

# TNPSC – GROUP IIA

## GENERAL STUDIES – 2017 (ENGLISH)

101. Which one of the following is correctly matched?
- |                  |   |            |
|------------------|---|------------|
| 1. Gregor Mendel | - | Neurospora |
| 2. T.H. Morgan   | - | Drosophila |
| 3. C.B. Bridges  | - | Garden pea |
| 4. J.H. Muller   | - | Mice       |
- (A) 1                      **(B) 2**                      (C) 3                      (D) 4
102. Factorization of  $(x + y)^2 + 9(x + y) + 8$  is
- (A)  $(x+y + 1)(x + y)$                       **(B)  $(x + y+1)(x + y + 8)$**   
 (C)  $(x + y + 1)(x + y + 6)$                       (D)  $(x + y + 8)(x + y + 2)$
103. What is the difference between the sum of first 'n' odd natural numbers and that of first 'n' natural numbers?
- (A)  $\frac{n}{2} + 1$                       **(B)  $\frac{n(n-1)}{2}$**   
 (C)  $\frac{n(n+1)}{2}$                       (D)  $\frac{n(n+1)(2n+1)}{6}$
104. Before E.V. Ramaswamy Vaikom Satyagraha was first started by three leaders. They were
- (A) T. Prakasam, T.K. Madhavan and K.P. Kesava Menon  
**(B) T.K. Madhavan, K.P. Kesava Menon and George Joseph**  
 (C) George Joseph, T. Prakasam and T.K. Madhavan  
 (D) K.P. Kesava Menon, T. Prakasam and George Joseph
105. Who was called 'The Father of Modern India'?
- (A) Ambedhkar                      (B) Periyar' E:V.R  
 (C) Gandhiji                      **(D) Rajaram Mohan Roy**
106. MRTP Act, 1969 has been repealed and replaced by the competition Act, 2002 with effect from
- (A) 2002                      **(B) 2009**                      (C) 2013                      (D) 2016
107. The basic objective of Gandhian plan brought out by S.N. Agarwala was
- (A) Agricultural development  
 (B) Growth of cottage and village industries  
 (C) To achieve equality  
**(D) To raise the material as well as the cultural level of Indian masses**
108. The last Deputy Chairman of Planning Commission of India was
- (A) Manmohan singh                      (B) Narendra Modi  
 (C) Arun Jaitley                      **(D) Montek Singh Ahluwalia**
109. In India, power of Judicial Review is restricted because the
- (A) Executive is supreme                      (B) Legislature is supreme  
**(C) Constitution is supreme**                      (D) Judges are transferable

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110. The government of India instituted Bharat Ratna and Padma Shri awards under  
 (A) Article 14 of the Indian constitution  
**(B) Article 18 of the Indian constitution**  
 (C) Article 25 of the Indian constitution  
 (D) Article 32 of the Indian constitution
111. Iron Lady of Manipur, Irom Sharmila got how many votes in the 2017 Manipur Assembly election?  
 (A) 10 votes (B) 30 votes  
 (C) 60 votes **(D) 90 votes**
112. Which district of Tamilnadu, Chief Minister announced new dental college from the year 2017?  
 (A) Chennai (B) Dharmapuri  
**(C) Virudhunagar** (D) Pudukottai
113. Which one of the following state government has shifted its financial year from [April 1 to March 31] to calendar year [January 1 to December 31]?  
 (A) Kerala **(B) Madhya Pradesh**  
 (C) Punjab (D) West Bengal
114. In Transmission Electron Microscope (TEM) \_\_\_\_\_ is used to magnify the objects.  
 (A) Light (B) Optical Lenses  
**(C) Electrons** (D) Scanner
115. The Respiratory quotient value for glucose is  
 (A) 0.5 **(B) 1.0** (C) 1.5 (D) 2.0
116. What percent of an hour is 36 seconds?  
 (A) 6% **(B) 1%** (C) 10% (D) 36%
117.  $\left(\frac{x^m}{x^n}\right)^{m+n}$   $\left(\frac{x^n}{x^l}\right)^{n+l}$   $\left(\frac{x^l}{x^m}\right)^{l+m}$  = .....
- (A) 1** (B) - 1 (C)  $x^{m+n+l}$  (D)  $\frac{1}{x^{m+n+l}}$
118. If the LCM of x and y is z , what is the H.C.F of x and y?  
**(A)  $\frac{xy}{z}$**  (B)  $\frac{xz}{xy}$  (C)  $\frac{yz}{x}$  (D) xy
119. The number of delegates who attended the first session of the Indian National Congress was  
 (A) 25 (B) 100 **(C) 72** (D) 2000

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120. The revolutionary nationalist Nelakanda Brahmachari was born at  
 (A) Thirunelveli (B) Madurai  
**(C) Sirkali** (D) Chennai
121. Mercury the smallest planet has only 88 earth days to orbit the sun, because  
 (A) Size of the planet (B) Spinning speed  
**(C) Distance from the sun** (D) It's thin atmosphere
122. Match the disasters with its type and pick the correct answers code :
- |                       |  |                           |  |  |
|-----------------------|--|---------------------------|--|--|
| (a) Blizzards         |  | 1. Hydrological disaster  |  |  |
| (b) Tsunamis          |  | 2. Health disaster        |  |  |
| (c) Nuclear accidents |  | 3. Atmospheric disaster   |  |  |
| (d) Pandemic          |  | 4. Anthropogenic disaster |  |  |
- |            |          |          |          |          |
|------------|----------|----------|----------|----------|
|            | (a)      | (b)      | (c)      | (d)      |
| (A)        | 2        | 1        | 4        | 3        |
| (B)        | 2        | 3        | 4        | 1        |
| (C)        | 3        | 1        | 2        | 4        |
| <b>(D)</b> | <b>3</b> | <b>1</b> | <b>4</b> | <b>2</b> |
123. The special status provided to Jammu and Kashmir under Art. 370 limits parliament to enact laws relating to  
**(A) List I and List -III of the Seventh Schedule**  
 (B) List I only of the Seventh Schedule .  
 (C) List-II only of the Seventh Schedule  
 (D) List I, II & III of the Seventh Schedule
124. The ideals of liberty, equality and fraternity enshrined in the preamble of the Constitution of India were adopted under inspiration from the  
 (A) American Declaration of Independence  
**(B) French Revolution**  
 (C) Russian Revolution  
 (D) UN Charter
125. Find out the total votes of the electoral college for the Indian Presidential Election, 2017.  
 (A) 11,00,346 votes **(B) 11,04,546 votes**  
 (C) 12,06,232 votes (D) 13,00,346 votes
126. Which one of the following is the objective of perspective plan 2023?  
**(A) Create Employment Opportunity**  
 (B) Digital Technology  
 (C) Award  
 (D) Reward
127. Projectile motion is a combination of horizontal motion with constant\_\_\_\_\_ and vertical motion with constant\_\_\_\_\_  
 (A) Acceleration, velocity **(B) Velocity, acceleration**  
 (C) Displacement, velocity (D) Velocity, displacement

# TNPSC – GROUP IIA

## GENERAL STUDIES – 2017 (ENGLISH)

128. Nuclear force is  
 (A) charge dependent  
 (B) spin independent  
 (C) both charge and  
**(D) spin independent in dependent but charge independent**
129. Tax is charged on some items which are manufactured in the country. This is collected by the Government of India. This Tax is  
 (A) Direct Tax (B) Indirect Tax  
**(C) Excise Duty** (D) Service Tax
130. The value of  $\frac{X^2-2X}{X^2+2X} \times \frac{3X+6}{X-2}$   
 (A) 3x (B) **3** (C) 3x + 2 (D) x – 2
131. Which of the following is arranged in correct ascending order?  
**(A) 25% of 8, 40% of 6, 30% of 9, 20% of 15**  
 (B) 20% of 15, 25% of 8, 30% of 9, 40% of 6  
 (C) 30% of 9, 40% of 6, 25% of 8, 20% of 15  
 (D) 20% of 15, 30% of 9, 40% of 6, 25% of 8
132. Which of the following is larger in area?  
 (A) A triangle with base 10 cm and height 8 cm  
 (B) A triangle with sides 12 cm, 5 cm and 13 cm  
**(C) An equilateral triangle whose sides are 10 cm each**  
 (D) A right angled triangle whose sides containing the right angle are 3 cm and 4 cm
133. Tambapanni is the old name of  
 (A) Tamil Nadu (B) Kerala (C) **Srilanka** (D) Karnataka
134. Name the journal which declared 'Swami Vivekanand the greatest figure in the Parliament'.  
 (A) Young India (B) Samachar Darpan  
 (C) Swadeshi Mitran **(D) New York Herald**
135. A scheme to provide Support to Training and Employment of Women (STEP) was launched in the year  
**(A) 1986 – 87** (B) 1990 - 91  
 (C) 1995 – 96 (D) 1996 – 97
136. Prime Minister of India inaugurated India's longest road bridge on May 26, 2017. Which states are connected by this bridge?  
**(A) Assam and Arunachal Pradesh**  
 (B) Assam and Manipur  
 (C) Assam and Thiripura  
 (D) Manipur and Thiripura

# TNPSC – GROUP IIA

## GENERAL STUDIES – 2017 (ENGLISH)

137. The first stage of the strategy related to Intensive Agricultural District Programme was started in the year  
 (A) 1951-52                      **(B) 1960-61**                      (C) 1965-66                      (D) 1990-91
138. Which of the following statements are correct with regard to Tamil Nadu 'Pudhu Vaazhvu Project'?  
 1. It was launched in 2005  
 2. It is aided by World Bank  
 3. The total outlay is Rs. 1,667 crores  
 4. It is being implemented in 26 districts  
**(A) All are correct statement**  
 (B) (1), (2), (3) are correct  
 (C) (2), (3), (4) are correct  
 (D) (1), (2) and (4) are correct
139. What percentage of total cultivation area in Tamilnadu is rainfed (Manavari)?  
 (A) 55%                      (B) 57%                      **(C) 54%**                      (D) 52%
140. Indian Neutrino Observatory is situated in which district of Tamilnadu?  
 (A) Madurai                      **(B) Theni**                      (C) Cuddalore                      (D) Chennai
141. Which one is wrongly matched pair in their characters?  
 (A) Pancreas - Glucagon  
 (B) Small intestine - Stomatostatin  
**(C) Testis - Estrogen**  
 (D) Adrenal gland - Glucocorticoids
142. Which of the following hormone stimulates contraction of uterine smooth muscle?  
 (A) Epinephrin                      (B) Insulin                      **(C) Oxytocin**                      (D) Glucagon
143. If A = +, B = , C = x and D = - then what is the value of  $\frac{1}{5}C2B\frac{1}{5}D\frac{1}{10}=?$   
**(A) 2.1**                      (B) 1.2                      (C) 2.5                      (D) 1.6
144. The value of  $\frac{x^3-1}{x+3} \div \frac{x^2+x+1}{3x+9}$   
 (A) 3x-1                      (B) 3(x+1)                      **(C) 3(x-1)**                      (D) 3x+2
145. Arrange the following in chronological order :  
 1. Senkuttuvan                      2. Emayavaramban  
 3. Kanaikal Irumporai                      4. Kuttuvan Cheral  
**(A) 2, 1, 4, 3**                      (B) 4, 2, 3, 1                      (C) 2,1,3,4                      (D) 3,2,4,1

# TNPSC – GROUP IIA

## GENERAL STUDIES – 2017 (ENGLISH)

146. In Chola kingdom the revenue department was called as  
 (A) Perumtharam (B) Utan Kuttam  
**(C) Puravuvuri** (D) Olai Nayagam
147. Despite the substantial improvement in health conditions of people in India, there has been certain negative trends due to  
 1. High incidence of HIV/AIDS in rural areas  
 2. High incidence of HIV/AIDS in urban areas  
 3. Growing incidence of Heart diseases and cancer in rural areas  
 4. Growing incidence of Heart diseases and cancer in urban areas  
 (A) All are correct (B) 1 and 3 correct  
**(C) 2 and 4 correct** (D) 1, 3 and 4 correct
148. Which one of the following is not correct related to the distinctions between the grants under Article 275 and Article 282 of the Constitution of India?  
 (A) The grants-in-aid under Article 275 are statutory whereas under Article 282 they are discretionary  
 (B) Under Article 282, the union has the power to provide grants-in-aid even for non-plan expenditure  
 (C) Under Article 275, the union has the right to give grants in accordance with the decision taken on the basis of recommendation of Finance Commission  
**(D) Allocation of Grants under Article 282 is based on the recommendation of Cabinet Committee**
149. When BSE's sensex has reached its maximum 30,000 - mark for the first time in the history?  
 (A) 26 December 2016 (B) 26 January 2017  
**(C) 26 April 2017** (D) 26 May 2017
150. The Indian Space Research Organisation (ISRO) successfully tested indigenously developed cryogenic engine on  
**(A) January 25, 2017** (B) January 30, 2017  
 (C) April 1, 2017 (D) March 30, 2017
151. The area of a semi-circle of radius 7 cm. is  
 (A) 7 cm<sup>2</sup> (B) 777 cm<sup>3</sup>  
**(C) 77 cm<sup>2</sup>** (D) 7777 cm<sup>2</sup>
152. The oxidation of  $SO_3^{2-}$  to  $SO_4^{2-}$  ion by oxygen  $SO_3^{2-} + O_2 \rightarrow SO_4^{2-}$ , in this reaction which is Lewis acid and Lewis base?  
**(A)  $SO_3^{2-}$  is Lewis acid and oxygen is Lewis base**  
 (B) Oxygen is Lewis acid and  $SO_3^{2-}$  is Lewis base  
 (C) Both are Lewis acids  
 (D) Both are Lewis bases



153. A boy is now twice as old as his sister, four years ago, he was thrice as old as her what are their ages now?  
 (A) 18, 9            (B) 14, 7            **(C) 16, 8**            (D) 12, 6
154.  $x^{3/2} : 9 = 16 : \sqrt{x}$ . What is the value of x?  
 (A)  $\pm 16$             (B)  $\pm 3$             (C)  $\pm 4$             **(D)  $\pm 12$**
155. The arithmetic mean of a group of 75 observations was calculated as 27. It was later found that one observation was wrongly read as 43 instead of the correct value 53. Obtain the correct arithmetic mean of the data.  
 (A) 26.13            **(B) 27.13**            (C) 28.13            (D) 25.13
156. A sum of money triples itself at 8% per annum over certain time. The number of years is equal to  
 (A) 24            **(B) 25**            (C) 20            (D) 12
157. Cultivable lands which has not been ploughed for between one and five years are called as  
 (A) Culturable waste            (B) Current fallows  
**(C) Other fallows**            (D) Permanent fallows
158. Tidal forests of Ganga-Brahmaputra delta, mainly consists of  
 (A) Rhododendrons            **(B) Hardwood palms**  
 (C) Laurels            (D) Junipers
160. In the rules of business of Indian Parliament, if the speaker admits, notice of a motion but no date is fixed for its introduction – then it is called  
 (A) Call attention motion  
 (B) Adjournment motion  
 (C) No confidence motion  
**(D) No day - Yet - named motion**
161. In India which organisation's scientists recently produced electricity from water without using energy?  
**(A) NPL, New Delhi**            (B) IISC, Bengaluru  
 (C) USER, Kolkata            (D) IIT, Chennai
162. In which place Prime Minister of India inaugurated the country's first Indian Institute of Skills [IIS] on Dec. 20, 2016?  
 (A) Ahmedabad            (B) Bengaluru  
**(C) Kanpur**            (D) Varanashi
163. A supernova is an exploding star. In which years the last two supernova are visible to the naked eye?  
 (A) 1600, 1980            (B) 1601, 1982            **(C) 1604, 1987**            (D) 1605, 1997

# TNPSC – GROUP IIA

## GENERAL STUDIES – 2017 (ENGLISH)

164. Calculate the dimensions of Planck's constant 'h', using the equation  $E = h\gamma$ , where  $E \rightarrow$  energy and  $\gamma \rightarrow$  frequency  
 (A)  $MLT^{-1}$  (B)  $ML^2 T^{-1}$   
 (C)  $ML^{-1} T^{-2}$  (D)  $ML^{-2} T^{-1}$
165. The cylinder whose base is not in circular form is called  
 (A) Circular cylinder (B) Right circular cylinder  
**(C) Oblique cylinder** (D) Irregular cylinder
166. 10 sq. m. is equal to  
 (A) 100 sq. cm. (B) 1000 sq. cm.  
**(C) 10000 sq. cm.** (D) **100000 sq. cm.**
167. Where the All India Muslim League was formed in 1906?  
 (A) Mumbai (B) Uttar Pradesh  
 (C) Chennai **(D) Dhaka**
168. When 'Swadeshi day' was celebrated in India?  
 (A) 27 May, 1932 (B) 28 May, 1932  
**(C) 29 May, 1932** (D) 30 May, 1932
169. What is the 85<sup>th</sup> term of the sequence  $x, x^{3/2}, x^2, x^{5/2}, \dots$ ?  
 (A)  $x^{85}$  (B)  $x^{45}$  **(C)  $x^{43}$**  (D)  $x^{44}$
170. The radius and the slant height of a cone are respectively 'r' and 'l'. What is the volume of the cone?  
**(A)  $\frac{1}{3}\pi r^2 \sqrt{l^2 - r^2}$**  (B)  $\frac{1}{3}\pi r^2 \sqrt{l^2 + r^2}$   
 (C)  $\pi r l$  (D)  $\pi r(l + r)$
171. Which one of the following matches is correct?  
 (a) Thyroid hormone 1. Cushing's disease  
 (b) Insulin 2. Myxedema  
 (c) Corticosteroids 3. Acromegaly  
 (d) Growth hormone 4. Diabetes
- | (a)          | (b)      | (c)      | (d)      |
|--------------|----------|----------|----------|
| (A) 1        | 2        | 3        | 4        |
| (B) 2        | 4        | 3        | 1        |
| (C) 4        | 2        | 1        | 3        |
| <b>(D) 2</b> | <b>4</b> | <b>1</b> | <b>3</b> |





# TNPSC – GROUP IIA

## GENERAL STUDIES – 2017 (ENGLISH)

(a)	(b)	(c)	(d)
(A) 3	4	1	2
(B) 2	1	4	3
(C) 4	3	1	2
<b>(D) 2</b>	<b>3</b>	<b>4</b>	<b>1</b>

180. Which is wrongly matched?  
 (A) Indo - European Family - Arya  
 (B) Austric Family - Nishada  
 (C) Dravidiano Family - Dravidian  
**(D) Sino - Tibetan Family – Munda**
181. \_\_\_\_\_ marked the beginning of census taking in India.  
 (A) The year 1862 **(B) The year 1872**  
 (C) The year 1882 (D) The year 1892
182. Constitutional status to the Panchayat Raj Institutions was initiated based on the recommendation of  
 (A) G.V.K. Rao Committee **(B) L.M. Singhvi Committee**  
 (C) Ashok Mehta Committee (D) Balwantray Mehta Committee
183. Which Article of the Constitution of India conferred special leave petitions power to the Supreme Court?  
**(A) Art. 136** (B) Art. 32 (C) Art. 139 (D) Art. 226
184. Which one of the organisation organised the Gyan Sangam [Knowledge Summit] in New Delhi on March, 2017?  
**(A) Prajna Parvah**  
 (B) Christian Education Society  
 (C) Students Islamic Movement of India  
 (D) Democratic Youth Federation of India
185. Which of the following aim comes under Prime Minister Krishan Sai Yojana?  
 (A) Environment **(B) To increase ground water**  
 (C) Cloth production (D) Free food
186. Which one of the organic pesticides that contain phosphorous?  
 (A) DDT (B) BHC  
 (C) 2, 4-D **(D) Parathion**
187. Match the following :  
 (a) Mixed fertilizer 1. DAP  
 (b) Complex fertilizer 2. NPK  
 (c) Bio fertilizer 3. Oil cake  
 (d) Organic nitrogen fertilizer 4. Algae

# TNPSC – GROUP IIA

## GENERAL STUDIES – 2017 (ENGLISH)

- | (a)          | (b)      | (c)      | (d)      |
|--------------|----------|----------|----------|
| (A) 1        | 2        | 3        | 4        |
| <b>(B) 2</b> | <b>1</b> | <b>4</b> | <b>3</b> |
| (C) 3        | 2        | 1        | 4        |
| (D) 4        | 3        | 2        | 1        |

188. A \_\_\_\_\_ is often drawn as a guide, so that a frequency polygon can be drawn over the top.
- (A) Frequency **(B) Histogram**  
 (C) Cumulative Frequency (D) Rectangle
189. If 100 persons can finish a work in 7 days, how many persons can finish the same work 35 days?
- (A) 20 persons** (B) 50 persons  
 (C) 30 persons (D) 25 persons
190. What is the 21st term of the sequence 100, 95, 90, 85.....?
- (A) 10 (B) 20 **(C) 0** (D) 5
191. Simplify:  $\frac{2x^4 - 162}{(x^2 + 9)(2x - 6)}$
- (A)  $x^2 + 9$  **(B)  $x + 3$**  (C)  $x + 6$  (D)  $x - 6$
192. Who was the first ruler in the Chola-Chalukya line?
- (A) Raja Raja II (B) Vikrama chola  
**(C) Kulothunga I** (D) Adhi Rajendran
193. The Vaikam Satyagraha arose in Kerala in the year
- (A) 1918 **(B) 1924** (C) 1913 (D) 1928
194. Periyar incorporated the ideas of the justice party and formed a new party called
- (A) Dravida Kazhagam**  
 (B) Dravida Munnetra Kazhagam  
 (C) Swantara party  
 (D) Anna Dravida Munnetra Kazhagam
195. Which one of the following changes was not called by the Gandhian model and growth in the Indian Planning System?
- (A) To replace production oriented planning with employment oriented planning  
**(B) To replace employment oriented planning with the production oriented planning**  
 (C) It is in favour of small scale and cottage industries  
 (D) It is against large scale industries producing consumer goods
196. The word 'Secularism' was inserted in the preamble of the constitution after supreme court of India observed 'Secularism' was a basic feature of constitution in
- (A) 1975 (B) 1973 **(C) 1976** (D) 1981

# TNPSC – GROUP IIA

## GENERAL STUDIES – 2017 (ENGLISH)

197. Which of the following objectives regarding Skill India Mission is incorrect?  
(A) Its objective is to achieve skilling of the youth across the country  
(B) Its aim is to remove financial constraints in accessing skill training programmes  
(C) Under the mission, loans from Rs. 50,000 to 1.5 lakh will be available to more the 34 lakh Youth of India  
**(D) The tagline of this mission is Kaushal Bharat**
198. Which country physicists created a new form of Hydrogen? (Negatively charged hydrogen cluster)  
(A) India **(B) Austria** (C) Australia (D) China
199. Kaviko Arakkattalai Award given to \_\_\_\_\_ during the year 2017.  
**(A) Poet Muthulingam** (B) Poet Vairamuthu  
(C) Poet Vali (D) Poet Vijay
200. What percentage of downtrodden students enrolment in private schools as per Right to Education Act?  
**(A) 25** (B) 26 (C) 27 (D) 28

