

# TNPSC – GROUP IIA

## GENERAL STUDIES (ENGLISH) - 2016

1. Which one of the following cells formed during gametogenesis is diploid?  
 (A) Primary polar body  
**(B) Spermatid**  
 (C) Spermatogonia  
 (D) Secondary polar body
2. Match Column I with Column II and III and choose the correct options :
- |               |   |  |
|---------------|---|--|
| Column I      | Column II   |  |
| 1. Typhoid    | (a) Haemophilus influenza                         |  |
|               | Column III  |  |
|               | (i) Chronic inflammation of the lymphatic vessels |  |
| 2. Pneumonia  | (b) Trichophyton                                  |  |
|               | (ii) Dry scaly lesions on the skin                |  |
| 3. Filariasis | (c) Salmonella typhi                              |  |
|               | (iii) Alveoli filled with fluid                   |  |
| 4. Ringworm   | (d) Wuchereri malayi                              |  |
|               | (iv) Intestinal perforations                      |  |
- (A) 1-c-iv; 2-a-ii; 3-b-i; 4-d-iii  
 (B) 1-c-iv; 2-b-ii; 3-a-iii; 4-d-i  
**(C) 1-c-iv; 2-a-iii; 3-b-i; 4-d-ii**  
 (D) 1-c-iv; 2-d-ii; 3-a-i; 4-d-iii
3. Which of the following statements on SAHAJ scheme is/are correct?  
 (1) SAHAJ will enable customers to post online request for a new LPG connection  
 (2) It was launched by the Finance Ministry  
 (3) Initially the scheme was launched in 22 cities across the country  
 (A) (1) only  
 (B) (1) and (2) only  
**(C) (2) and (3) only**  
 (D) (1) and (3) only
4. Bidhya Bhandari who elected as the first women President of Nepal in October 2015 belongs to  
**(A) Madeshi Jana Adhikar Forum**  
 (B) Communist party of Nepal  
 (C) Nepali Congress  
 (D) Rastriya Prajatantra party
5. Which Indian dynasty imposed a tax called “Patdam” on remarriage of widows?  
**(A) The Mughals**  
 (B) The Peshwas  
 (C) The Sambhuvarayas  
 (D) The Nayaks of Tanjore
6. Identify the Indian Political Leader who uttered the following opinion:  
 “Indians do not deserve freedom from British rule unless they themselves get rid off the evils of untouchability”?  
 (A) Bala Gangadhara Tilak  
 (B) Gopala Krishna Gokhale  
 (C) Mohandas Gandhi  
**(D) Dr.B.R. Ambedkar**
7. When was the state of Nagaland formed?  
**(A) 1961** (B) 1963  
 (C) 1965 (D) 1967
8. Which of the following schedule was inserted by the 74<sup>th</sup> Amendment Act?  
**(A) 12<sup>th</sup> Schedule** (B) 11<sup>th</sup> Schedule  
 (C) 13<sup>th</sup> Schedule (D) 10<sup>th</sup> Schedule
9. Which of the following Chief Justice of Supreme Court served as acting President of India?  
 (A) Justice Subha Rao  
 (B) Justice M. Hidayatullah  
**(C) Justice Y.V. Chandrachud**  
 (D) Justice P.N. Bhagwati
10. Who among the following stayed away without taking part in 1857 Revolt?  
 1. Sindhia  
 2. Holkar  
 3. Gaekwar  
 4. Nizam  
 (A) 1, 2 and 4 only  
**(B) 1, 2, 3 and 4**  
 (C) 2, 3 and 4 only (D) 1 and 4 only
11. Who presided over the Karachi Session of Indian National Congress in 1931?  
 (A) Sardar Vallabhbhai Patel  
**(B) Gandhi**  
 (C) Lala Lajpat Rai  
 (D) Annie Besant
12. First pipe can fill a tank in 12 hours. Second pipe can fill the same tank in 6 hours. Third pipe in 4 hours. How long will it take to fill the tank if all the 3 pipes are opened simultaneously?  
**(A) 2 hrs.** (B) 3 hrs.  
 (C) 4 hrs. (D) 12 hrs.

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13. If  $x^2 + 4y^2 = 4xy$ , then  $x : y$  is  
**(A) 2 : 1** (B) 1 : 2  
 (C) 1 : 1 (D) 1 : 4
14. Find the incorrect statement(s) from the following  
 (i) 2, 4, 5 trichlorophenoxy acetic acid is a herbicide  
 (ii) Thallium compounds are fumigants  
 (iii) Organo phosphorus insecticides inhibit cholinesterase  
 (iv) Organo chlorine insecticides are stomach poisons  
 (A) (i) and (iii) only  
 (B) (ii) and (iii) only  
**(C) (ii) and (iv) only**  
 (D) (iii) and (iv) only
15. Turpentine is obtained from  
**(A) Pinus roxburghii**  
 (B) Welwitschia mirabilis  
 (C) Ginkgo biloba  
 (D) Cycas revolute
16. Match the following :  
 Tamil Nadu Government Awards for 2015
- |                     |                               |
|---------------------|-------------------------------|
| (a) Tamilthai award | (i) Poet Piraisudan           |
| (b) Kabilar award   | (ii) K. Selvan                |
| (c) V.O.G. award    | (iii) New Mumbai Tamil Sangam |
| (d) Kambar award    | (iv) M. Balasubramanian       |
- (A) a-iii b-i c-iv d-ii  
 (B) a-ii b-iii c-i d-iv  
 (C) a-i b-ii c-iii d-iv  
**(D) a-iii b-iv c-i d-ii**
17. Consider the following statement, choose the correct answer from the codes given below :  
 Assertion (A) : The Romans had trade contact with Tamil country and nearly 6 lakhs gold coins were transacted which led to the economic drain of the country.  
 Reason (R) : Roman Trade declined after the death of Nero in 68 B.C.
- (A) (A) alone is correct (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 but (R) is not the correct explanation of (A)**
18. Complete the following statement with appropriate choices and select the correct option:  
 The State Information Commissioner shall be appointed by the Governor on the recommendation of a committee consisting of  
 1. The Chief Minister  
 2. The leader of opposition in the legislative assembly  
 3. A Cabinet Minister, nominated by the Chief Minister  
 4. The Chief Justice of the High Court  
 (A) 1 and 2 only (B) 1, 2 and 4 only  
**(C) 1, 2 and 3 only** (D) 1, 3 and 4 only
19. When was supreme court of India inaugurated?  
**(A) Jan 26, 1950** (B) Jan 28, 1950  
 (C) Feb 28, 1950 (D) April 26, 1950
20. Which one of the following finance commission prescribed the devolution of tax revenue to states on the net proceeds of all central taxes?  
**(A) 8<sup>th</sup> finance commission**  
 (B) 11<sup>th</sup> finance commission  
 (C) 10<sup>th</sup> finance commission  
 (D) 9<sup>th</sup> finance commission
21. Which Indian Constitutional Amendment Act on Panchayat Raj mentions under clause I 1/3 of the seats were to be allotted to women belonging to SC's and ST's  
**(A) 73<sup>rd</sup> Amendment**  
 (B) 74<sup>th</sup> Amendment  
 (C) 75<sup>th</sup> Amendment  
 (D) 76<sup>th</sup> Amendment
22. Find out the odd number in the series given  
 25, 36, 49, 81, 121, 169, 225  
 (A) 36 **(B) 49**  
 (C) 169 (D) 225

# TNPSC – GROUP IIA

## GENERAL STUDIES (ENGLISH) - 2016

23. A can do a certain job in 12 days. B is 60% more efficient than A. How many days does B alone take to do the same job?  
 (A) 6 days (B) 7 ½ days  
**(C) 8 days** (D) 8 ½ days
24. Select the pair, which are dimensionally alike among the following  
 I. Product of force and time  
 II. Product of momentum and time  
 III. Product of Ariel velocity and linear density  
 IV. Product of work and time  
**(A) I and II only** (B) II and III only  
 (C) III and IV only (D) I and III only
25. Arrange the following in the increasing order of their penetration powers  
 I. Alpha rays  
 II. Beta particles  
 III. Gamma rays  
 (A) I – II – III (B) II – I – III  
 (C) II – III – I **(D) III – II – I**
26. Identify the writer who won the prestigious Man Booker Prize for fiction, 2015?  
 (A) Tom McCarthy  
 (B) Marlon James  
 (C) Sunjeev Sahota  
**(D) Anne Tyler**
27. Which of the following mountains of North America has been renamed as Denali?  
 (A) Mount Elbert  
 (B) Mount Mitchell  
**(C) Mount McKinley**  
 (D) Mount Whitney
28. The first BRICS migration conference in October 2015 was held at  
**(A) Sochi, Russia**  
 (B) Beijing, China  
 (C) New Delhi, India  
 (D) Riyadh, Saudi Arabia
29. Which organisation's 73<sup>rd</sup> foundation day is being observed on 26<sup>th</sup> September 2015?  
 (A) ICAR (B) ISRO  
**(C) CSIR** (D) NIO
30. The part of the earth's interior which is known as Asthenosphere is  
 (A) SIMA **(B) Upper Mantle**  
 (C) Lower Mantle (D) Outer core
31. The river which is said to be the lifeline of Sikkim is  
 (A) Manas (B) Lohit  
 (C) Sankosh **(D) Tista**
32. Consider the following statements with reference to the Indo Soviet Treaty in 1971. Which of the statements given below is/are correct :  
 I. This treaty was signed for 20 years  
 II. This treaty was concluded on August 9, 1971 by Soviet Foreign Minister Gromyko and India's Minister of External Affairs Sardar Swaran Singh  
 III. A former congress President K.Kamaraj said, "It would not only consolidate the friendship between the two countries but also help the cause of peace in Asia and the world"  
 (A) I only (B) I and II only  
 (C) II only **(D) I, II and III only**
33. If  $a : b = 6 : 7$  and  $b : c = 8 : 9$  then  $a : c$  is equal to?  
**(A) 16 : 21** (B) 6 : 9  
 (C) 27 : 28 (D) 1 : 2
34. Mean of 25 observations was found to be 78.4. But later it was found that 96 was mis-read as 69. Then the corrected mean is  
**(A) 79.48** (B) 76.54  
 (C) 81.32 (D) 78.4
35. Find the next alphabet in the sequence B, E, I, N,?  
 (A) U (B) V  
 (C) T **(D) S**
36. In 1868, the National Income estimate Committee of India was headed by  
 (A) V.K.R.V. Rao  
 (B) Shah & Khambatt  
**(C) Dadabhoy Naoroji**  
 (D) W.C. Peterson

# TNPSC – GROUP IIA

## GENERAL STUDIES (ENGLISH) - 2016

37. Bharat Nirman was started to unlock the development potential of  
 (A) Indian Bond Market  
 (B) Public Sector undertakings  
 (C) Urban India  
**(D) Rural India**
38. When did the unique identification authority of India generate the first Aadhar card?  
 (A) 29<sup>th</sup> Aug. 2009 **(B) 26<sup>th</sup> Sep. 2011**  
 (C) 29<sup>th</sup> Sep. 2010 (D) 25<sup>th</sup> Oct. 2010
39. A sum of Rs. 1,550 was lent partly at 5% and partly at 8% per annum at simple interest. The total interest received after 3 years was Rs. 300. The ratio of the money lent at 5% to that lent at 8% is  
 (A) 5 : 8 (B) 8 : 5  
**(C) 16 : 15** (D) 31 : 6
40. A sum of Rs. 800 amounts to Rs. 920 in 3 years at a simple interest. If the interest rate is increased by 3%. What would Rs. 800 amount to?  
 (A) 950 (B) 970  
**(C) 992** (D) 1000
41. In human, Prothrombin required for blood clotting is synthesized in the  
**(A) Spleen** (B) Stomach  
 (C) Liver (D) Thymus
42. Match List I with List II and select the correct option given below :
- | List I                | List II               |
|-----------------------|-----------------------|
| (a) Simmond's disease | (i) Thyroid gland     |
| (b) Diabetes mellitus | (ii) Adrenal gland    |
| (c) Cushing's disease | (iii) Pituitary gland |
| (d) Myxoedema         | (iv) Pancreas         |
- (A) a-iii, b-iv, c-i, d-ii  
 (B) a-ii, b-iv, c-i, d-iii  
 (C) a-iii, b-iv, c-ii, d-i  
**(D) a-ii, b-iv, c-iii, d-i**
43. Who has been appointed as the first male member of National commission for women?  
**(A) Alok Rawat** (B) Bilal Nazki  
 (C) Reva Khetrapal (D) Krishna Sahu
44. When was the first World Antibiotic Awareness week observed?  
 (A) 16 November to 22 November 2015  
**(B) 5 November to 11 November 2015**  
 (C) 22 November to 28 November 2015  
 (D) 18 November to 24 November 2015
45. The country which promulgated its New Constitution in 2015 is  
 (A) Sri Lanka (B) Bhutan  
 (C) Fiji **(D) Nepal**
46. Match the following and choose the correct option :
- |           | (a) | (b) | (c)                  | (d) |
|-----------|-----|-----|----------------------|-----|
| (a) Flute |     |     | 1. Ali Akbar Khan    |     |
| (b) Tabla |     |     | 2. Nishat Khan       |     |
| (c) Sitar |     |     | 3. Zakir Hussain     |     |
| (d) Sarod |     |     | 4. Rajendra Prasanna |     |
- (A) 4 3 2 1  
**(B) 4 3 1 2**  
 (C) 3 4 1 2  
 (D) 1 2 3 4
47. Who nominates the Chairman of the Public Accounts Committee of the Indian Parliament?  
 (A) The Prime Minister  
**(B) The speaker of the house of people**  
 (C) Minister of Parliament Affairs  
 (D) Committee of Parliamentary Affairs
48. Which Article empowers the President to summon and prorogue either Houses of Parliament  
 (A) Article 75 (B) Article 81  
**(C) Article 85** (D) Article 88
49. Match the following and choose the correct option :
- |                   | (a) | (b) | (c)                         | (d) |
|-------------------|-----|-----|-----------------------------|-----|
| (a) K.R. Iyengar  |     |     | 1. Vaikom Satyagraha        |     |
| (b) Kelappan      |     |     | 2. Hindu Mahasabha          |     |
| (c) M.R. Masani   |     |     | 3. Madras Mahajan Sabha     |     |
| (d) M.M. Malaviya |     |     | 4. Congress Socialist Party |     |
- (A) 1 3 2 4  
 (B) 2 1 4 3  
**(C) 3 1 4 2**  
 (D) 4 3 1 2

# TNPSC – GROUP IIA

## GENERAL STUDIES (ENGLISH) - 2016

50. A sum of Rs. 53 is divided among ABC in such a way that A gets Rs. 7 more than what B gets and B gets Rs. 8 more than what C gets. The ratio of their share is  
 (A) 16 : 9 : 18 (B) 25 : 18 : 10  
 (C) 18 : 25 : 10 (D) 15 : 8 : 30
51. A cone, a hemisphere and a cylinder stand on equal bases and have the same height. Find the ratio of their volumes  
 (A) 3 : 2 : 1 (B) 1 : 2 : 3  
 (C) 3 : 1 : 2 (D) 1 : 3 : 2
52. Match correctly the following Lists 1, 2 and 3 :
- |                                   |                                |  |
|-----------------------------------|--------------------------------|--|
| List 1                            | List 2                         |  |
| (I) Ammonia                       | (a) White solid                |  |
| List 3                            |                                |  |
| (i) Rocket fuel                   |                                |  |
| (II) Basic reducing agent         | (b) Hydrazine                  |  |
| (ii) Haber's process              |                                |  |
| (III) Explosive                   | (c) Colourless volatile gas    |  |
| (iii) Hydrazoic acid              |                                |  |
| (IV) Hydroxylamine                | (d) Colourless volatile Liquid |  |
| (iv) Oxidising and reducing agent |                                |  |
- (A) I-B-iii II-C-iv III-d-ii IV-a-i  
 (B) I-B-i II-C-iii III-d-ii IV-a-iv  
 (C) I-B-iv II-C-ii III-d-i IV-a-iii  
**(D) I-B-ii II-C-i III-d-iii IV-a-iv**
53. With reference to Tamilnadu, Nisha : 2008 is similar as P : 2015. Then P points out to  
 (A) BOBO9 (B) Madi  
 (C) HudHud (D) Roanu
54. Which gene was identified recently by scientists of India as primarily responsible for obesity among Indians?  
 (A) THCM8B (B) THFG6C  
 (C) THKR8E (D) THSD7A
55. India's first dedicated multi wavelength space observatory for astronomy research, launched on 28<sup>th</sup> September 2015 is  
 (A) GSAT – 6 (B) GSAT – 15  
**(C) GSAT – 16** (D) ASTROSAT
56. The planet which has the fastest orbital motion is  
**(A) Mercury** (B) Venus  
 (C) Earth (D) Mars
57. The mountain which is known as 'horst' is  
 (A) Fold mountain  
 (B) Block mountain  
**(C) Volcanic mountain**  
 (D) Residual mountain
58. Largest area in the ocean floor is occupied by  
**(A) Continental shelf** (B) Continental slope  
 (C) Deep sea plain (D) Ocean deeps
59. Arrange the following in ascending order of their formation :  
 I. Planning Commission  
 II. Zonal Councils  
 III. National Integration Council  
 IV. National Development council  
 (A) I – II – III – IV  
 (B) I – IV – III – II  
**(C) I – IV – II – III**  
 (D) I – III – IV – II
60. Match the following and choose the correct one :  
 (a) Integrated Child Development Services 1. 2002  
 (b) National Rural Health Mission 2. 1975  
 (c) National Health Policy 3. 1986  
 (d) National Policy on education 4. 2005
61. If  $\sqrt{784} + x = 78\%$  of 500, then the value of x is  
 (A) 342 (B) 352  
**(C) 362** (D) 372
62. Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case  
 (A) 4 (B) 7  
 (C) 9 **(D) 13**

# TNPSC – GROUP IIA

## GENERAL STUDIES (ENGLISH) - 2016

63. Find the missing letters in the series AZ, GT, MN, ? ?, YB

- (A) JH (B) SH  
(C) SK (D) TS

(a) (b) (c) (d)

- (A) 1 3 4 2  
(B) 4 3 2 1  
(C) 3 4 1 2  
(D) 2 4 1 3

64. Match List 1 with List 2 and answer through the codes given below :

List 1

List 2

- |                           |   |
|---------------------------|---|
| (a) Infrared spectrometer | 1. Measures the purity of sugar         |
| (b) Polarimeter           | 2. Test aeroplane surfaces under stress |
| (c) Barometer             | 3. Study of molecular structure         |
| (d) Strain gauge          | 4. Measure atmospheric pressure         |

(a) (b) (c) (d)

- (A) 2 4 1 3  
(B) 2 3 4 1  
(C) 3 1 4 2  
(D) 4 3 1 2

65. The first Indian woman who conquered the 7077 m high Mount Kun of the Himalayas is

- (A) K.S. Sudhi (B) Rini Mukkath  
(C) G.R. Radhika (D) Soumya Das

66. Which Indian state recently hosted the first global conference on gender equality?

- (A) Madhya Pradesh (B) Kerala  
(C) Karnataka (D) West Bengal

67. India will chair the Prestigious G-20 forum in the year

- (A) 2016 (B) 2017  
(C) 2018 (D) 2019

68. Match the recipients of Arjuna Awards for the year 2014-2015 with their games:

- |                    |                   |
|--------------------|-------------------|
| (a) Sandeep Kumar  | 1. Shooting       |
| (b) Sathish Kumar  | 2. Boxing         |
| (c) Mandeep Jangra | 3. Weight lifting |
| (d) Jitu Rai       | 4. Archery        |

69. Match List I with List II and choose the correct answer from the codes given below :

List I

List II

- |                                     |         |
|-------------------------------------|---------|
| (a) Bombay Railway station          | 1. 1873 |
| (b) Royapuram Railway station       | 2. 1908 |
| (c) Chennai Central Railway station | 3. 1853 |
| (d) Egmore Railway station          | 4. 1856 |

(a) (b) (c) (d)

- (A) 3 4 1 2  
(B) 3 2 4 1  
(C) 4 1 2 3  
(D) 2 3 1 4

70. Match the following and select the correct answer :

- |  |   |
|--|---|
| (a) Nirmal Bharat Abiyon                     | 1. Rural Roads  |
| (b) Pradhan Mantri Gram Sadak Yojana         | 2. To provide minimum basic Infrastructure to all habitations |
| (c) Rural infrastructure Scheme              | 3. Rural Sanitation   |
| (d) Tamil Nadu Habitation Improvement scheme | 4. To stabilise the assets created Under MGNREGS              |

(a) (b) (c) (d)

- (A) 3 1 4 2  
(B) 1 3 2 4  
(C) 4 1 3 2  
(D) 2 4 1 3

71. At what rate of compound interest per annum will a sum of Rs. 1,200 become Rs. 1348.32 in 2 years

- (A) 6% (B) 6.5% (C) 7% (D) 7.5%

# TNPSC – GROUP IIA

## GENERAL STUDIES (ENGLISH) - 2016

72. Seven men working 9 hours a day can do a piece of work in 30 days. In how many days will 10 men working for 7 hours a day do the same work?  
 (A) 28 days (B) 30 days  
 (C) 32 days **(D) 27 days**
73. If  $5 \oplus 3 = 34$  and  $6 \oplus 2 = 40$  then, the value of  $7 \oplus 1$  is  
 (A) 54 (B) 34  
**(C) 50** (D) 30
74. How much time will it take for an amount ₹2,000 to double at a simple interest rate 8%  
 (A)  $25\frac{1}{2}$  years (B)  $10\frac{1}{2}$  years  
 (C)  $8\frac{1}{2}$  years **(D)  $12\frac{1}{2}$  years**
75. The length of a rectangle is increased by 60%. By what percent would the width have to be decreased so as to maintain the same area  
**(A)  $37\frac{1}{2}\%$**  (B) 60%  
 (C) 75% (D) 120%
76. Fructose-6-Phosphate is also known as  
**(A) Newberg ester**  
 (B) Harden ester  
 (C) Young ester  
 (D) Paranas ester
77. Match List I with List II and select the correct answer using the codes given below the Lists :
- | List I                        | List II      |
|-------------------------------|--------------|
| (a) Fatty substance           | 1. Pectins   |
| (b) Manufacture of ink        | 2. Suberin   |
| (c) Nitrogenous waste product | 3. Tannins   |
| (d) Fruit jellies             | 4. Alkaloids |
- (a) (b) (c) (d)
- (A) 1 3 4 2  
 (B) 3 4 2 1  
 (C) 2 3 4 1  
 (D) 2 4 1 3
78. In which of the following tennis tournaments in 2015, Sania Mirza and Martina Higgins pair did not win the women's doubles championship?  
 (A) Miami open (B) French open  
**(C) US open** (D) Wimbledon
79. In September 2015, Tamil Nadu's largest solar plant was commissioned at  
 (A) Minjur (Tiruvallur Dist.)  
 (B) Rajakkamangalam (Kanyakumari Dist.)  
**(C) Vinnandhur (Namakkal Dist.)**  
 (D) Sengottai (Verudhunagar Dist.)
80. Which of the following were the liquid measurements used by the imperial cholas?  
 (A) Ma, Kuzhi  
 (B) Kalanju, Madai  
**(C) Nali, Uri**  
 (D) Tuni, Padakku
81. Pick out the wrong statement about Rabindranath Tagore  
 (I) He founded Shantiniketan (now Viswabharati university) in Bengal  
 (II) He is the first Asian to receive Nobel prize in 1915  
 (III) His works are 'post office' and 'Gora'  
 (IV) He is the writer of National Anthems of India and Srilanka  
 (A) I only **(B) II only**  
 (C) I and III only (D) II and IV only
82. Arrange the following committees in chronological order  
 1. Gorwala Committee  
 2. Ayyangar Committee  
 3. Appleby Report  
 4. Administrative Reforms Commission  
 (A) 1-3-2-4 (B) 2-3-1-4  
**(C) 2-1-3-4** (D) 3-1-2-4

# TNPSC – GROUP IIA

## GENERAL STUDIES (ENGLISH) - 2016

83. When did the Constituent Assembly for undivided India meet for the first time?  
**(A) 9<sup>th</sup> November, 1946**  
 (B) 9<sup>th</sup> December, 1946  
 (C) 9<sup>th</sup> October, 1946  
 (D) 9<sup>th</sup> September, 1946
84. Who was the President of All India State People Conference during 1946-1947?  
 (A) Sardar Vallabhai Patel  
 (B) Pandit Jawaharlal Nehru  
 (C) Dr. Rajendra Prasad  
**(D) V.P. Menon**
85. Which among the following is not related to the Aligarh Movement?  
 I. Providing modern education to Indian Muslims  
 II. Reform of Muslim society  
 III. Bringing Indian Muslim close to Modernism  
 IV. Awakening of Nationalism among Indian Muslims  
 (A) I (B) II  
 (C) III **(D) IV**
86. Murali's present age is half of his father's age. Before 10 years, his father's age was thrice his age. Find the present age of Murali and his father.  
 (A) 16, 32 years (B) 15, 30 years  
**(C) 20, 40 years** (D) 17, 34 years
87. Find the length of the altitude of an equilateral triangle of side  $3\sqrt{3}$  cm  
 (A) 27 cm (B)  $9\sqrt{3}$  cm  
 (C) 9 cm **(D) 4.5 cm**
88. Identify the particle physicist through the clues given below  
 1. He won the Nobel Prize in physics for the year 2013 along with Francois Englert  
 2. He won the Royal Society's Copley medal on 20, July 2015  
 (A) Franck Wikzek  
 (B) Peter. W. Higgs  
**(C) Stephen Hawkings**  
 (D) Joseph Taylor
89. Find out the values of a, b, c and d in the following equation  

$$IO_3^- + aI^- + bH^+ \rightarrow cH_2O + dI_2$$
  
 (A) a = 3, b = 2, c = 1, d = 1  
**(B) a = 5, b = 6, c = 3, d = 3**  
 (C) a = 5, b = 6, c = 3, d = 6  
 (D) a = 10, b = 12, c = 6, d = 6
90. Find the pH of a buffer solution containing 0.20 mole per litre sodium acetate and 0.15 mole per litre acetic acid given that dissociation constant of acetic acid is  $1.8 \times 10^{-5}$   
 (A) 5.8697 (B) 5.1303  
 (C) 4.1303 **(D) 4.8697**
91. Match the names of the books in List I with the authors in List II :
- | List I  | List II               |
|---|-----------------------|
| (a) Dreaming Big : My journey to connect India      | 1. Nandan Nilekani    |
| (b) Advantage India : From Challenge to opportunity | 2. A.S. Dulat         |
| (c) Rebooting Government                            | 3. Sam Pitroda        |
| (d) Kashmir : The Vajpayee years                    | 4. A.P.J. Abdul Kalam |
- |     |              |          |          |          |
|-----|--------------|----------|----------|----------|
|     | (a)          | (b)      | (c)      | (d)      |
| (A) | 1            | 3        | 4        | 2        |
| (B) | 3            | 4        | 1        | 2        |
| (C) | 2            | 3        | 1        | 4        |
|     | <b>(D) 4</b> | <b>3</b> | <b>2</b> | <b>1</b> |
92. Match the given hill stations with the states in which they are located :
- | Hill Stations | States               |
|---------------|----------------------|
| (a) Araku     | 1. Jammu and Kashmir |
| (b) Gulmarg   | 2. Himachal Pradesh  |
| (c) Kulu      | 3. Meghalaya         |
| (d) Shillong  | 4. Andhra Pradesh    |



# TNPSC – GROUP IIA

## GENERAL STUDIES (ENGLISH) - 2016

- |  |   |
|--|---|
| <p>(a) (b) (c) (d)</p> <p>(A) 4 2 1 3</p> <p><b>(B) 4 1 2 3</b></p> <p>(C) 2 1 3 4</p> <p>(D) 2 3 1 4</p> <p>93. Who headed steering committee of Constituent Assembly?</p> <p><b>(A) Jawaharlal Nehru</b></p> <p>(B) K.M. Munshi</p> <p>(C) H.C. Mookherjee</p> <p>(D) Rajendra Prasad</p> <p>94. Which article of Indian Constitution deals with Right to Elementary Education?</p> <p>(A) Article 20 (a)</p> <p><b>(B) Article 21 (a)</b></p> <p>(C) Article 22 (a)</p> <p>(D) Article 21</p> <p>95. Which one of the following was not identified under the Basic Minimum Services (BMS) programme of the Ninth Five Year Plan?</p> <p>(A) Provision of safe drinking water</p> <p>(B) Universalisation of Primary education</p> <p><b>(C) Development of renewable sources of energy</b></p> <p>(D) Availability of primary health facilities</p> <p>96. The Statistical Indicator of equitable distribution of Income is</p> <p>(A) National Income</p> <p><b>(B) Per Capita Income</b></p> <p>(C) Gini Coefficient</p> <p>(D) Disposable Personal Income</p> <p>97. If <math>5^a = 6</math> ; <math>6^b = 7</math> ; <math>7^c = 5</math>, then find the value of abc.</p> <p>(A) 0</p> <p>(B) - 1</p> <p>(C) 2</p> <p><b>(D) 1</b></p> | <p>98. The value of <math>\sqrt{x\sqrt{y\sqrt{z\sqrt{a}}}}</math> is</p> <p>(A) <math>\sqrt{a^{xyz}}</math></p> <p><b>(C) <math>\sqrt{a^{xyz}}</math></b></p> <p>(B) <math>\sqrt{a^{xy}}</math></p> <p>(D) <math>\sqrt{a^{yz}}</math></p> <p>99. Six bells commence tolling together, afterwards they toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?</p> <p>(A) 4</p> <p>(B) 10</p> <p>(C) 15</p> <p><b>(D) 16</b></p> <p>100. If <math>\frac{a}{b} = \frac{4}{5}</math> and <math>\frac{b}{c} = \frac{15}{16}</math> then, the value of <math>\frac{c^2 - a^2}{c^2 + a^2}</math> is</p> <p><b>(A) <math>\frac{1}{7}</math></b></p> <p>(B) <math>\frac{7}{25}</math></p> <p>(C) <math>\frac{3}{4}</math></p> <p>(D) <math>\frac{1}{4}</math></p> |
|--|---|