

NR IAS ACADEMY

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

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SI - Open Quota (23.5.2015) – Answer Key

PART - A General Knowledge

- World Trade Organisation was started in
a. 1996 b. **1995 ✓**
c. 1997 d. 1994
Ref: NR IAS ACADEMY's Indian Economy One Word, Pg.14
- The global water use percent is accounted for by irrigation.
a. 60 b. 80
c. 70 d. 50
- is the second largest country in Asia.
a. India b. **China ✓**
c. Russia d. Pakistan
Ref: NR IAS ACADEMY's India Tamilnadu GK
- lake the biggest lake in India is located towards the south of the Mahanadi River Delta.
a. **Chilka ✓** b. Kolleru
c. Pulicat d. Sambhar
Ref: NR IAS ACADEMY's Geography Book
- The discovery of made a significant change in the attitude of humans.
a. Copper b. Iron
c. Gold d. Fire
Ref: NR IAS ACADEMY's
- Consumer Surplus is
a. **Potential Price - Actual Price ✓**
b. $Mv_n = TV_n - TV_{n-1}$
c. Demand = Supply
d. None
Ref: NR IAS ACADEMY's +2 Economics English medium Pg.62
- The period of David Ricardo
a. 1723-1790 b. **1772 - 1823 ✓**
c. 1766-1834 d. 1883-1964
Ref: NR IAS ACADEMY's +1 Economics
- Industries which are engaged in the conversion of Raw materials into finished products?
a. Construction Industries
b. Genetic Industries
c. **Manufacturing Industries ✓**
d. Extractive Industries
Ref: NR IAS ACADEMY's 6to 10 Civics & Economics, Pg.35
- When goods are imported for the purpose of export it is called as
a. Foreign Trade b. Home Trade
c. **Entrepot Trade ✓** d. Trade
Ref: NR IAS ACADEMY's
- The first railway line in India was opened to traffic between
a. Mumbai - Chennai
b. Chennai - Kolkata
c. **Mumbai - Thane ✓**
d. Delhi - Chennai
Ref: NR IAS ACADEMY's Modern India Pg.49
- Which one of the following is the author of the book 'The Republic'?
a. Bodi b. Bryce
c. Montesquieu d. **Plato ✓**
Ref: NR IAS ACADEMY's Books & Authors
- The office of the District Collector was created first by!
a. Lord Curzon b. Lord Rippon
c. **Warren Hastings ✓**
d. Lord Irawin
Ref: NR IAS ACADEMY's Modern India Pg.46
- Recognised official languages of India
a. 25 b. 23
c. **22 ✓** d. 27
Ref: NR IAS ACADEMY's Constitution Pg.93
- Which one of the following followed by the Presidential form of government?
a. **America ✓** b. England
c. India d. France
Ref: NR IAS ACADEMY's
- Which of the following is not an International Body?
a. **SAARC** b. UNO
c. IMF d. IHRC
Ref: NR IAS ACADEMY's Important GK Volume 1, Pg.5
- கண்ணதாசன் எழுதிய நூல்களுள் ஒன்று
a. நிலவப்பு b. **சண்டமாருதம் ✓**
c. சூரியகாந்தி d. ஒளிப்பறவை
Ref: NR IAS ACADEMY's +1 Tamil Book Material, Pg.41
- 'போற்றாரைப் பொறுத்தல்' என்பது
a. **பொறை ✓** b. நிறை
c. குறை d. முறை
Ref: NR IAS ACADEMY's 10th Tamil, Pg.202
- கரிகாலன் மகள்
a. அங்கவை b. சங்கவை
c. **ஆதிமந்தி ✓** d. வெள்ளிவீதியார்
Ref: NR IAS ACADEMY's +1 Tamil, Pg.8
- Choose the correct option that would complete the sentence.
Each child a gift.
a. **receives ✓** b. has receives
c. receive d. Will be receive
Ref: NR IAS ACADEMY's
- Choose the correct superlative form of the given adjective - 'wealthy'
a. Wealthier b. **Wealthiest ✓**
c. More wealthier d. Most wealthiest

- Ref: NR IAS ACADEMY's
21. Three angles of a triangle are $x+5^\circ$, $x+10^\circ$ and $x+15^\circ$. Find X.
 a. 30° b. 80°
 c. 50° ✓ d. 60°
 Ref: NR IAS ACADEMY's
22. The range of 10 first prime numbers is 2,3,5,7,11,13,17,19,23 and 29
 a. 23 b. 29
 c. **27**✓ d. 21
 Ref: NR IAS ACADEMY's
23. Find the two numbers whose sum is 27 and product is 182
 a. 15, 14 b. 16, 12
 c. 18, 13 d. **13, 14**✓
 Ref: NR IAS ACADEMY's
24. Which of the following curves does not pass through the origin?
 a. $y=x^3+1$ ✓ b. $y^2=2x^2$
 c. $y=x^3$ b. $a^2y^2=x^2(a^2-x^2)$
 Ref: NR IAS ACADEMY's
25. The remainder when x^3+x^2-7x-3 is divided by $x-3$ is
 a. **12**✓ b. 14
 c. 5 d. 15
 Ref: NR IAS ACADEMY's
26. Amphibians of plant kingdom are called as
 a. **Bryophytes**✓ b. Algae
 c. Pteridophytes d. Gymnosperms
 Ref: NR IAS ACADEMY's +1 Botany Material, Pg.37
27. The mango fruit is called as stone fruit, because it as
 a. Skinny epicarp b. Stony mesocarp
 c. Fleshy endocarp d. **Hard endocarp**✓
 Ref: NR IAS ACADEMY's 10th Science Material, Pg.32
28. The vascular bundles are 'skull shaped' in
 a. Dicot root b. Monocot root
 c. Dicot stem d. **Monocot stem**✓
 Ref: NR IAS ACADEMY's Biology Handwritten Volume 1 Pg.3
29. Complete oxidation of one molecule of glucose yields
 a. **38ATP**✓ b. 36ATP
 c. 35ATP d. 2ATP
 Ref: NR IAS ACADEMY's Biology Handwritten Volume 1, Pg.6
30. The root pockets are present instead of root caps in
 a. Utricularia b. **Eichhornia**✓
 c. Hydrilla d. Lymnophylla
 Ref: NR IAS ACADEMY's +1 Botany
31. What is the disease cause due to the infection by a bacterium called Heliobacter pylori?
 a. Tooth decay b. **Peptic ulcer**✓
 c. Liver cirrhosis d. Peritonitis
 Ref: NR IAS ACADEMY's +2 Zoology Material, Pg.7
32. The state emblem of India was adopted from
 a. Kalinga Edict b. **Saranath Pillar**✓
 c. Sanchi Stupas d. Arthasastra
 Ref: NR IAS ACADEMY's 6to10th Civics & Economics, Pg.17
33. Pattini cult in Tamil Nadu was introduced by
 a. Pandyan Neduncheliyan
 b. **Cheran Senguttuvan**✓
 c. Elango Adigal d. Mudathirumaran
 Ref: NR IAS ACADEMY's +1 History Material, Pg.27
34. The Headquarters of the French possession in India
 a. **Pondicherry**✓ b. Karaikal
 c. Chandranagore d. Mahi
 Ref: NR IAS ACADEMY's Modern India One word. Pg.4, Ques.44
35. The Subsidiary system was introduced by
 a. Lord Hastings b. **Lord Wellesley**✓
 c. George Barlow d. Sir John Shore
 Ref: NR IAS ACADEMY's History Volume 2, Pg.15
36. An object is placed between two parallel plane mirrors, the number of images observed will be
 a. 2 b. 4
 c. 6 d. **Infinite**✓
 Ref: NR IAS ACADEMY's Physics Handwritten Volume 9, Pg.6
37. Two vehicles A and B are running at velocities of 60km/hr and 45km/hr respectively. Calculate the relative velocity of vehicle A if both travel eastwards
 a. 105km/hr b. **15km/hr**✓
 c. 52.5km/hr d. 60km/hr
 Ref: NR IAS ACADEMY's
38. Which of the following physical quantities has no dimension?
 a. Force b. Momentum
 c. Impulse d. **Angle**✓
 Ref: NR IAS ACADEMY's +1 Physics Volume 1, Pg.8
39. The lightest gas which is non inflammable is
 a. **Helium**✓ b. Hydrogen
 c. Nitrogen d. Argon
 Ref: NR IAS ACADEMY's
40. Which has maximum ionisation energy?
 a. Alkali metals b. Alkaline earth metals
 c. Halogens d. **Noble gases**✓
 Ref: NR IAS ACADEMY's Chemistry Handwritten Pg.6
41. Self Respect movement was started by
 a. Gandhi b. Ambedkar
 c. Jyotiba Phule d. **Periyar E.V.R**✓
 Ref: NR IAS ACADEMY's Modern India, Pg.61
42. In which year the Vernacular Press Act was passed?
 a. **1878**✓ b. 1882
 c. 1898 d. 1902
 Ref: NR IAS ACADEMY's Modern India, Pg.50
43. Which among the following journal was edited by Mussolini?
 a. New Italy b. Main Kamph
 c. **Avanthi**✓ d. Risorgimento
 Ref: NR IAS ACADEMY's
44. The League of Nations was established in the year
 a. **1920**✓ b. 1940
 c. 1960 d. 1980
 Ref: NR IAS ACADEMY's
45. The city along the Thames River is
 a. New York b. Kolkata
 c. Paris d. **London**✓
 Ref: NR IAS ACADEMY's
46. The Earth has motions.
 a. One b. Three
 c. Two d. Four
 Ref: NR IAS ACADEMY's
47. National Income is otherwise called
 a. Real Income b. Money Income
 c. Nominal Income d. **Gross National Product**✓
 Ref: NR IAS ACADEMY's
48. As per 2011 census the literacy rate in India is

- a. 74.04%✓ b. 65.8%
c. 66.8% d. 67.8%

Ref: NR IAS ACADEMY's மீண்டும் மீண்டும் வகுப்பில் கூறப்பட்டுள்ளது. Important GK-Volume 1, Pg.17

49. Which year is described as "The year of The Great Divide"?
- a. 1991 b. 2001
c. 1921✓ d. 1981

Ref: NR IAS ACADEMY's 8th Geography Material

50. is a basic Institution of capitalism.
- a. Price system b. Income system
c. Cost system d. None

Ans: D (Most Probable)

51. Reserve Bank of India was established in
- a. 1935✓ b. 1945
c. 1939 d. 1969

Ref: NR IAS ACADEMY's Yellow Colour Indian Economy Book, Pg.51

52. Which one comes under the Quantitative Credit Control Methods?
- a. Bank Rate✓ b. Fixation of Margins
c. Direct Action d. Moral Suasion

Ref: NR IAS ACADEMY's Yellow Colour Indian Economy Book, Pg.53

53. Advertising appeals make people to use such articles, which may effect their health?
- a. Social objections ✓
b. Ethical objections
c. Historical objections
d. Economical objections

Ref: NR IAS ACADEMY's

54. Nuclear test Ban Treaty was signed in
- a. 1993 b. 1936
c. 1998 d. 1963✓

Ref: NR IAS ACADEMY's 6th to 10th Civics & Economics Pg. 78

55. In India, the First Municipal Corporation was setup in which one among the following?
- a. Calcutta b. Madras✓
c. Bombay d. Delhi

Ref: NR IAS ACADEMY's

56. 'மணநூல்' என்னும் அடை மொழியால் குறிக்கப்பெறும் நூல்
- a. நற்றிணை b. திருவாசகம்
c. சீவகசிந்தாமணி✓ d. குறுந்தொகை

Ref: NR IAS ACADEMY's

57. பெத்தலைகம் குறவஞ்சியின் ஆசிரியர்
- a. வீரமா முனிவர்
b. தஞ்சை வேதநாயக சாத்திரியர் ✓
c. ஜோசப் பெஸ்கி
d.

Ref: NR IAS ACADEMY's +1 Tamil Book Pg.70

58. கம்பநாடகத்தின் யாப்பு வண்ணங்களுக்குக் கூறப்படும் கணக்கீடு
- a. தொண்ணூற்றாறு ✓
b. நூற்றியெட்டு
c. நூறு d. பதினெட்டு

Ref: NR IAS ACADEMY's +2 தமிழ். Pg.58

59. சொற்றொடர்நிலை என்று வழங்கப்படுவது
- a. உலா b. அந்தாதி ✓
c. கலம்பகம் d. பரணி

Ref: NR IAS ACADEMY's +2 தமிழ். Pg.84

60. 'ஓங்கியுயர்' - இலக்கணம் கூறுக
- a. ஏவல் வினைமுற்று

- b. எண்ணும்மை
c. வினைத்தொகை
d. ஒருபொருட் பன்மொழி✓

Ref: NR IAS ACADEMY's +2 தமிழ். Material Pg.84

61. 'Oh, how hot it is!'
This is an sentence.
- a. Imperative b. Assertive
c. Exclamatory✓ d. Interrogative.

Ref: NR IAS ACADEMY's

62. Choose the correct meaning of the word 'bona fide'
- a. Totally b. a Spoken Examination
c. Genuine✓ d. a Summary
63. The famous national song 'Vande Mataram' was written by

- a. Bankim Chandra Chatterji✓
b. Rabindranath Tagore
c. Kamala Das
d. Sarojini Naidu

64. Choose the correct passive form of the sentence: "They are mending the road"

- a. The road was being mended
b. The road has been mended
c. The road was mended by them✓
d. The road is being mended

65. Choose the correct option:-

- The albatross is a
- a. Snake b. Sea-bird✓
c. Volcano d. Mountain

66. If $A = (1 - 2 \ 3)$ and $B = \begin{pmatrix} -1 \\ 2 \\ 3 - \end{pmatrix}$ then $A + B =$

- a. (000) b. $\begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$
c. (-14) d. Not defined✓

67. If (7,3), (6,1), (8,2 and (P,4) are the vertices of a parallelogram taken in order then the value of P is
- a. 7 b. 6
c. 8 d. 9

68. Light year is the Unit of
- a) Frequency b) Distance✓
c) Energy d) Unit

Ref: NR IAS ACADEMY's 10th Physics handwritten, Pg.2

69. The resistance of an ideal ammeter is
- a) Small b) Zero✓
c) Infinite d) Very high

Ref: NR IAS ACADEMY's +2 Physics Volume 1, English medium Pg.118

70. The polarising angle for glass is
- a) 32.5° b) 57.5°✓
c) 90° d) 45°

Ref: NR IAS ACADEMY's +1 Physics Volume 1, Pg.214

71. Gram molecular mass of water
- a) 16 b) 2
c) 12 d) 18✓

Ref: NR IAS ACADEMY's Chemistry Handwritten Volume 3, Pg.5

72. The valency of carbon
 a) 6 b) 12
 c) **4**✓ d) 1
 Ref: NR IAS ACADEMY's Chemistry handwritten Volume 2, Pg.13

73. Sulpha drugs are prepared from
 a) Methylamine
 b) **Aniline**✓
 c) Benzylamine
 d) N-N - di methyl amine
 Ref: NR IAS ACADEMY's +2 Chemistry Volume 2, Pg.350

74. de-Broglie equation
 a) $\lambda = mv/h$ b) $\lambda = hmv$
 c) $\lambda = hv/m$ d) **$\lambda = h/mv$** ✓
 Ref: NR IAS ACADEMY's +2 Chemistry Volume 1, Pg.6

75. Unicellular plants found floating in oceans and freshwater are called
 a) Algae b) Zooplanktons
 c) **Phytoplanktons**✓ d) Epiphytes
 Ref: NR IAS ACADEMY's +1 Botany Material, Pg.5

76. What is the name for the permanent birth control method in Female?
 a) Vasectomy
 b) **Tubectomy**✓
 c) Removal of uterus
 d) Contraceptive pills
 Ref: NR IAS ACADEMY's +2 Zoology One Word, Pg.25, Ques.439

77. Who discovered ABO blood group?
 a) **Karl Landsteiner**✓
 b) T.H. Morgon
 c) A.S. Wiener
 d) Galwin
 Ref: NR IAS ACADEMY's Biology Handwritten Volume 2, Pg.26

78. Respiratory center is present in
 a) The Cerebellum
 b) **The Medulla Oblongata**✓
 c) The Spinal Cord
 d) The Parietal lobe
 Ref: NR IAS ACADEMY's Biology Handwritten Volume 2, Pg.7

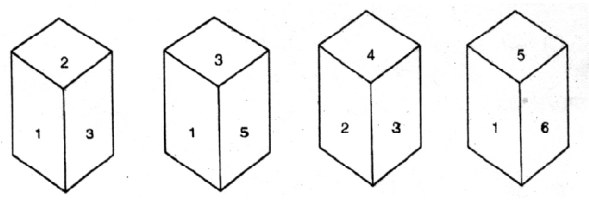
79. Decibel is a unit to measure the
 a) **Intensity of sound**✓
 b) Intensity of radiation
 c) Intensity of light
 d) Intensity of heat
 Ref: NR IAS ACADEMY's 6th Science Book Page No.42

80. Which of the following act as Emergency Gland?
 a) Thymus b) Thyroid
 c) Pituitary d) **Adrenal**✓
 Ref: NR IAS ACADEMY's Biology Handwritten Volume 2, Pg.70

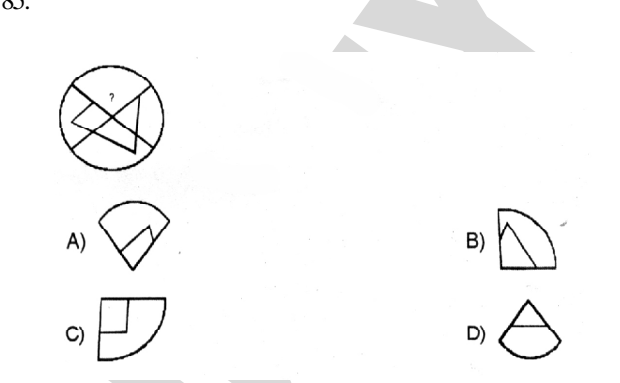
PART - B
Psychology

81. Fill in the blank with correct homophone:
 The Millionaire died
 a) Airless b) **Heirless**✓
 c) Hairless d) Hareless
82. If DIG is coded as 497, decode the expression 2556
 a) LEAF b) BEED
 c) **BEEF**✓ d) HEAD

83. If first October is Sunday, then 1st November will be
 a) **Wednesday**✓ b) Thursday
 c) Monday d) Tuesday
84. Which is the number opposite to 4 in the given dice?



- a) **1**✓ b) 6
 c) 5 d) 2



Ans : A)

86. Raja ranks 7th from the top while John ranks 17th from the bottom in an exam marks list. If there is one rank between Raja and John, how many students were there in the list?
 a) 29 b) **25**✓
 c) 27 d) 31

87. Find the missing number in the series. 1, 7, 15, 25, 37, ?
 a) 45 b) 47
 c) 49 d) **51**✓

88. The age of a father is twice that of the elder son. Ten years hence, the age of the father will be three times that the younger son. If the difference of ages of the two sons is 15 years. The age of the father is
 a) **50 years**✓ b) 55 years
 c) 60 years d) 70 years

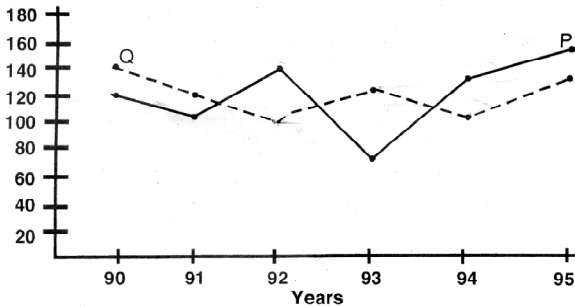
89. The total number of digits used in numbering the pages of a book having 366 pages is
 a) 732 b) **990**✓
 c) 1098 d) 1305

90. Sharma's salary is 50% above Varma's salary. What percentage is Varma's salary below Sharma's
 a) 50% b) **33 1/3%**✓
 c) 66 2/3% d) 75%

91. A farmer built a fence around his square plot. He used 27 fence poles on each side of the square. How many poles did he need altogether?
 a) 100 b) **104**✓
 c) 108 d) None of these

92. Read the following passage and answer the questions 92-94.
 Seven children A, B, C, D, E, F and G are standing in a line. 'G' is to the right of 'D' and to the left of 'B'. 'A' is on the right of 'C'. 'A' and 'D' have one child between them. 'E' and 'B' have two children between them. 'D' and 'F' have two children between them.

- 1) Son
3) Father
a) Son
c) **Uncle**✓
- 2) Grandson
4) Uncle
b) Aunt
d) Father
120. If '+' means division '-' means multiplication, 'x' means minus and ÷ means plus, then find out the value of $(140 + 5 \div 2) - 3 \times 10$ is
a) 100
b) 70
c) 90
d) **80**✓
121. An article is sold at Rs.180 at a profit of 20%. What is the cost of the item?
a) 160
b) 140
c) 170
d) **150**✓
122. If $a/3 = b/4 = c/7$, $a+b+c/c = ?$
a) 7
b) 1/2
c) **2**✓
d) 1/4
123. Pointing to a man on the stage, Rita said, "He is the brother of the daughter of the wife of my husband". How is the man on the stage related to Rita?
a) **Son**✓
b) Husband
c) Cousin
d) Nephew



124. Production of two types of vehicles 'P' type and 'Q' type by a factory over the years (in thousands). In which of the years was production of both P and Q type vehicle together the maximum?
a) 1991
b) **1995**✓
c) 1994
d) 1992
125. In which of the following years was there exact 30% increase in production of 'Q' type vehicles over the previous year?
a) 1992
b) 1994
c) **1995**✓
d) 1993
126. The production of 'P' type vehicles in 1992 was approximately what percent of the 'Q' type vehicle in the same year?
a) 40%
b) 100%
c) **140%**✓
d) 120%
127. What is the difference in the production of Q type vehicles between 1994 and 1995?
a) 20000
b) **30000**✓
c) 40000
d) 10000
128. What is the approximate % drop in production of 'P' type vehicle from 1992 to 1993?
a) 60
b) 40
c) **43**✓
d) 35
129. What is the increase in production of 'P' type vehicle between 1993 and 1994?
a) 40000
b) 20000
c) 50000
d) **60000**✓

130. Cover : Slip : Forward : ?
a) Mid-on
b) Defense
c) Goalkeeper
d) Third man

Ans: b) Defense (Most Probable)

131. Penology: Punishment :: Seismology : ?
a) Law
b) **Earthquakes**✓
c) Order
d) Medicine
132. Indians can adapt themselves in any situation. The meaning of the word "ADAPT" is
a) Follow
b) Clever
c) **Adjust**✓
d) Choose
133. If paper is called wood, wood is called staw is called grass, grass is called rubber and rubber is called cloth what is the furniture made up of
a) Paper
b) Wood
c) **Straw**✓
d) Grass
134. Find the Antonym:
Attack : Defend :: Affirm : ?
a) **Deny**✓
b) Abrupt
c) Final
d) Kind
135. If the animals which can walk are called swimmers, animals who crawl are called flying, those living in water are called snakes and those which fly in the sky are called hunters, then what will a lizard be called
a) Swimmers
b) Snakes
c) **Flying**✓
d) Hunters
136. A, B, C, D, E, F and G are sitting on the wall and all are facing east.
C is immediate right of D
B is at extreme end and has E as his neighbourhood
G is between E and F
D is sitting third from the south end
Who is sitting to the right of E?
a) A
b) B
c) **G**✓
d) C
137. Which of the following pair of people are sitting at the extreme end?
a) **AB**✓
b) AE
c) CB
d) FB
138. Between which of the following pairs is D sitting?
a) AC
b) AF
c) CE
d) **CF**✓
139. Theft : Confess :: Fault : ?
a) Commit
b) Say
c) Talk
d) **Admit**✓
140. Patrol is related to security in the same way Insurance related to
a) Money
b) **Protection**✓
c) Policy
d) Finance
