- Aryabhata**✓
 d) Satellite communication :- Micro wave link repeater
36. When a current carrying conductor is placed along the direction of the magnetic field, the force acting on it is ?
 a) $F = BI l$ b) **$F = 0$** ✓

- c) $F = BI l \cos \theta$ d) $F = BI l \tan \theta$
Ref: NR IAS ACADEMY's Physics Volume 1, Pg.105
37. The ratio of Ne and He gases used in He - Ne laser is
a) 4 : 1 b) $10^6 : 1$
c) **1 : 4** ✓ d) $1 : 10^6$
38. Write the type of linkage between glucose and fructose in sucrose ?
a) $C_1 - C_1$ b) $C_1 - C_2$ ✓
c) $C_1 - C_4$ d) $C_1 - C_6$
Ref: NR IAS ACADEMY's Book Back questions Pg.342
39. Write the correct example of Trisaccharides?
a) **Raffinose** ✓ b) Galactose
c) Starch d) Sucrose
Ref: NR IAS ACADEMY's +2 Chemistry Pg.322
40. What is the order of Boiling point of amines?
a) **Secondary amine > Primary amine > Tertiary amine** ✓
b) Secondary amine < Primary amine < Tertiary amine
c) Secondary amine > Primary amine < Tertiary amine
d) Primary amine > Secondary amine > Tertiary amine
Ref: NR IAS ACADEMY's +2 Chemistry Material
41. $C_6H_5OH + (CH_3)_2SO_4 \xrightarrow{NaOH} X + Y$
X and Y are
a) Methyl alcohol + phenetole
b) Ethane + benzene
c) Anisole + ethyl hydrogen sulphate
d) **Anisole + methyl hydrogen sulphate** ✓
Ref: NR IAS ACADEMY's Shortcut: பெரும்பாலும் பிளாலை டைசை மெரித்தி ஒத்திற்கு
42. Among the following which is used an anesthetic
a) di-methyl ether b) **di-ethyl ether** ✓
c) di-phenyl ether d) anisole
Ref: NR IAS ACADEMY's Yesterday Revision
43. Which one of the following organic compound, aldol - condensation reaction does not undergo?
a) Acetaldehyde b) Acetone
c) **Benzophenone** ✓ d) Ethylalcohol
Ref: NR IAS ACADEMY's Chemistry +2 Volume 2, Pg.216
44. Which compound does not undergoes haloform reaction?
a) Ethyl alcohol b) **Methyl alcohol** ✓
c) iso-propyl alcohol d) Acetone
Ref: NR IAS ACADEMY's Chemistry Volume 2, Pg.141
45. Which one of the following is the correct order of dipole moments for three isomers of dichlorobenzene?
a) Ortho isomer < Meta isomer < Para isomer
b) Ortho isomer > Meta isomer > Para isomer
c) Para isomer < Ortho isomer < Meta isomer
d) Meta isomer > Ortho isomer > Para isomer
46. Fumaric acid and Maleic acid are
a) Optical isomer
b) Conformers
c) **Geometrical isomers** ✓
d) Ortho and para isomers
47. The catalyst used in Bergius process for the synthesis of petrol from coal is
a) $CuCl_2$ b) Cr_2O_3
c) V_2O_5 d) **Fe_2O_3** ✓
Ref: NR IAS ACADEMY's +2 Chemistry Pg.5
48. Example of Lyophobic colloid is
a) **Sulphur in water** ✓ b) Gelatin
c) Protein d) Starch
49. What type of complex reaction is, bromination of Bromobenzene?
a) Sequential reaction b) **Side reaction** ✓
c) Reversible reaction d) Chain reaction
Ref: NR IAS ACADEMY's +2 Chemistry Volume 2, Pg.20
50. The signs of ΔH and ΔS respectively, for the following reaction: $Cl_{2(g)} \rightarrow 2Cl_{(g)}$
a. -, - b. -, +
c. +, + d. +, -
51. Why steam is passed to remove away the ammonia in Haber's process
a. Standardise pressure
b. Standardise temperature
c. **Standardise equilibrium**
d. Maximum ammonia formation
52. In the reversible reaction
 $2SO_{2(g)} + O_{2(g)} \rightleftharpoons 2SO_{3(g)}$
Find the relation between K_p and K_c
a. $K_p = K_c \times RT$ b. $K_p = K_c \times (RT)^2$
c. $K_p \times RT = K_c$ d. $K_p = K_c \times (RT)^{-2}$
53. The metal having negative Thomson effect is
a. Ag b. **Hg** ✓
c. Sn d. Sb
Ref: NR IAS ACADEMY's Physics Vol material, Pg.5
Shortcut: நிக்கட்டுமா பெருக்கட்டுமா (மெர்க்குரி)
54. ${}_{92}U^{235} + {}_0n^1 \rightarrow {}_{56}Ba^{141} + {}_{36}Kr^{92} + {}_{30}n^1 + 200 \text{ Mev}$
The above reactions is a
a. **Nuclear fission reaction** ✓
b. Nuclear fusion reaction

- c. Spallation reaction
d. Equilibrium reaction
Ref: NR IAS ACADEMY's Physics volume 2, Pg.58
55. Glass is an example for
a. Gaseous state b. Liquid state
c. Solid state d. **Vitreous state**✓
Ref: NR IAS ACADEMY's Chemistry Volume 1, & +2 Book, Pg.166
56. Which is used as a power source in long mission space probes?
a. U-235 b. U-232
c. **Pu-238**✓ d. Pu-241
Ref: NR IAS ACADEMY's Chemistry Volume 1, Pg.116, Sir Dictation
57. Which one is used as fuel in Nuclear reaction in power plants?
a. ${}_{92}\text{U}^{235}$ ✓ b. ${}_{92}\text{U}^{236}$
c. ${}_{92}\text{U}^{239}$ d. ${}_{92}\text{U}^{234}$
58. Which one of the following is used in making ointment for curing skin diseases?
a. AgNO_3 b. AgBr
c. **ZnCO_3** ✓ d. AgCl
Ref: NR IAS ACADEMY's Chemistry Volume 1, Pg.47
Shortcut: ஜி கார்ல மோதி தோல் உறிஞ்சுக
59. Which is the bond length of Br_2 molecule?
a. 1.54 b. **2.28**✓
c. 0.74 d. 1.44
Ref: NR IAS ACADEMY's Chemistry Volume 1, Pg.34
60. The order of ionization energy
a. $s < p < d < f$ b. **$s > p > d > f$** ✓
c. $s > d > p > f$ d. $s < d < p < f$
Ref: NR IAS ACADEMY's Chemistry, Pg.4
61. The device based on Wheatstone's bridge is 1
a. Wattmeter b. Potentiometer
c. Bridge rectifier d. **Metre bridge**✓
Ref: NR IAS ACADEMY's Physics Volume 1, Pg.59
62. The intramolecular hydrogen bonding is present in
a. **Salicylic acid**✓ b. Water
c. M-nitrophenol d. P-nitrophenol
Ref: NR IAS ACADEMY's +2 Chemistry Volume 1, Pg.58
63. Among the following which will produce oxocations
a. Lanthanides b. **Actinides**✓
c. Noble gases d. Halogens
Ref: NR IAS ACADEMY's +2 Chemistry Volume 1, Pg.115 (Friday Class),
64. How do you observed the respiration by Ganong's respiroscope?
a. CO_2 released
b. Raise of water
c. **Raise of KOH level**✓ d. O_2 released

- Ref: NR IAS ACADEMY's +2 Botany Pg.135**
65. Which plant is used in Test tube funnel experiment?
a. Ipomea b. Ichornia
c. **Hydrilla**✓ d. Marsilia
66. Binominal of groundnut is
a. Oryza sativa
b. **Arachis hypogea**✓
c. Gossypium barbadense
d. Tectona grandis
Ref: NR IAS ACADEMY's Biology Handwritten, Pg.76
Shortcut; அரக்கன் மாதிரி கடல போடுறான்
67. Mental and physical stress relaxing drug ginseng is obtain from the plant
a) **Panax ginseng**✓
b) Chichona Officinalis
c) Papaver Somniferum
d) Ephedra Sinica
Ref: NR IAS ACADEMY's Biology Volume 1, Pg.62
68. A tissue is a
a) Single cell b) Two cells
c) **Group of cells**✓ d) Three cells
Ref: NR IAS ACADEMY's Biology Volume 1, Pg.26
69. Clover leaf model of RNA is called
a) **tRNA**✓ b) sRNA
c) mRNA d) rRNA
70. The terminal part of the chromosome is
a) Satellite b) Centromere
c) **Telomere** d) Kinetochore
Ref: NR IAS ACADEMY's Revision Class
71. The clover leaf structure of tRNA is suggested by
a) **R.W.Holley** ✓
b) Watson and crick
c) Wilkins and Franklin
d) Messelson and Stahl's
Ref: NR IAS ACADEMY's Revision Class
72. Which country is having the largest groups of tissue culture scientists in the world
a) America b) **India**✓
c) China d) Japan
Ref: NR IAS ACADEMY's +2 Botany Pg.97
73. What is the name of the book published by Carlous Linnaeus?
a) **Species Plantarum**✓
b) Genera Plantarum
c) Origin of species
d) Die Naturlichen Pflanzen Familien
Ref: NR IAS ACADEMY's +2 Botany, Pg.1
74. 'Herbarium of Indian Botanical Garden' - where is located in india?
a) Chennai b) **Kolkata**✓
c) Coimbatore d) Trichy
Ref: NR IAS ACADEMY's +2 Botany, Pg.4

75. Arrange the following in correct order:
 I. Sub class : Monochlamydeae
 II. Family : Euphorbiaceae
 III. Class : Dicotyledonae
 IV. Series : Unisexuales
 a) **III-I-IV-II**✓ b) I-II-III-IV
 c) IV-III-II-I d) II-III-I-IV
Ref: NR IAS ACADEMY's +2 Botany, Pg.16
76. Traveller's palm refers to
 a) Musa Paradisiaca
 b) Strelitzia Reginae
 c) **Ravenala Madagascariensis**✓
 d) Heliconia sp
Ref: NR IAS ACADEMY's +2 Botany, Pg.19
77. Which Amendment Act was provide 33% reservation of seats for women in Rural and Urban Local bodies
 a) **73rd and 74th**✓ b) 43rd and 44th
 c) 53rd and 54th d) 75th and 76th
Ref: NR IAS ACADEMY's Constitution Main Book
78. In the Indian constitution consists of directive principles of state policy is
 a) Article 14 to 18 b) **Article 36 to 51**✓
 c) Article 13 to 17 d) Article 16 to 20
Ref: NR IAS ACADEMY's Constitution Main Book, Pg.15
79. Assertion (A) : The Governor's report may lead to the declaration of emergency in a State.
 Reason (R) : The constitutional head of the State becomes the head of the government in the state in the event of State emergency.
 a) (A) and (R) are true and (R) is the correct explanation of (A)
 b) **(A) and (R) are true, but (R) is not the explanation of (A)**✓
 c) (A) is true, (R) is false
 d) (A) is false, (R) is true
80. Consider the following statement, choose the correct answer using codes given below:
 (i) India contributes about 60% of themica in the world.
 (ii) Major mica producing states of India are Andhra Pradesh, Jharkand, Bihar and Rajasthan
 a) (i) only correct
 b) (i) and (ii) are correct
 c) (ii) only correct
 d) both (i) and (ii) are wrong
81. The term IRRI refers to
 (i) International Rice Research Institute
 (ii) Irrigation Rural Rice Institute
 (iii) Irrigation Rice Research Integration
 (iv) Indian Rural Research Institute
 a) (i) and (ii) are correct
 b) **(i) only correct**✓
 c) (i) and (iv) are correct
- d) (iv) only correct
Ref: NR IAS ACADEMY's Geography hand-written, Pg.75
82. When was the "River Information System" was inaugurated first time in India?
 a) June 2016 b) July 2016
 c) February 2016 d) **January 2016**✓
83. Who won the gold medal for the game 25 meter Rapid Fire Pistol Men Junior event in Junior World Cup during March 2018?
 a) Mandeep Singh b) Jashpal
 c) **Anish**✓ d) Pradeep
84. In human being's fertilization of ovum occurs in which part?
 a) Corpus luteum
 b) Vaginal tube
 c) **Ampulla of uterine tube**✓
 d) Cervix
Ref: NR IAS ACADEMY's +2 Zoology Pg.96
85. Statement I: In the cerebral cortex the left hemisphere is connected to the sensory receptors of right half of the body.
 Statement II : In the cerebral cortex the right hemisphere is connected to the sensory receptors of left half of the body.
 a) I is correct II is incorrect
 b) **I and II are correct**✓
 c) I is incorrect II is correct
 d) I and II are incorrect
86. The another name of Vitamin 'D' is
 a) Niacin b) Pyridoxine
 c) **Calciferol**✓ d) Ergosterol
Ref: NR IAS ACADEMY's Shortcut: Call பன்னு D
87. Water loss happen through expiration is
 a) **400 ml**✓ b) 600 ml
 c) 1400 ml d) 100 ml
Ref: NR IAS ACADEMY's Dictated class
88. Myasthenia Gravis is a
 a) Vitamin deficiency disease
 b) Infectious disease
 c) Kidney disorder
 d) **Autoimmune disease**✓
Ref: NR IAS ACADEMY's Revision class
89. What is the first antibiotic discovered in the world?
 a) Ampicillin b) Tetracyclin
 c) **Penicillin**✓ d) Streptomycin
Ref: NR IAS ACADEMY's Biology hand-written Volume 3, Pg.20
90. Pain during urination and yellow discharge from the urethra of male are the symptoms of
 a) Srpilis b) Plague
 c) **Gonorrhoea**✓ d) Pneumonia
Ref: NR IAS ACADEMY's Zoology book Pg, 109
91. Major Histocompatibility Complex (MHC) genes

of mouse is located in which chromosome?

- a) 7th chromosome b) 4th chromosome
c) **6th chromosome** ✓ d) 5th chromosome

Zoology Book back question, pg.132 (also revision class, notes, model test)

92. Assertion I: The disease Huntington's chorea is characterized by uncontrolled jerking of the body due to involuntary twitching of voluntary muscles.

Assertion II: Huntington's chorea is caused by autosomal recessive gene in human.

- a) I and II are incorrect
b) **I is correct II is incorrect** ✓
c) I and II are correct
d) I is incorrect II is correct

Ref: NR IAS ACADEMY's Song cut

93. In Karyotyping process chemical colchicine is used to stop mitosis at which stage?

- a) Prophase b) **Metaphase** ✓
c) Anaphase d) Telophase

Ref: NR IAS ACADEMY's Zoology Book, Pg.143

94. What method is used to dispose large amount of water carrying relatively small amount of chemical wastes?

- a) **Surface impoundments** ✓
b) Landfills
c) Incineration
d) Bio-remediation

Ref: NR IAS ACADEMY's (Model test Question No.23) Zoology Book, pg.38

95. What is the incubation period of fertilized hen's egg?

- a) 16-18 days b) 20-21 days
c) 24-25 days d) **21-22 days** ✓

Ref: NR IAS ACADEMY's Zoology Book, Pg.54

96. Milk of Jersey cow has a characteristic yellow colour due to the high content of which of the following?

- a) Haemoglobin b) Melanin
c) **Carotene** ✓ d) Xanthophyll

97. During brooding of chicken, how much of floor space has to be provided per chicken in poultry house?

- a) **500 sq.cm** ✓ b) 100 sq.cm
c) 200 sq.cm d) 400 sq.cm

Ref: NR IAS ACADEMY's +2 Zoology, Pg.208

98. Match it.

- | | |
|-----------------------|-----------------------------------|
| A. Basic goods | 1. Cycle, refrigerators |
| B. Capital goods | 2. Plywood, pipe |
| C. Consumer goods | 3. Fertilizers and chemicals |
| D. Intermediate goods | 4. Machineries, engineering goods |

ABCD

- a) 4 3 2 1

- b) 3 2 1 4
c) 2 3 1 4
d) **3 4 1 2** ✓

99. Match.

- | | |
|--------------------------|------------------------------|
| A. First Five Year Plan | 1. Equity and social justice |
| B. Second Five Year Plan | 2. Removal of property |
| C. Fifth Five Year Plan | 3. Rapid Industrialization |
| D. Tenth Five Year Plan | 4. Agriculture |

- A B C D
a) 4 3 1 2
b) 3 4 1 2
c) **4 3 2 1** ✓
d) 2 3 4 1

Ref: NR IAS ACADEMY's Economics Volume 1, Pg.47

100. In 1934 who was elected the Congress President at Bombay?

- a) Jawaharlal Nehru
b) Subhas Chandra Bose
c) **Rajendra Prasad** ✓
d) Vallabhbhai Patel

Ref: NR IAS ACADEMY's Modern India, Pg.66

101. How many members signed the Indian Constitution?

- a) 274 b) **284** ✓
c) 294 d) 264

Ref: NR IAS ACADEMY's Indian Constitution, Pg.1

102. All India Women conference was organized at

- a) **Pune** ✓ b) Bombay
c) Thane d) Satara

Ref: NR IAS ACADEMY's 10th History, Pg.138

Shortcut: பெண்கள் எல்லாம் பூணை மாதிரி மாநாடு போராங்க

103. The LCM of 2 numbers is 2079 and their HCF is 27.

If one of the number is 189 then find the other number is

- a) 298 b) **297** ✓
c) 397 d) 498

104. If $2A = 3B = 4C$. Then find A : B : C

- a) 2 : 3 : 4 b) 4 : 3 : 2
c) **6 : 4 : 3** ✓ d) 20 : 15 : 2

105. A student multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$.

What is the percentage error in that calculation?

- a) 34% b) 44%
c) 54% d) **64%** ✓

106. If the diameter and height of a right circular cone are respectively 12 cm and 8cm. Then its slant height is

- a. **10 cm**✓ b. 20 cm
c. 30 cm d. 96 cm
107. The perimeter of a rectangle having area equal to 144 (cm)^2 and sides in the ratio 4:9 is
a. **52 cm**✓ b. 56 cm
c. 60 cm d. 64 cm
108. According to the Boolean Equation, the expression $A + \overline{A}$ is equal to
a. A b. \overline{A}
c. 0 d. **1**✓
109. If the base of a cone is not circular then, it is called
a. Circular cone
b. **oblique cone**✓
c. right circular cone
d. oblique and circular cone
110. The arc length of a sector is 66 cm and the central angle is 30° . Find the Radius
a. 166 cm b. 140 cm
c. 122 cm d. **126 cm**.✓

111. If $a + b = \frac{ab}{a+b}$, find the value of $3^{3*(3-1)}$

- a. **-3**✓ b. -1.5
c. -1 d. $\frac{2}{3}$
112. The mole ratio of SO_2 and O_2 in contact process
a. 1 : 2 b. **2 : 1**✓
c. 3 : 1 d. 1 : 3

Ref: NR IAS ACADEMY's Chemistry Volume 1, Pg.195

113. A and B together can do a piece of work in 8 days. But A alone can do it in 12 days. How many days would B alone take to do the same work?
a. **24 days**✓ b. 25 days
c. 23 days d. 22 days
114. Which of the statements are correct or Incorrect?
I. Electrostatic shielding is the process of isolating a certain region of space from external field
II. It is based on the fact that electric field inside a conductor is infinity.
a. I, II correct
b. I, II incorrect
c. I incorrect II correct
d. **I correct II incorrect**

Ref: NR IAS ACADEMY's Physics Volume 2, Pg.91

115. State which of the following statements are true
I. Electric dipole kept in a uniform electric field will experience a torque
II. Electric field is equal to negative gradient of potential
III. Electric field is a scalar quantity
a. **I, II are correct**✓
b. II, III are correct
c. III, I are correct
d. I, II, III are correct

Ref: NR IAS ACADEMY's (Shortcut: செறியான வெட்டி பய)

116. In the case of insulators, as the temperature decreases, resistance
a. Decreases b. **Increases**✓
c. Remains constant d. Becomes zero
117. A toaster operating at 240 V has a resistance of 120Ω , the power is
a. 400W b. 2W
c. **480W**✓ d. 240W

Ref: NR IAS ACADEMY's Physics Question Bank, Q.No.2.4

118. The period of rotation of a charged particle in a uniform magnetic field does not depend upon
a. Charge b. Magnetic induction
c. Velocity d. Mass
119. Which of the following statements are true?
Current sensitivity of a galvanometer can be increased by
I. Increasing the number of turns in the coil
II. Increasing the magnetic induction
III. Decreasing the area of the coil
IV. Increasing the couple per unit twist of the suspension wire
a. **I, II**✓ b. II, III
c. III, IV d. I, IV

Ref: NR IAS ACADEMY's Physics Volume 1, 106

120. In a coil of radius 10 cm having 100 turns carrying a current of I A, the magnitude of the magnetic field at the centre of the coil is
a) $2 \pi \times 10^{-4} \text{ T}$ b) $4 \pi \times 10^{-4} \text{ T}$
c) $3 \pi \times 10^{-6} \text{ T}$ d) $5 \pi \times 10^{-6} \text{ T}$
121. In a step up transformer, the transformer ratio k is
a) $k < 1$ b) $k = 1$
c) **$k > 1$** ✓ d) $k = 0$

Ref: NR IAS ACADEMY's Physics Typed material, Pg.27

122. Pick out the wrong statement. In transformer energy losses
a) Hysteresis loss can be minimised by using silicon steel
b) **copper loss can be minimised by using thin wires**✓
c) Eddy current loss can be minimised by stelloy
d) Copper loss can be minimised by using thick wires.

Ref: NR IAS ACADEMY's Physics Volume 2, Pg.28

123. In an ac circuit with a capacitor only, the current will be
a) Leading voltage by π phase difference
b) Leading voltage by $\pi/2$ phase difference
c) Lagging behind the voltage by π phase difference

d) Lagging behind the voltage by $\pi/2$ phase difference ✓

Ref: NR IAS ACADEMY's Physics Volume 1, Pg.150

124. Which of the following rays are travelling with velocity of light?

- I) α - rays II) β - rays
III) γ - rays IV) X - rays
a) I and II b) I and III
c) **III and IV** ✓ d) I and IV

Ref: NR IAS ACADEMY's Physics volume 2, Pg.83

125. If $\lambda_x = \lambda_{uv} = \lambda_m$ are wavelengths of X - rays and microwaves respectively then which of the following is correct?

- a) $\lambda_x = \lambda_{uv} = \lambda_m$
b) $\lambda_x > \lambda_{uv} > \lambda_m$
c) $\lambda_x < \lambda_{uv} < \lambda_m$ ✓
d) $\lambda_{uv} > \lambda_m = \lambda_x$

Ref: NR IAS ACADEMY's Physics Volume 2, Pg.23

126. Atomic spectrum should be

- a) **Pure line spectrum** ✓
b) Emission band spectrum
c) Absorption line spectrum
d) Absorption band spectrum

Ref: NR IAS ACADEMY's Physics Book Back question, Volume 2, Pg.7

127. The wave number for Balmer series at long wavelength limit

- a) R b) R/4
c) $3R/24$ d) $5R/36$

128. Which of the following statements are true?

- I) The cathode rays are a stream of electrons
II) The elliptical orbits of electron in the atom were proposed by de Broglie
III) Canal rays can produce fluorescence
a) I and II
b) II and III
c) I, II and III
d) **I and III** ✓

Ref: NR IAS ACADEMY's Physics Volume 2, P.g102 (Yesterday Revision class)

129. Which of the following statements are true?

- I) Photoelectric effect can be explained on the basis of quantum theory of light
II) The Photoelectric effect is instantaneous process
III) To produce large number of photoelectrons the cathode of photosensitive material is coated with high work function material.

- a) I, II b) II, III
c) I, III d) I, II, III

130. The number of frames of references in the universe is

- a) Zero b) 10^5
c) Infinity d) 9 billion

131. Which of the following statements are FALSE

- I) Nuclear reactor is based on the principle of uncontrolled fission reaction
II) Atom bomb is based on the principle of uncontrolled fusion reaction
III) Hydrogen bomb is an example for nuclear fusion reaction
a) **I and II** ✓ b) II and III
c) I and III d) I, II and III

Ref: NR IAS ACADEMY's Physics Volume 2, Pg.13

132. In α - decay, the change that occurs in the daughter element is

- a) atomic number decreases by one
b) mass number increases by four
c) proton number remains the same
d) **neutron number decreases by two**

133. The equation showing relation between currents in a transistor circuit is

- a) $I_E = I_B + I_C$ ✓ b) $I_C = I_B + I_E$
c) $I_B = I_E + I_C$ d) $I_E = I_B + I_C$

134. Which of the following diodes is operated in a reverse bias mode?

- a) **P - N junction** ✓ b) Zener
c) Tunnel d) LED

135. Since the input impedance of an ideal operational amplifier is infinite

- a) **its input current is zero**
b) its output resistance is high
c) its output voltage becomes independent of load resistance
d) it become a current controlled device

136. In super heterodyne FM receiver if the incoming frequency is 150×10^3 KHz what will be the frequency produced by local oscillator?

- a) 160.7 Hz b) 160.7 MHz
c) 160.7 KHz d) 167 KHz

137. In a broadcasting studio a 1000 KHz carrier is modulated by an audio signal of frequency range 100- 5000 Hz what are the maximum and minimum frequencies of USB and LSB?

- a) 1005 Hz, 1000.1 Hz and 999.9 Hz, 995 Hz
b) 10.05 MHz, 10.01 MHz and 9.999 MHz, 9.95 MHz
c) 1005 KHz, 1000.1KHz and 999.9 KHz, 995 KHz
d) 1.005 KHz, 1.0001 KHz and 0.9999 KHz, 0.995KHz

138. The compounds sodium benzoate and potassium metabisulphate are used as

- a) artificial sweetening agent
b) **food preservative** ✓
c) antibiotic
d) dyes

Ref: NR IAS ACADEMY's Physics Typed 38

139. Which of the following act as the propellents for rocket motors used in space vehicles?

- a) Liquid O_2 b) **Liquid H_2** ✓
c) Liquid N_2 d) Liquid propylene

Ref: NR IAS ACADEMY's Chemistry Chapter 22, Pg.351

140. What is the name of the solution containing equal molecules of D (+) glucose and D (-) glucose?

- a) grape sugar
b) cane sugar
c) **invert sugar** ✓
d) non - reducing sugar

141. What product is formed after 2 moles of aniline treated with carbondisulphide?

- a) **S - diphenyl thio urea** ✓
b) S - phenyl thio urea
c) S - triphyhyl thio urea
d) S - diphenyl urea

Ref: NR IAS ACADEMY's Chemistry volume 2, pg.313

142. What one of the following compound react with Grignard reagent to form carboxylic acid?

- a) Formaldehyde
b) Acetaldehyde
c) Acetone
d) **Carbon dioxide** ✓

Ref: NR IAS ACADEMY's Chemistry Volume 2, Pg.253

143. Which one of the following compound is in winter-green oil?

- a) Methyl acetate
b) Methyl formate
c) **Methyl salicylate** ✓
d) Acetyl salicylic acid

Ref: NR IAS ACADEMY's Chemistry material Pg.26

144. Phenol react with formaldehyde gives

- a) **Bakelite** ✓
b) Malechite green
c) Malonic acid
d) Tincture benzoin

Ref: NR IAS ACADEMY's Yesterday revision

145. Which one of the following does not have α - hydrogen

- a) CH_3CH_2OH
b) $CH_3 - \underset{\substack{| \\ CH_3}}{CH} - OH$
c) $CH_3 - \underset{\substack{| \\ CH_3}}{CH} - CH_2OH$
d) $CH_3 - \underset{\substack{| \\ CH_3}}{C} - CH_3$ ✓

146. Oxidation of glycerol with bismuth nitrate. which gives

- a) Glyceric acid
b) Glyceraldehyde
c) **Mesoixalic acid** ✓
d) Oxalic acid

147. Which one of the following reaction is not feasible?

- a) $Zn + H_2SO_4 \rightarrow ZnSO_4 + H_2$
b) $Cu^{2+} + H_2 \rightarrow Cu + 2H^+$
c) $Cu + H_2SO_4 \rightarrow CuSO_4 + H_2$
d) $Zn + CuSO_4 \rightarrow ZnSO_4 + Cu$

148. Ionic product of water at 298 K is

- a) $K_w = 1 \times 10^7 \text{ mol}^2 \text{ dm}^{-6}$
b) $K_w = 1 \times 10^{-7} \text{ mol}^2 \text{ dm}^{-6}$
c) $K_w = 1 \times 10^{14} \text{ mol}^2 \text{ dm}^{-6}$
d) $K_w = 1 \times 10^{-14} \text{ mol}^2 \text{ dm}^{-6}$

149. Tyndall effect is _____ kind property of colloids.

- a) Kinetic property
b) Electrical property
c) Chemical property
d) **Optical property** ✓

Ref: NR IAS ACADEMY's +2 Chemistry Pg.9

150. Unit of rate constant of a reaction can be calculated using the formula

- a) $\text{Mol}^{(1-n)} \text{ lit}^{(n-1)} \text{ Sec}^{-2}$
b) $\text{lit}^{(1-n)} \text{ Mol}^{(n-1)} \text{ Sec}^{-1}$
c) $\text{Mol}^{(1-n)} \text{ lit}^{(n-1)} \text{ Sec}^2$
d) $\text{lit}^{(n-1)} \text{ mol}^{(1-n)} \text{ Sec}^{-1}$

151. Which one of the following statement is correct?

- a) Entropy of the Universe remains constant, energy of the universe remains constant
b) Entropy of the Universe tends to a maximum, energy of the universe tends to a maximum
c) **Entropy of the Universe tends to a maximum, energy of the universe remains constant** ✓
d) Energy and entropy of the univers tends to a minimum

Ref: NR IAS ACADEMY's +2 Chemistry Pg.174

152. An example of a complex compound having coordination number 4

- a) $K_4[Fe(CN)_6]$ b) $[CO(en)_3]Cl_3$
c) $[Fe(H_2O)_6]Cl_3$ d) **$[Cu(NH_3)_4]Cl_2$** ✓

Ref: NR IAS ACADEMY's Question bank 4th Pg.Q.No.2

153. Which of the following statement is correct with respect to Central metal atom?

- a) accepts electron
b) **accepts the pair of electron** ✓
c) donate electron
d) donate pair of electron

Ref: NR IAS ACADEMY's Friday class

154. Pick the complex used as anti-tumour drug.

- a) **cis-[Pt(NH₃)₂Cl₂]**✓
b) trans-[Pt(NH₃)₂Cl₂]
c) cis-[Pd(NH₃)₂(NO₂)₂]
d) trans-[Pd(NH₃)₂(NO₂)₂]

155. Which one of the following is example of metal deficiency defect?

- a) NaCl
b) AgCl
c) CsCl
d) **FeS**✓

Ref: NR IAS ACADEMY's Revision Test, Q.No.89

156. What is General electronic configuration of the transition elements?

- a) (n-1)d⁰⁻¹⁰ns¹⁻²
b) **(n-1)d¹⁻¹⁰ns¹⁻²**✓
c) (n-1)d¹⁻⁵ns²
d) (n-1)d⁰ns¹

Ref: NR IAS ACADEMY's Chemistry Book back, Pg.2

157. Choose the wrong statement regarding K₂Cr₂O₇

- a) It is a powerful oxidizing agent
b) It is used in tanning industry
c) It is soluble in water
d) **It reduces ferric sulphate to ferrous sulphate**✓

Ref: NR IAS ACADEMY's Chemistry book back, Pg.108

158. Match the following:

- | Alloy | Composition |
|--------------|-------------------------------|
| A) Bronze | 1. Cu = 87, Sn = 10, Zn = 3 |
| B) Brass | 2. Cu = 75 - 90, Sn = 10 - 25 |
| C) Nichrome | 3. Cu = 60 - 80, Zn = 20 - 40 |
| D) Gun metal | 4. Cr = 15, Ni = 60, Fe = 25 |

A B C D

- a. **2 3 4 1**✓
b. 3 1 4 2
c. 4 2 1 3
d. 1 2 3 4

Ref: NR IAS ACADEMY's Chemistry Pg.46

Shortcut: வெ.க.டி.லே.து, பிகாது

159. The shape of PCl₅ is

- a) Pyramidal
b) **Trigonal bipyramidal**✓
c) Linear
d) Tetrahedral

Ref: NR IAS ACADEMY's Chemistry Book back questions, Revision

160. What is the shape of p-orbitals?

- a) Spherical
b) Clover leaf shape
c) **Dumb-bell**✓
d) (B) or (C)

Ref: NR IAS ACADEMY's Shortcut:

பீத் திக் கிறது டம்பட் டா அடிக் கிறதும் ஒன்னுதான், Physics, Pg.98

161. Assertion (A): Inter molecular hydrogen bonding is

formed between the two molecules of the same or different compounds.

Reason (R): Hydrogen bonding is possible when a six or five membered rings can be formed.

a. **Both (A) and (R) are true and (R) is the correct explanation of (A)**✓

b. Both (A) and (R) are true and (R) is not the correct explanation of (A)

c. (A) is true but (R) is false

d. (A) is false, but (R) is true.

Ref: NR IAS ACADEMY's Chemistry Volume1, Pg.27

162. Some of the light sensitive seeds can germinate by the treatment of hormone is

- a. Auxin
b. Ethylene
c. **Gibberellin**✓
d. Gytokinin

Ref: NR IAS ACADEMY's Biology Volume1, Pg.55

163. The gas evolved during respiration is

- a. Oxygen
b. Hydrogen
c. Nitrogen
d. **Carbondioxide**✓

Ref: NR IAS ACADEMY's Biology Volume1, Pg.53

164. Which part of the plant is most important in photosynthesis?

- a. root
b. stem
c. **leaves**✓
d. flowers

Ref: NR IAS ACADEMY's Biology Volume1, Pg.2

165. Clonal selection is from

- a. Sexual reproduction
b. **Vegetative propagation**✓
c. External characters of plant
d. Based on gene structure

Ref: NR IAS ACADEMY's Biology Volume1, Pg.57

166. Employing genetic engineering techniques, Potrykus of Switzerland and Peter Beyer of Germany transferred genes of Carotene from

- a. Oryza Sativa
b. Avena Sativa
c. Chrysanthimum
d. **Daffodils**✓

Ref: NR IAS ACADEMY's Biology Volume1, Pg.61

167. Match the following

Name of the organism	Haploid set of chromosome
----------------------	---------------------------

- | | |
|-------------------------|-------|
| a. Arabidopsis thaliana | 1. 7 |
| b. Paddy | 2. 5 |
| c. Garden Pea | 3. 40 |
| d. Sugar cane | 4. 12 |

a b c d

A. **2 4 1 3**✓

B. 1 2 3 4

C. 3 2 4 1

D. 4 1 2 3

Ref: NR IAS ACADEMY's Biology Yesterday revision class

Shortcut: அஞ்சலிக்கு தாலிகட்டியாச்சு

Shortcut: பன்னிரெண்டாவது படிக்கும் போது அரிசி சோறு தான் சாப்பிட்டேன்.

Shortcut: ஏழு நாளும் தோட்டத்துக்கு போறேன்

Shortcut: 40 வயசுல சுகர் வந்துரும்

168. The function of cytokinin is increase
- Cell elongation
 - Fruit initiation
 - Cell division** ✓
 - Differentiation

Ref: NR IAS ACADEMY's Biology Volume1, Pg.63

169. A weed plant has been engineered to produced a biodegradable plastics. (Oikt hydroxy butyrate or PHB)

- Mose-eared cress** ✓
- Zea Mays
- Oryza Sativa
- Avena Sativa

Ref: NR IAS ACADEMY's Biology volume 1, Pg.25

170. C_4 pathway is takes place in
- leaf of mesophyll and bundle sheath cells** ✓
 - leaf of mesophyll cell
 - leaf of bundle sheath cell
 - all part of leaf

Ref: NR IAS ACADEMY's Biology Volume 1, Pg.70

171. In inflorescence in Ravenala Madagascariensis is _
- Compound Cyme** ✓
 - Compound raceme
 - Branched
 - Simple raceme

Ref: NR IAS ACADEMY's +2 Botany, Pg.29

Shortcut: இராவணன் கூட்டுச் சட்னி தான் சாப்பிடுவான்.

172. The Osteoscleroids are seen in _____
- Seed coat of crotolaria
 - Seed coat of Pigum** ✓
 - Pulp of Pyrus
 - Petioles of Banana

Ref: NR IAS ACADEMY's Biology Volume1, Pg.31

173. Which is called as libriform fibres?
- Xylem fibres** ✓
 - Pholem fibres
 - Sclerenchyma fibres
 - Xylem parenchyma

Ref: NR IAS ACADEMY's Biology volume 1, Pg.33

174. This is a Dead Tissue _____
- Parenchyma
 - Collenchyma
 - Sclerenchyma** ✓
 - Cholorenchyma

Ref: NR IAS ACADEMY's Biology volume 1, Pg.31

175. The theory of Separation of Powers was initiated by
- Blackstone
 - Madison
 - Lock
 - Montesquieu** ✓

Ref: NR IAS ACADEMY's History volume 2, Pg.13

176. What is the name of the scheme for socio-economic development and empowerment of women through self help groups?
- Janani Suraksha
 - Swayam Sidha** ✓
 - Ganga Kalyan
 - Sarva Shiksha Abhiyan

Ref: NR IAS ACADEMY's Civics and Economics Book back questions

177. The atmosphere is mainly heated by which one of the following?
- Direct rays of the Sun
 - Reflected solar radiation
 - Long wave terrestrial radiation
 - Burning of organic material** ✓

178. Indian Space Research Organization (ISRO) successfully launches an earth observation satellite CARTOSAT-2 during the year.
- August 2016
 - June 2016** ✓
 - October 2016
 - July 2016

179. IMCC refers to _____
- Indian Medicine Common Council
 - Indian Metro Central Council
 - Indian Medicine Central Council
 - Indian Medicine Central Community

180. World Tuberculosis Day observed every year during which day?
- March 24** ✓
 - March 25
 - February 24
 - March 26

181. Statement I: In Myopia, light is focused in front of the retina.

Statement II: Myopia can be corrected by placing a convex lens in front of the eye.

- I and II are correct
- I is incorrect II is correct
- I and II are incorrect
- I is correct II is incorrect** ✓

Ref: NR IAS ACADEMY's Biology volume 2, Pg.64

182. Each gram of carbohydrate is capable of yielding energy equivalent of _____
- 9.3 Calories
 - 4.1 Calories** ✓
 - 8.2 Calories
 - 7.1 Calories

Ref: NR IAS ACADEMY's Zoology book, pg.2

183. Match the following :
- | | |
|---------------|-------------------------|
| a. Cholera | 1. Yersinia pestis |
| b. Plague | 2. Neisseria gonorrhoea |
| c. Syphilis | 3. Vibrio cholera |
| d. Gonorrhoea | 4. Treponema pallidum |
- a b c d
A. 1 2 3 4

- B. 3 4 1 2
 C. 4 3 2 1
 D. 3 1 4 2✓

Ref: NR IAS ACADEMY's Revision class

184. Which one of the following is a protozoan disease?

- a. African sleeping sickness ✓
 b. Measles
 c. Cholera
 d. Typhoid fever

Ref: NR IAS ACADEMY's Biology, Question bank 242 (Yesterday revision)

185. B Lymphocytes mature in _____

- a. Bone marrow ✓ b. Thymus
 c. Heart d. Liver

Ref: NR IAS ACADEMY's Saturday class

186. The tissue of the original donor is grafted back into the same donor is _____

- a. Xenograft b. Allograft
 c. Autograft ✓ d. Isograft

Ref: NR IAS ACADEMY's Zoology book, pg.132

187. What is the name of mobile genetic elements?

- a. Barr body b. Plasmids
 c. Mitochondria d. Transposons ✓

188. What chemical is used in solar cells?

- a. Calcium b. Cadmium ✓
 c. Potassium d. Sodium

Ref: NR IAS ACADEMY's Revision class

189. Nitrous oxide traps how many times more than carbon dioxide?

- a. 20 times b. 300 times ✓
 c. 500 times d. 50 times

Ref: NR IAS ACADEMY's Zoology book, Pg.165 (Revision class

190. Heat of combustion of Hydrogen per unit weight is how many times more than that of hydrocarbon fuel?

- a. 2.5 times ✓ b. 3.5 times
 c. 4.5 times d. 1.5 times

Ref: NR IAS ACADEMY's zoology school book, Pg.182

191. A book 'Genetics and the origin of species' was written by _____

- a. Th. Dobzhansky ✓ b. G.L. Stebbins
 c. Lamarck d. Darwin

Ref: NR IAS ACADEMY's Yesterday revision class

192. The scientific name of sea bass _____

- a. Artemia Salina b. Lates Calcarifer ✓
 c. Tilapia Mossambica d. Labeo Rohita

Ref: NR IAS ACADEMY's +2 Zoology, Pg.206

193. Which among the following exhibits buccal incubation?

- a. Tilapia ✓ b. Catla catla
 c. Labeo Rohita d. Mrigal

Ref: NR IAS ACADEMY's +2 Zoology, Pg.210

194. When was Integrated Rural Development Programme (IRDP) extended to all the blocks of

the country ?

- a. 1978 ✓ b. 1980
 c. 2002 d. 2000

Ref: NR IAS ACADEMY's Indian constitution, Pg.60

195. Among these which is not the function of commercial bank _____

- a. Accepting the deposits
 b. Advancing of loans
 c. Banker agent and advisor to the government
 d. Creation of money or credit ✓

196. On the eve of India Independence there were nearly _____ princely states in India.

- a. 562 b. 565 ✓
 c. 567 d. 568

197. Match the following:

- | | |
|----------------|------------------------------|
| a. Colposcopy | 1. Joints such as knee |
| b. Gastroscopy | 2. colon and large intestine |
| c. Arthroscopy | 3. Vagina and Cervix |
| d. Colonoscopy | 4. Stomach, intestine |
- | | | | | |
|---|---|---|---|-----|
| | a | b | c | d |
| A | 3 | 4 | 1 | 2 ✓ |
| B | 1 | 2 | 3 | 4 |
| C | 4 | 3 | 2 | 2 |
| D | 3 | 4 | 2 | 2 |

Ref: NR IAS ACADEMY's Yesterday Revision

198. First and last Indian Governor general of India is _____

- a. Lord Mount Batten b. Nehru
 c. Rajagopalachari ✓ d. Kamaraj

199. Pick out the wrong statement about Raja Ram Mohan Roy.

- a. Raja Ram Mohan Roy established the Brahma Samaj at Calcutta in 1828
 b. He himself adopted a Christian boy ✓
 c. Ram Mohan Roy started the first Bengali weekly Samvad Kaumdi
 d. Ram Mohan died in Bristol in England in 1833.

200. The Kalabhras uprooted the Tamil Kingdoms in the second phase century.

- a. 2nd Century A.D - 4th Century A.D
 b. 3rd Century A.D - 6th Century A.D ✓
 c. 2nd Century A.D - 5th Century A.D
 d. 2nd Century A.D - 6th Century A.D