



SCHOOL ASSISTANT ASSOCIATION, CHITTOOR MODEL NMMS EXAM - 2016.

Name :

School :

NOTE : Choose correct answer and shade in the separate OMR sheet.

I In the number series given below, one number is missing. Each series is followed by five alternatives. One of them is the right answer.

1. 4, 9, 13, 22, 35, 57, —
1. 99 2. 79 3. 69 4. 92 5. 82

2. 2, 5, 11, 23, 47, —
1. 95 2. 86 3. 85 4. 98 5. 96

3. 36, 20, 26, 24, 20, 18, 14, —
1. 10 2. 12 3. 8 4. 1 5. 5

4. 3, 6, 5, 10, 7, 18, 9, 34, —
1. 56 2. 13 3. 11 4. 14 5. 21

5. 57, 35, 22, 13, 9, —
1. 5 2. 25 3. 4 4. 6 5. 2

6. 1, 1, 8, 4, 27, 9, 64, —
1. 4 2. 6 3. 9 4. 16 5. 25

7. 4, 16, 12, 64, 36, 256, 108, —
1. 1026 2. 322 3. 1024 4. 824 5. 1022

8. 100, 25, 4, 120, 15, 8, 150, 5, —
1. 40 2. 30 3. 10 4. 50 5. 20

9. 3, 19, 51, 99, —
1. 153 2. 143 3. 163 4. 173 5. 183

10. 7, 26, 63, 124, 215, 342, —
1. 511 2. 512 3. 510 4. 513 5. 514

II There are two pairs of letters combination in each question. The first pair has some relationship between its members. In the second pair, one number is missing. Find out.

11. CBA : DEG :: ? : MNP

1. JKL 2. JLK 3. LKJ 4. LJK 5. K LJ

12. QIKM : QGSU :: WYAC : ?

1. EGIJ 2. EGIR 3. EGJK 4. EGJL 5. EGIJ

13. ACEQ : JLNP :: ? : kmnq

1. BEFH 2. BDGH 3. BDHF 4. BDFH 5. BEFH

14. NSQM : PUSO :: ? : FKJE

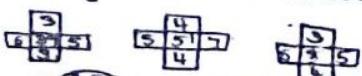
1. DQIC 2. DIHC 3. HICQ 4. FGHI 5. DIFI

15. ABCD :: ? :: IJKL : JKLM

1. BCEF 2. BCFG 3. BCFE 4. BCDE 5. BCDF

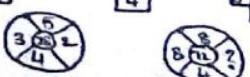
III Identify suitable answer.

16.



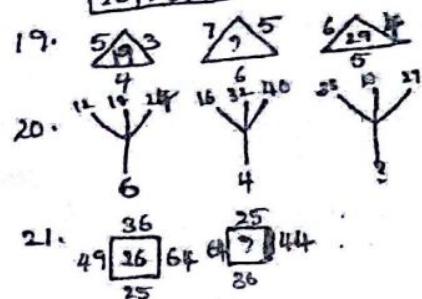
1. 35 2. 4 3. 37 4. 45 5. 54

17.



1. 3 2. 9 3. 6 4. 2 5. 16

7	1	2
21	22	40
2	2	5
20	23	43



5	5	2
2	4	1
8	3	10
40	30	?

6	9	15
8	12	20
4	6	7

3	6	8
5	8	4
4	7	9

IV Odd man out.

26. 1. 6 2. 10 3. 12 4. 15 5. 21

27. 1. 111 2. 131 3. 151 4. 111 5. 181

28. 1. 35 2. 53 3. 77 4. 88 5. 56

29. 1. Sugarcane 2. Coffee 3. Tobacco 4. Rice 5. Wheat

30. 1. Kidney 2. Lungs 3. Liver 4. Heart 5. Ear

31. 1. Listen 2. Swim 3. Walk 4. Climb 5. Run

32. 1. post 2. Electricity 3. Telegram 4. Telephone 5. Message

33. 1. Barometer 2. Lactometer 3. Perimeter 4. Thermometer 5. Manometer

34. 1. Eagle 2. Cock 3. Crow 4. Parrot 5. Pigeon

35. 1. chittoor 2. Warangal 3. Kurnool 4. Vizag 5. Srikakulam

V Given words are related in some way. The same relation between third and fourth words. find out the answer.

36. Head : Brain :: Mouth : ? Ans:- 1. food 2. Tongue 3. talk 4. taste 5. drink

37. Insect : Mosquito :: Bird : ? 1. fly 2. Ant 3. Crow 4. Snakes 5. Spur

38. Hot : Oven :: Cold : ? 1. Icecream 2. Air Conditioner 3. Snow 4. Refrigerator

39. flower : Rose :: Mammal : ? 1. Hen 2. Sparrow 3. Cobra 4. Cow 5. Eagle

40. Bird : Wing :: Fish : ? 1. Gill 2. fin 3. Tail 4. Scale

41. Muslim : Mosque :: Sikhs : ? 1. Golden temple 2. Medina 3. Fire Temple 4. Gurudwara 5. C

42. $\frac{3}{2} : 9 :: \frac{4}{3} : ?$ 1. 12 2. 64 3. 8 4. 16 5. 18

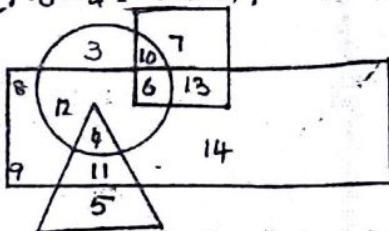
43. CG : 37 :: ? : 49 1. DH 2. DG 3. DI 4. CG 5. CI

44. $\square : \boxed{\square} :: \triangle : ?$ 1. \square 2. \triangle 3. Δ 4. \square 5. Δ

45. Australia : Canberra :: ? : Madrid

1. Hungary 2. Spain 3. Turkey 4. Finland 5. Netherlands

VI. In the given figure Rectangle represents males, Triangle represents educators, Circle represents urban, Square represents civil servants



46. Who among the following is an educated male who is not an urban resident?

1. 4 2. 5 3. 9 4. 11

47. Who among the following is neither a civil servant nor educated but is urban and not a male?

1. 2 2. 3 3. 6 4. 10

48. Who among the following is a female, urban resident and also a civil servant?

1. 6 2. 7 3. 10 4. 13

49. Who among the following is an educated male who hails from urban area?

1. 4 2. 2 3. 11 4. 5

50. Who among the following is uneducated and also an urban male?

1. 2 2. 3 3. 11 4. 12

51. Who among the following is only a civil servant but not a male nor urban oriented and uneducated?

1. 7 2. 8 3. 9 4. 14

52. Who among the following is a male, urban oriented and also a civil servant but not educated?

1. 13 2. 12 3. 6 4. 10

53. Who among the following is a male civil servant, who is neither educated nor belongs to urban area?

1. 7 2. 13 3. 4 4. 1

VII. Identify missing letters in the letter series

54. ab _ baa _ ab _

1. aaaaaa 2. aabaa 3. aabab 4. baabb 5. abbaa

55. m _ nm _ n _ an _ a _ ma _

1. aamnam 2. ammann 3. aammnn 4. amamnn 5. amammn

56. _ Stt _ tt _ tts _

1. tsts 2. ttst 3. sstt 4. ttss 5. tsst

57. ac _ cab _ baca _ aba _ aicac

1. aacb 2. acbc 3. babbb 4. bcbb 5. cbbb

58. :c _ d _ bb :c _ - d bb _ cddb _

1. cddeb 2. dcebb 3. ddcecb 4. ecdbe 5. ccdde

59. _ epw _ de _ hd _ wh

1. dhewwp 2. dhwepe 3. dphuep 4. dhpuoe 6. dhpwep

60. t _ rq _ sr _ ts _ tsr _

1. stqrqr 2. stqrrq 3. stqrqq 4. stqqrq 5. stqrrr

VIII Given questions are based on simple arithmetic. choose correct answers

61. $5698 + ? = 7801$

Ams. 1. 2103 2. 2203 3. 2003 4. 2102 5. 2202

62. 15% of 180 = ?

1. 25 2. 26 3. 28 4. 27 5. 29

63. $(405 \times 5) - 9 = ?$

1. 2013 2. 2014 3. 2015 4. 2016 5. 2017

64. $\sqrt{36} + \sqrt{25} = ?$

1. 4 2. 16 3. 8 4. 6 5. 12

65. $\frac{30}{6} + (9 \times 0.02) = ?$

1. 5.3 2. 5.13 3. 5.03 4. 4.03 5. 5.23

77 Some letters are
in Column-II. Each
letter has one
meaning. The com-

ponents are given in
Column-I. Select
the letter of column-II
answering question.

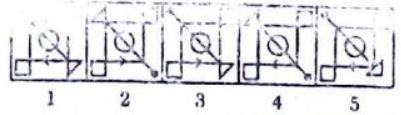
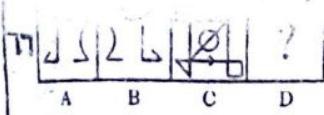
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Ans 54

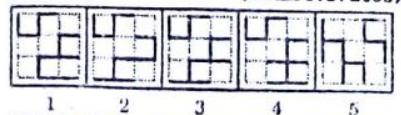
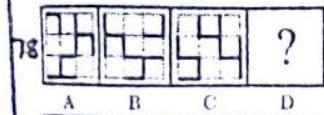
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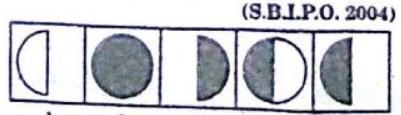
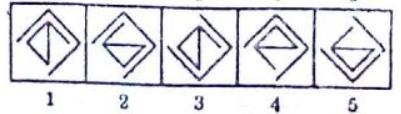
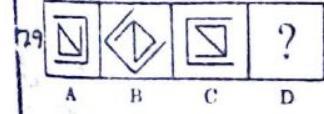
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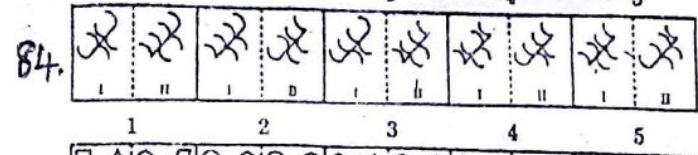
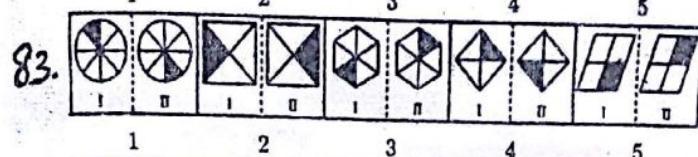
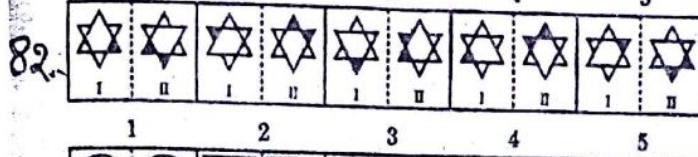
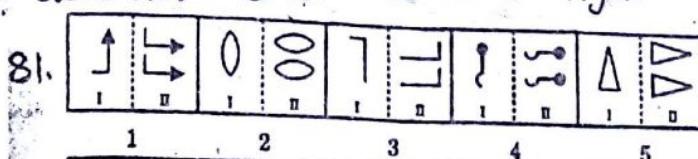


(S.B.I.P.O. 2004)

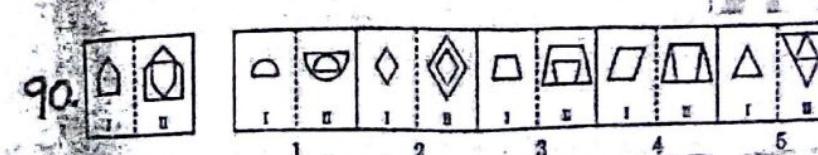
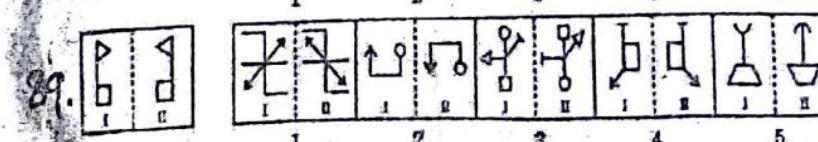
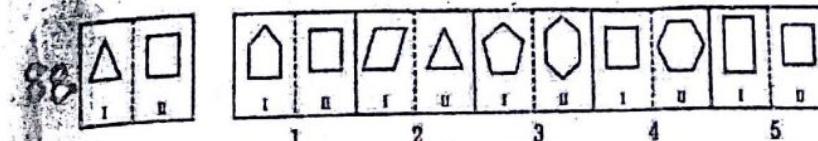
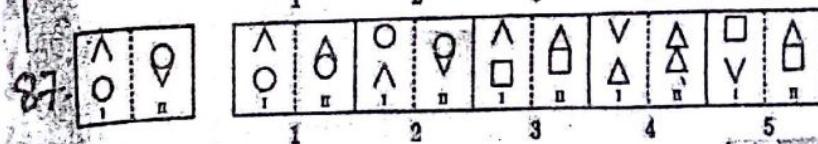
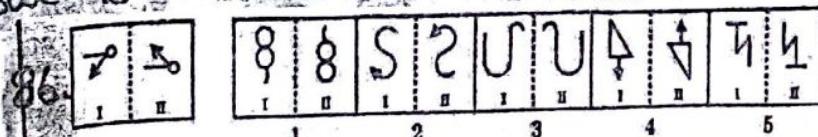


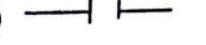
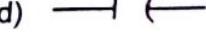
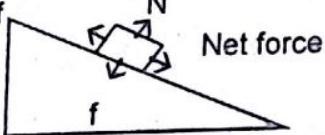
Rules A1B1
Answer
relationship
by
a suitable
rule that
leave the
mark (C)
(D).

X Directions: In each of the following questions, in four out of the given five pairs of figures, fig. I is related to fig. II in the same particular manner. Spot out of the pair in which this relationship does not exist between figures I and II.



XII Directions: In each of the following questions, a related pair of figures (unnumbered) is following by five other pairs of figures numbered 1, 2, 3, 4 and 5. Out of the five numbered pairs, select the pair that has a relationship similar to that in the unnumbered pair. The best answer is to be selected from a group of fairly close choices.



91. The holes are made in hanging banners because ()
 a. To increase the air pressure on banners
 b. The air can pass through these holes
 c. To decrease the temperature of banners
 d. To decrease air pressure in banners
- a) 1-c, 2-a, 3-d, 4-b (b) 1-c, 2-a, 3-b, 4-d (c) 1-a, 2-c, 3-d, 4-b (d) 1-d, 2-a, 3-b, 4-c
92. What is the angle between two plane mirrors when there are 7 images ()
 a) 30° (b) 45° (c) 60° (d) 90°
93. If $1 \frac{Km}{h} = \frac{5}{18} m/s$, then $\frac{m}{s} = \dots k.m./h$ ()
 a) 18×5 (b) $\frac{5}{18}$ (c) $\frac{18}{5}$ (d) $\frac{1000}{3600}$
94. The temperature of a person is recorded as $100^\circ F$. How much excess of temperature does he have. ()
 a) $1.6^\circ F$ (b) $63^\circ C$ (c) $63^\circ F$ (d) $1.6^\circ C$
95. Safety device used in electric circuit is ()
 a)  (b)  (c)  (d) 
96. The unit of electrical energy is ()
 a) Watt (W) (b) Kilo Watt (KW) (c) $\frac{\text{Kilowatt}}{\text{Hour}} \left(\frac{Kw}{H} \right)$ (d) Kilo Watt Hour (KWH)
97. A force can ()
 a) Change the speed of body (b) Change the shape of body
 c) Change the direction of body (d) All of these
98.  Which of the following is not correct in the adjacent diagram ()
- a) Frictional force (b) Net force (c) Weight (w) (d) Normal force (N)
99. Frictional force does not depend on ()
 a) Nature of surface (b) Area of contact (c) Normal force (d) None of the above
100. Identify the statement which shows friction is friend ()
 a) Friction reduces efficiency of machines (b) Friction causes grip
 c) Friction causes wear and tear (d) Friction leads to loss of energy
101. When we hold a gong of ringing bicycle bell, the sound stops, Because ()
 a) Sound doesn't propagate through hands (b) Bell stops ringing
 c) Vibrations of the gong stops (d) All the above
102. Identify the correct order regarding the Velocity of sound in different media ()
 a) Solid > liquid > gas > vacuum (b) Sound < liquid < gas < vacuum
 c) Solid = vacuum > liquid > gas (d) Solid > liquid > gas = vacuum

BIOLOGY

114. Choose the correct matching answer ()

1. Leeuwen hock	()	a) Cell
2. Robert Hooke	()	b) Nucleus
3. Robert Brown	()	c) Bacteria
4. Fontana	()	d) Nucleolus

a) 1-c, 2-a, 3-d, 4-b (b) 1-c, 2-a, 3-b, 4-d (c) 1-a, 2-c, 3-d, 4-b (d) 1-d, 2-a, 3-b, 4-c

115. Among which are belonging to Algae ()

a) Spirogyra	(b) Rhizopus	(c) Chara	(d) Chlamydomonous
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116. Rhizobium bacteria fix the atmospheric Nitrogen in the plants of family ()

a) Malvacear	(b) Leguminaceae	(c) Solanaceae	(d) Poaceae
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117. Choose the correct matching answer ()

1. Citrus	()	a) Red Rot
2. Sugarcane	()	b) Smut
3. Ground nut	()	c) Cancer
4. Rice	()	d) Tikka

a) 1-a, 2-c, 3-b, 4-d (b) 1-c, 2-a, 3-b, 4-d (c) 1-a, 2-c, 3-d, 4-b (d) 1-c, 2-a, 3-d, 4-b

118. Select the related statement to Earth worm ()
 a) Haemaphrodite (b) Friend of Farmer (c) Re-generation (d) All the above
119. Choose the correct Statement ()
 a) Eastrogen - Release the ovim
 b) Test osterone - Release the sperm
 c) Adrenaline - Stimulate pressure
 d) Pituitary gland - controle emotion
- a) a, b (b) b, c (c) c, d (d) a, d
120. Choose the correct matching ()
 a) Potato - Fruit (b) Carrot-Stem (c) Grount nut-Root (d) Cabbage - leaves
121. The expantion of I U W C ()
 a) Indian union for wild life conservation (b) International unio for wild life conservation
 (c) Internation union for wood life conservation (d) Indian united for wild life conservation
122. Select the Endangered organisms, ()
 a) Orchid, Cycas (b) Hibascus, Sandle wood (c) Rauvolfia, Neem (d) Cyces Citrus
123. The insectivorous plant among these ()
 a) Orchid (b) Cactus (c) Nepanthis (d) Aloevera
124. Choose the incorrect statement ()
 a) wool is a poor conductor of heat (b) Animal fibres are Natural fibre
 (c) The Silk produced in our state is "TASAR" (d) Cotton is mainly protein
125. Factores involved in the process of photosynthesis ()
 a) Co_2 , Chlorophill, O_2 , N_2 (b) Co_2 , Chlorophyll, Water, Light
 (c) Light, O_2 , Chlorophill, Water (b) O_2 , Light, Leaff, water

MATHS

126. Value of $a^{(a-x)}(b-x)^{(c-x)} \dots (z-x)^{(y-x)}$ ($a \neq 0$) is ()
 (A) 0 (B) 1 (C) x (D) a
127. If $x^2 + \frac{1}{x^2} = 2$ then the value of $x^2 - \frac{1}{x^2}$ is ()
 (A) 0 (B) 1 (C) 2 (D) 4
128. $(-1)^a + (-1)^b = 0$ then which of the following is true ()
 (A) a, b are even numbers (B) a, b are odd number
 (C) a, even, b is odd number (D) All the above is true
129. Value of a^0 if $a=0$ ()
 (A) 1 (B) 0 (C) a (D) not defined
130. If diameter of circle is "d" then its Area ()
 (A) πr^2 (B) $2\pi r$ (C) πd (D) $\frac{\pi d^2}{4}$
131. Value of $\frac{1+3+5+7+\dots+99}{2+4+6+8+\dots+100}$ is ()
- (A) $\frac{99}{100}$ (B) $\frac{50}{51}$ (C) 1 (D) $\frac{1}{2}$
132. If Length and breadth of Rectange is doubled then percentage of increase in its Area ()
 (A) 100% (B) 200% (C) 300% (D) 400%

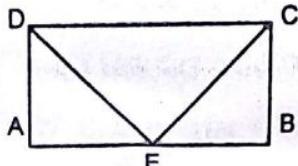
133. If two sides of Isosceles triangle is 5 Cm, 11 Cm then possibility of third side ()
 (A) 5 Cm (B) 11 Cm (C) 5 Cm or 11 Cm (D) data insufficient

134. If two sides of triangle is 5 Cm, 6 Cm then which of the following is not third side ()
 (A) 4 Cm (B) 8 Cm (C) 12 Cm (D) We can't say

135. Ratio between side and Height of equilateral triangle ()
 (A) $\sqrt{3}:2$ (B) $2:\sqrt{3}$ (C) $3:\sqrt{2}$ (D) $\sqrt{2}:3$

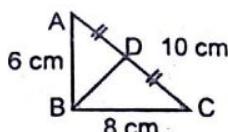
136. If 5 is 10% of X and 20% of Y then $X+Y=?$ ()
 (A) 30 (B) 35 (C) 50 (D) 75

137. In Adjacent figure
 ar [ABCD] : ar[DEC] ()



- (A) 1 : 2 (B) 2 : 1 (C) $\sqrt{2}:1$ (D) $1:\sqrt{2}$

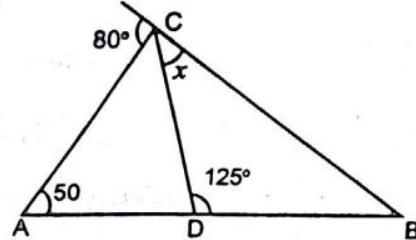
138. In Adjacent figure
 length of BD = ? ()



- (A) 5 Cm (B) 6 Cm (C) 7 Cm (D) 8 Cm

139. Value of $\frac{1}{1.2} + \frac{1}{2.3} + \frac{1}{3.4} + \frac{1}{4.5} + \frac{1}{5.6} + \dots + \frac{1}{9.10} = ?$ ()
 (A) $\frac{9}{10}$ (B) $\frac{10}{9}$ (C) 1 (D) 0

140. In adjacent figure value of X is ()



- (A) 25° (B) 35° (C) 45° (D) 55°

141. If $\frac{a}{b+c} + \frac{b}{a+c} + \frac{c}{a+b} = 3$ then the value of $\frac{a+b+c}{b+c} + \frac{a+b+c}{a+c} + \frac{a+b+c}{a+b}$ is ()
 (A) 4 (B) 5 (C) 6 (D) 7

142. No. of integers between 24^2 and 25^2 is ()
 (A) 25 (B) 35 (C) 48 (D) 49

143. Square root of $16x^{16}$ is ()
 (A) $4x^4$ (B) $4x^8$ (C) $4x^{16}$ (D) $8x^4$

144. Statement A: All Rectangles are parallelograms ()

Statement B: All Parallelograms are Rectangles

- (A) A, B is true (B) A, B is false (C) A is true, B is false (D) A is false, B is true

145. If Area and Parameter of Square are numerically equal then its perimeter is ()
 (A) 4 Cm (B) 8 Cm (C) 12 Cm (D) 16 Cm

HISTORY

146. Who was introduce the Nayankara system in Kakatiya ()
 a) Rudradeva (b) Prola-II (c) Prataparudra (d) Ganapati deva
147. The persian trader who visisted the vijayanagara Kingdom in 1420 A.D. was ()
 a) Abdul Razzak (b) Marco polo (c) Alberuni (d) Amir Khusro
148. Krishnadevaraya was also a patron of Telugu Literature and he composed himself the poetic work ()
 a) Amuktamalyada (b) Palnati Veracharitra
 (c) Ponduranga Mahathyam (d) Parijatapaharanam
149. Mughals between the year created their empire ()
 a) 1560-1605 A.D. (b) 1550-1700 A.D. (c) 1605-1627 A.D. (d) 1627-1658 A.D.
150. Suh - i - kul - means ()
 a) Honesty (b) Truthfulness (c) Justice (d) Universal peace
151. Khudkasht Land belongs to whom ()
 a) Land of farmers (b) Land of Kings (c) Land of Zamindars (d) Land of Poor
152. Who was the founder of Arya Samaj ()
 a) Swamy Vivekananda (b) Ramakrishna Paramahamsa
 (c) Swamy Dayananda Saraswathi (d) Raja Ramamohan Roy
153. The Sarada Sadan School and Ashram was established in Mumbai by ()
 a) Ramabai Saraswathi (b) Savitri Bai phule
 (c) Durga bai Deshmuk (d) Narayana garu
154. The tribals of Arakuloya Perform the following dance ()
 a) Sadir (b) Dhimsa (c) Kuravanji (d) Gusadi
155. Who was called as Pada Kavitha Pitamaha a popular saint composer of Andhra Pradesh ()
 a) Thallapaka Annamacharya (b) Ramadasu Keertana
 (c) Nathpanthis (d) Mirabai

GEOGRAPHY

156. Which colour is used to show hills in a map ()
 a) Light grey (b) Dark green (c) Yellow (d) Light Red
157. The population density of Andhra Pradesh according to 2011 censes ()
 a) 269 (b) 555 (c) 308 (d) 123
158. M.S.L. Means ()
 a) Monthly seal level (b) Mean sea Level
 (c) Maximum seal level (d) Minimum seal level
159. The Surface of earth covered with water ()
 a) 71% (b) 80% (c) 40% (d) 97%
160. Incoming solar energy absorbed by atmosphere in ()
 a) 6% (b) 20% (c) 16% (d) 51%
161. The earth revolves around the sun on a regular path called ()
 a) Axix (b) Orbit (c) Face (d) Angle

162. In 1576 - 78 the English Mariner that visited Baffin Island ()
 a) Martin Louis (b) Martin Frosblisher (c) Martin mao (d) Martin Linlithgo
163. The parliament passed the Forest Rights act in ()
 a) 1988 (b) 2009 (c) 2005 (d) 2006
164. Bhavanapadu a fishing village near the coast of Andhra Pradesh located in which district ()
 a) Viskakhpapatnam (b) Nellore (c) Srikakulam (d) Krishna
165. Alluminum is extracted from which ores ()
 a) Asbestos (b) Barytes (c) Bauxite (d) Fledspar

POLITICAL SCIENCE

166. The first political organisation (assocation) was formed by ()
 a) Surendranath Banerjee (b) Dadabai Naoroji
 (c) K. C. Telang (d) Gokhale
167. A woman who was the first Graduate from Culcutta attend the I.N.C. in 1886 ()
 a) Sarojini Naidu (b) Kadambari Ganguli
 (c) Durgabai Deshmukh (d) Vijayalakshmi Pandi
168. Drafting Committee chairman was ()
 a) Dr. B.R. Ambedkar (b) Babu Rajendra prasad
 (c) B.G. Tilak (d) Bipin Chandrapal
169. Which Party used the lotus symbol ()
 a) B.S.P. (b) B.J.P. (c) T.R.s. (d) T.D.P.
170. Who is the minister of women & Child Development ()
 a) Mamatha Benarjee (b) Menaka Sanjya Gandhi
 (c) Sushma Swaraj (d) Sheela Deekshith
171. One man one vote one value putting our political democracy in India who says these words ()
 a) Jawaharlal Nehru (b) Mahatma Gandhi
 (c) B.R. Ambedkar (d) N.G. Ranga
172. How many Lok Sabha constituencies are Reserved for S.C. ()
 a) 41 (b) 60 (c) 79 (d) 403
173. Industries, electricity, labour & Factories relating to which list ()
 a) State List (b) Central List (c) Concurrent List (d) All the above
174. F.I.R. Means ()
 a) First Information Report (b) First interest Report
 (c) First Information Relevant (d) First Intellectual Report
175. The Police department works under this control ()
 a) Defence (b) Finance (c) Home (d) Agriculture

ECONOMICS

176. Who is the present Governor of R.B.I. ()
 a) Raghuram Rajan (b) Urjit Patel (c) Y.V. Reddy (d) Arun Jaitley
177. The gold coin "Besant" was standard currency of period ()
 a) Mauryans (b) Romans (c) Satavahanas (d) Sultans
178. A.T.M. Means ()
 a) Automated Teller Machine (b) Any Time Money
 (c) Automatic Told machine (d) Automatic Talk machine
179. The National Calorie standard was established as Kcal per day for rural ()
 a) 2,100 Kcal (b) 2,400 Kcal (c) 1,900 Kcal. (d) 2,700 Kcal
180. The Right of Life enshrined in the Article ()
 a) Article 24 (b) Article 21 (c) Article 20 (d) Article 19
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KEY

1. 4	31. 1	61. 2	91. b+d	121. b	151. B
2. 1	32. 2	62. 4	92. D	122. a	152. B
3. 2	33. 3	63. 4	93. 3 C	123. C	153. D
4. 3	34. 2	64. 2	94. 1 a	124. d	154. C
5. 3	35. 2	65. 3	95. 1 a	125. b	155. C
6. 4	36. 2	66. 2	96. 4 d	126. b	156. B
7. 3	37. 3	67. 4	97. 4 d	127. a	157. B
8. 2	38. 4	68. 5	98. 3 B	128. C	158. A
9. 3	39. 4	69. 1	99. D	129. D	159. B
10. 1	40. 1	70. 3	100. D	130. D	160. B
11. 3	41. 4	71. 5	101. C	131. B	161. C
12. 2	42. 2	72. 3	102. C	132. C	162. C
13. 4	43. 3	73. 3	104. B	133. B	164. A
14. 2	44. 4	74. 3	105. C	134. C	165. C
15. 4	45. 2	75. 4	106. C	135. B	166. C
16. 3	46. 4	76. 5	107. B	136. D	167. A
17. 5	47. 2	77. 1	108. A	137. B	168. A
18. 5	48. 3	78. 3	109. B	138. A	169. B
19. 3	49. 1	79. 1	110. D	139. A	170. D
20. 5	50. 4	80. 5	111. B	140. A	171. C
21. 4	51. 1	81. 4	112. B	141. C	172. C
22. 2	52. 3	82. 2	113. A	142. C	173. A
23. 1	53. 2	83. 5	114. B b	143. A	174. B
24. 2	54. 2	84. 3	115. C b	144. C	175. A
25. 1	55. 3	85. 4	116. b	145. D	176. B
26. 1	56. 5	86. 2	117. d	146. A	177. B
27. 5	57. 1	87. 5	118. d	147. C	178. A
28. 2	58. 1	88. 3	119. a	148. A	179. B
29. 4	59. 5	89. 4	120. d	149. A	180. B
30. 5	60. 3	90. 3		150. C	B