

Tnpsc Model Question Paper 11 – General Studies in English

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1. Which of the following statements are true about Judicial Review?

- i. The doctrine of judicial review originated and developed in the U.K.
 - ii. The constitution of India confers the power of judicial review on the judiciary.
 - iii. The power of judicial review cannot be curtailed even by a constitutional amendment.
- (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

2. Which of the following statement with respect to the Indian President's power is/are correct?

- i. Money bills can be introduced in the Parliament only with his prior recommendation.
 - ii. When the financial stability or credit of the nation is threatened, the President can declare the financial emergency.
 - iii. The President is not answerable before any court of law for exercising the powers and duties of his office.
 - iv. The administration of Union Territories is the responsibility of the President
- (a) i, iii and iv only (b) ii and iii correct (c) I and ii only (d) **i, ii, iii and iv correct.**

3. Which of the following statements are true about fundamental duties?

- i. Fundamental duties are laid down in Article 51-A of the Constitution.
 - ii. 86th amendment Act, 2002 added 11th fundamental duty to the list.
 - iii. To develop scientific temper is not a fundamental duty.
- (a) i only (b) ii and iii only (c) **i and ii only** (d) i and iii only

4. "Kitab-I-Nauras" is a collection of the poems of

- (a) **Ibrahim Adil Shah-II** (b) Ahmad-II (c) Tajud-Di Firuz (d) Muhammad-II

5. Buddhist poet Asvaghosa wrote "Buddha Charia" in ----- language.

- (a) Prakrit (b) Pali (c) Urdu (d) **Sanskrit**

6. "The Cultural Development is characterised by intellectual, aesthetic and spiritual attainments" Who said the above statement?

- (a) J.S.Mill (b) **S.M.Fairchild** (c) Max Weber (d) Tansen

7. Choose the incorrect match:

- i. Suba-Sipahsalar.
 - ii. Sarkar-Fauidar
 - iii. Pargana-Shiqdar.
 - iv. Village-Bakshi
- (a) i and ii only (b) ii only (c) iii and iv only (d) **iv only**

8. Match List-I with List-II and select the correct answer:

List-I (Place)			List-II (Excavated by)	
a. Chandhudharo			1. Aurel Stein	
b. Kulli			2. J.P.Joshi	
c. Rakhigarhi			3. Majumdar	
d. Dholavira			4. Amrendranath	
	a	b	c	d
(a)	2	1	3	4
(b)	3	1	2	4
(c)	3	1	4	2

(d) 4 3 1 2

9. Choose the right answer among type:

Which of the following statements are true about Eleventh Five Year plan of India?

- i. The main focus of this plan was towards faster and more inclusive growth.
- ii. This plan stresses that benefits of development should reach all sections of population.
- iii. Increased rice production in the eastern part of the country.

(a) i only (b) i and iii only (c) **i and ii only** (d) ii and iii only

10. The largest west flowing river of peninsular India is

(a) Mahi (b) Sabarmati (c) **Narmada** (d) Luni

11. Two exactly similar wires are stretched by the same load. Their elasticities are in the ration 5 : 3. The ratio of their elongations are

(a) **3 : 5** (b) 5 : 3 (c) 9 : 25 (d) 25 : 9

12. Human blood grouping was discovered by

(a) **Landsteiner** (b) Punett (c) Correns (d) Muller

13. In the collective model of the nucleus, the shape of nuclear core is

(a) **Non-Spherical** (b) Spherical (c) Semi-Spherical (d) Circular

14. Assertion (A): Science is complex, Abstract and multi faceted discipline.

Reason (R): Scientific knowledge is concrete theoretical and synthetic.

(a) **(A) is true, but (R) is false**

(b) Both (A) and (R) are true, and (R) is the correct explanation of (A)

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

(d) Both (A) and (R) are true, but (R) is not the correct explanation of (A)

15. Match the following:

- | | |
|--------------------|--|
| a. Apospory | 1. Development of a sporophyte directly from the gametophyte |
| b. Apogamy | 2. Fruit formation without fertilization of ovules |
| c. Parthenocarpy | 3. Development of an embryo from an unfertilized egg cell |
| d. Parthenogenesis | 4. Development of gametophytes directly from the sporophyte |

	a	b	c	d
a.	2	3	4	1
b.	1	3	4	2
c.	4	1	2	3
d.	2	4	1	3

16. Which of the following are correctly paired?

- 1. Kaprekar-Astrophysicist
- 2. Janaki Ammal-Biologist.
- 3. Debashis Mukherjee-Chemistry.
- 4. Meghnad Saha-Mathematician.

(a) 1 and 4 are correct (b) 1 and 2 are correct
(c) 2 and 4 are correct (d) **2 and 3 are correct**

17. World Youth skills day is celebrated on:

(a) March, 15 (b) May, 15 (c) August, 15 (d) **July, 15**

18. The first Indian male Badminton player to win a silver medal under men's singles in the world Badminton Championship was

(a) Kidambi Srikanth (b) Parupalli Kashyap (c) Sai Praneeth (d) Pullela Gopichand

19. Arrange the following in descending order of amount receipt in budget estimates 2022-23:

i. State excise.

ii. Stamps and registration fees.

iii. Motor vehicles tax

(a) i, ii, iii (b) **ii, i, iii** (c) iii, i, ii (d) iii, ii, i

20. Which of the following statements are correct?

i. The nominal GSDP growth of TN is estimated to be 14.0 percent in 2022-23.

ii. In the TN budget estimate 2022-23, the fiscal deficit is estimated at 3.63 percent of GSDP.

iii. The outstanding debt as a percentage of GSDP is expected to be 27.76 percent in 2022-23

(a) i only (b) ii only (c) **i, ii and iii** (d) ii and iii

21. Which of the following is NOT a feature of the joint family system?

(a) Authoritarian Structure (b) Familistic organisation

(c) **Individualistic identity** (d) Depth of Generations.

22. Tamilnadu housing board and Tamilnadu urban habitat development board were created in

(a) **1961 and 1970** (b) 1951 and 1960 (c) 1970 and 1960 (d) 1960 and 1951

23. Which of the following statement is/are true of Free Drop Back Service Janani Sishu Suraksha Kariyakaram (JSSK)?

i. JSSK started as a pilot project in Tamil Nadu by TNHSP.

ii. Drop back vehicle can transport mother with babies upto one year

(a) only I (b) only ii (c) **Both i and ii are true** (d) Both i and ii are false

24. Virdhunagar Sankaralinganar, involved in an indefinite hunger strike to rename the Madras State as Tamil Nadu and died during

(a) 1956 July (b) **1956 October** (c) 1965 July (d) 1965 October

25. Who was the author of the book "Oppressed Hindus?"

(a) M.Palaniswamy (b) R.Veeraiyan (c) P.V.Subramanian (d) **M.C.Rajah**

26. Which one of the following is not the achievement of Justice Party Rule?

(a) Passing Communal GO of 1921 and 1922 (b) Creating Public Service Commission

(c) Granting Voting Rights to women (d) **Non-Cooperation Movement**

27. Which of the following journal is not associated with Subramaniya Bharathi?

(a) A New Daily (b) Vijaya (c) India (d) **New India**

28. Who are the ones who brave the FATE?

"Oozhaiyum uppakkam kaanpavar"

– Yaar?

(a) Learned (b) Young people (c) **Deligent people** (d) Lazy people

29. What Thiruvalluvar says are the qualities of an Ambassador?

(a) Knowledge, Origin, Education

(b) Love, Knowledge, Clarity of speech

(c) Duty, Knowing the fitting time, Knowing the place

(d) **Purity, Resources, courage**

30. What is the meaning conveyed through the word "extinguish?"

With ghee **extinguish** fire!

It will prove harder by scandal to **extinguish** love.

- (a) Life (b) **Put out** (c) System (d) Expertise

31. Which moral text is exclaimed as "Velaan Vedham?"

- (a) Thirukkural (b) Asarakovai (c) Proverbs (d) **Naladiyaar**

32. In which excavation site Sir. Mortimer Wheeler used scientific and soil layer method?

- (a) Pallavaram (b) Attirampakkam (c) **Arikkamedu** (d) Kaayal

33. Match the correct one:

	Party			Founder
a.	Swatantra Party			1. Sohan Singh Bhakna
b.	Gadar party			2. Motilal Nehr
c.	Swaraj Party			3. C.Raja Gopalachari
d.	Forward Bloc Party			4. Subash Chandra Bose
	a	b	c	d
a.	1	2	3	4
b.	2	1	4	3
c.	1	3	4	2
d.	3	1	2	4

34. When the Government of India had decided to appoint a oneman commission of Inquiry to inquire into the circumstances of the disappearance of Netaji Subhas Chandra Bose. In 1945 -----'s name was recommended by the then Chief Justice of India.

- (a) Srinivasavaradhan (b) K.K.Roy (c) D.K.Roy (d) **G.D.Khosla**

35. Muhammadan Literary and Scientific Society of Calcutta was organised by

- (a) Amir Ali (b) Dudhu Miyan (c) **Abdul Latif** (d) Shariatullah

36. The objective of Tenancy reform is

- (a) **Abolition of Intermediaries** (b) Increase Rural Literacy
(c) Regulation of Money Leanders (d) Eradication of Rural Indebtedness

37. Which one of the following is the function of the Finance Commission of India?

- i. Allocation of the shares of net proceeds of taxes.
ii. Laying down principles governing grants-in-aid.
iii. Looking into the financial relation between the centre and the state
(a) i and ii (b) **i, ii and iii** (c) i and iii (d) ii and iii

38. Match correctly the common name with the Genus name of nematode parasites:

a.	Ancylostoma			1. Whip worm
b.	Enterobius			2. Hook worm
c.	Wuchereria			3. Pin worm
d.	Trichuris			4. Filarial worm
	a	b	c	d
a.	1	3	4	2
b.	2	3	4	1
c.	3	4	2	1
d.	2	1	4	3

39. 2 P J @ 8 \$ L B 1 V # Q 6 9 GW 9 K C D 3 © . £ 5 F R 7 A Y 4 P @ L is Y 7 5 in the same way as \$ 1 # is to

- (a) R £ © (b) F £ 3 (c) F , 3 (d) 5 . D

40. If x means \div , - means \times , \div means + and + means - , what is the value of $(3-115\div 19)\times 8+6?$

- (a) 8 (b) 4 (c) 2 (d) -1

41. Which number replaces the question mark for the following numbers?

2	7	17
3	11	19
5	13	?

- (a) 21 (b) 23 (c) 25 (d) 27

42. Find the volume of water tank measured 10 m x 5 m x 1.5 m.

- (a) 75 litre (b) 750 litre (c) 7500 litre (d) 75000 litre

43. An aluminium sphere of radius 12 cm is melted to make a cylinder of radius 8 cm. Find the height of the cylinder.

- (a) 24 cm (b) 30 cm (c) 36 cm (d) 40 cm

44. Which among the following is the simple interest for the principal of Rs.1, 000 for one year at the rate of 10% interest per annum?

- (a) Rs.700 (b) Rs.500 (c) Rs.150 (d) Rs.100

45. If the simple interest at the rate of x % per annum, for x years, is Rs. X, then the principal amount is

- (a) Rs.x (b) Rs.(100/x) (c) Rs. 100x (d) Rs.100/x²

46. If $2x + 3y : 3x + 5y = 18 : 29$ then x : y is

- (a) 4 : 3 (b) 3 : 4 (c) 2 : 3 (d) 3 : 5

47. If $5 : 6 = x : 12$. Then the value of x is

- (a) 10 (b) 6 (c) 12 (d) 5

48. What is the greatest possible volume of a vessel that can be used to measure exactly the volume of milk in cans (in full capacity) of 80 litres, 100 litres and 120 litres?

- (a) 20 litres (b) 25 litres (c) 30 litres (d) 40 litres

49. Find the HCF of a^3-9ax^2 , $(a-3x)^2$

- (a) (a^2-9x^2) (b) $(a-3x)^2$ (c) (a^3-9ax^2) (d) $(a-3x)$

50. Kumar borrowed Rs.52, 000 from a money lender at a particular rate of simple interest. After 4 years, he paid Rs.79, 040 to settle his debt. At what rate of interest, he borrowed the money?

- (a) 12% (b) 13% (c) 15% (d) 11%

51. Match the following:

Subject	Year
a. Commission of Inquiry Act	1. 1968
b. Central Civil Services (Conduct) Rules	2. 1850
c. Public Servants (Enquiries) Act	3. 1964
d. All India Service (Conduct) Rules	4. 1952

	a	b	c	d
a.	1	2	3	4

- b. 4 3 2 1
 c. 4 2 1 3
 d. 3 1 2 4

52. Which of the following is/are correct about Cantonment Board?

- i. It is delimited area where the military forces and permanently stationed.
 ii. It does not work under the administrative control of the Defence Ministry.
 iii. They are grouped into three categories

(a) **i only correct** (b) i and ii are correct (c) i and iii are correct (d) iii only correct

53. Which Constitutional Amendment inserted Article 43B for promotion of Co-operative Societies?

- (a) 42nd Amendment 1976 (b) 44th Amendment, 1978
 (c) 86th Amendment, 2002 (d) **97th Amendment, 2011**

54. Which one of the following fundamental rights has been wrongly listed?

- (a) Right to Equality (b) Right to Constitutional Remedies
 (c) **Right to Exploitation** (d) Right to Freedom

55. Which among the following was not a nomenclature for "Union Territory" previously?

- (a) Scheduled districts (b) Chief Commissioner's Provinces
 (c) Part C and Part D States (d) **Peculiar Central Enclaves**

56. Choose the right answer/answers about the Supreme Court of India

- i. The Supreme Court is the Upholder of the Constitution of India.
 ii. The Judges of the Supreme Court hold office till the age of Seventy-two.
 iii. The Indian Judicial system consists of a single hierarchy of Courts.
 iv. The Supreme Court of India was constituted on January, 1950.

(a) i and ii only (b) ii only (c) iii and iv only (d) **i, iii and iv only**

57. Match the following:

- a. Senji 1. Stala durga
 b. Anaimalai 2. Vana durga
 c. Vellore 3. Giri durga
 d. Panchalankurichi 4. Jala durga

- | | a | b | c | d |
|----|----------|----------|----------|----------|
| a. | 2 | 3 | 4 | 1 |
| b. | 3 | 2 | 1 | 4 |
| c. | 3 | 2 | 4 | 1 |
| d. | 4 | 3 | 2 | 1 |

58. Sikandar Lodi was responsible for the foundation of the ----- city in 1504 A.D

- (a) Dholpur (b) Gwalior (c) Etawah (d) **Agra**

59. The concentration Index was calculated by

- i. Total population and total cultivable area in terms of persons per km².
 ii. Dividing actual population of the district by the average population of a district.
 iii. Total population be correlated to the land area weighted according to its productivity.

(a) i and ii only (b) **ii only** (c) ii and iii only (d) iii only

60. Match the following:

- a. Tropical Evergreen 1. Thorny Bushes
 b. Tropical Deciduous 2. Tidal Forests
 c. Semi Desert 3. Tropical Rain Forest

d. Mangrove

4. Monsoon Forest

	a	b	c	d
a.	3	4	1	2
b.	4	3	2	1
c.	2	1	3	4
d.	4	2	3	2

61. Which of the following statements are true about the location and extent of India?

- i. India is divided into almost two equal halves by tropic of cancer.
- ii. India is the second largest country of the world in area.
- iii. The latitude and longitudinal extend is nearly thirty degrees.
- iv. The standard meridian of India passes through Bhopal.

(a) ii and iii only (b) i, ii and iv only (c) **i and iii only** (d) i, iii and iv only

62. Assertion (A) : High density lipoproteins transport cholesterol from peripheral tissues to the liver.
Reason (R) : The elevation of lipids in plasma leads to the deposition of cholesterol on the arterial walls, leading to atherosclerosis.

- (a) (A) is false but (R) is true.
- (b) Both (A) and (R) are true, and (R) is the correct explanation of (A)
- (c) (A) is true but (R) is false.
- (d) **Both (A) and (R) are true, but (R) is not the correct explanation of (A)**

63. Choose the stronger acid in each of the following pair.

- i. H_3O^+ or H_3O .
- ii. NH_4^+ or NH_3 .
- iii. H_2S or HS^- .
- iv. H_2O or OH^-

- (a) **H_3O^+ , NH_4^+ , H_2S , H_2O**
- (b) H_2O , NH_3 , HS^- , OH^-
- (c) H_3O^+ , NH_3 , HS^- , H_2O
- (d) H_2O , NH_4^+ , H_2S , OH^-

64. The interaction of biotic potential with environmental resources, as seen in populations showing the S-Shaped growth curve, as:

$\frac{dN}{dt} = rN(N-K)/K$ where N is the number of individuals in the population, t is the time, r is the biotic potential of the organism concerned and K stands for

- (a) **Carrying capacity**
- (b) Maximum population size
- (c) Particular habitat
- (d) Biomass

65. Consider the following statements:

Assertion (A): Simorgh (phoenix) launched two satellites.

Reason (R) : It is a satellite carrier rocket.

Now select your answer scheme given below:

- (a) Both are true,
- (b) Both are false
- (c) **(A) is false and (R) is true**
- (d) (A) is true and (R) is false

66. Virtual G20 digital Economy Ministers Summit 2020 was organised by

- (a) **Saudi Arabia**
- (b) Iran
- (c) Iraq
- (d) Kuwait

67. Where is the largest solar power project of India located?

- (a) **Rajasthan**
- (b) Karnataka
- (c) Andhra Pradesh
- (d) Gujarat

68. Justice. D.Murugesan Committee has been constituted in 2021 to look into the matter of

- (a) Reservation for Government school students in Tamil Nadu Police Service.
- (b) Resevation in Public Sector Units.

(c) Enrolment ratio of Government school students in Professional Courses

(d) NEET Examination

69. Read the following passage and answer the item that follow. Your answers to this item should be based on this passage only.

PASSAGE.

Education management information system has been brought online wherein the database of every school, teacher and students in Government, Government aided and private schools are maintained on real time basis. Using this information several tasks are automated, simplified and reported everyday.

Which one of the following is best implied in the passage?

(a) Government has control over school.

(b) It helps government in taking well informed policy decision.

(c) Different stakeholders are involved in the system.

(d) It is beneficial to the school authorities and students.

70. Choose the correct answer:

Given the situation due to COVID-19, the net borrowing ceiling of the states were enhanced to ----- of GSDP in 2021.

(a) 4 Percent

(b) 3.5 Percent

(c) 5 Percent

(d) 6 Percent

71. Which article of the Constitution states that the state to secure a social order for the promotion of welfare of the people?

(a) Article 38

(b) Article 39

(c) Article 37

(d) Article 36

72. Which of the following is/are true?

i. Reformation may be identified with partial changes in the value system and consequential changes in the quality of relationships.

ii. Transformative changes are characterized with radical changes in the total system.

(a) i only

(b) ii only

(c) i and ii

(d) None of the above

73. According to the Niti Aayog's health inde (2021), -----, ----- and ----- emerged as the top three states in India.

(a) Uttar Pradesh, Assam and Punjab

(b) Kerala, Tamil Nadu and Telangana

(c) Andhra Pradesh, Maharashtra and Gujarat

(d) Punjab, Karnataka and Haryana

74. Arrange the following territorial conquests of Alauddin Khilji in the correct chronological order:

i. Ranthambor.

ii. Malwa.

iii. Chittor.

iv. Gujarat

(a) iv, i, iii, ii

(b) i, iii, iv, ii

(c) i, ii, iii, iv

(d) iv, iii, ii, i

75. Name the first woman who have been jailed for Salt Satyagraha in Madras Presidency?

(a) Rukmini Lakshmipathi

(b) Durgabai

(c) Satyawati

(d) Swaroop Rani

76. According to the Kural;

"Gnalam Karuthinum Kaikoodum"

When a man wants to conquer the world what are the two things he should keep in mind?

i. Wealth and Bravery/courage.

ii. Time and Place.

(a) i only

(b) ii only

(c) i and ii

(d) None of the above

77. "Thirukkural and Kaban's Epic would suffice to build a new civilization even if the present one is completely erased".

Who said this?

- (a) Caldwell (b) G.U.Pope (c) Veeramamunivar (d) Ellis

78. During the "Later Chola period", "Trayili" was associated with

- (a) Tax free land (b) Taxed land
(c) Tax levied on temple land (d) Tax levied on leasing land

79. Consider the following statements:

- i. The partition of Bengal in 1905 was the most striking example of the British divide and rule policy.
- ii. In the Calcutta meeting 1905 Surendranath Banerjee gave a call for the boycott of British goods and institutions.
- iii. On 7th August 1905 at Town Hall meeting in Calcutta, a formal proclamation of Swadeshi movement was made.

Which of the statements given above is/are correct?

- (a) I only (b) i and iii only (c) i and ii only (d) i, ii and iii are correct

80. Second Round Table conference of 1931:

1. It was held during the reign of Lord Wellington as the viceroy of India.
2. It was represented by Gandhi on behalf of INC. (Indian National Congress).

Which of the above statement is/are correct?

- (a) 1 only correct (b) 2 only correct (c) Both 1 and 2 correct (d) Neither 1 nor 2

81. Alluvial soil is rich in

- (a) Humus, Phosphoric acid, Lime and Organic matter
(b) Iron, Lime, Calcium, Potash, Aluminium and Magnesium Carbonates.
(c) Iron and Aluminium
(d) Highly Saline and rich in organic matter

82. Assertion (A) : V.O.Chidambaram established the Swadeshi Steam Navigation company.

Reason (R) : He wanted to oppose the monopoly of the British in Navigation through the coast.

- (a) (A) and (R) are true and (R) is the correct explanation of (A)
(b) (A) and (R) are true and (R) is not the correct explanation of (A)
(c) (A) is correct and (R) is wrong.
(d) (A) is wrong and (R) is correct

83. Chapter V of Part V of the constitution provides for a high officer of the Parliament who would exercise vigilance over the expenditure of public money. He is -----

- (a) Comptroller and Auditor General of India (b) Finance Minister
(c) Auditor General (d) Prime Minister

84. Which article says that "No child below the age of 14 years shall be employed to work in any factory or in any hazardous employment"?

- (a) Article 27 (b) Article 26 (c) Article 24 (d) Article 25

85. Boothalingam study group is related to

- (a) Trade Unions (b) Strikes (c) Lockouts (d) Wages

86. Which of the following is not the role of NITI Aayog?

- i. Act as a think tank.
- ii. Power to impose policies on states.

iii. Funds allocation.

- (a) i only (b) i and ii (c) **ii and iii** (d) i and iii

87. Principles of scientific thinking are:

i. Empiricism.

ii. Rationalism.

iii. Skepticism.

- (a) I only (b) ii only (c) I and ii only (d) **i, ii and iii**

88. How many terms of the series $1^3+2^3+3^3+ \dots$ should be taken to get the sum 1296?

- (a) 6 (b) 7 (c) **8** (d) 9

89. Find the value of $\sqrt{3\sqrt{3\sqrt{3}\dots}}$

- (a) **3^1** (b) 3^2 (c) 3^3 (d) 3^4

90. The average mark of 25 students was found to be 78.4 Later on, it was found that score of 96 was misread as 69. Find the correct mean of the marks.

- (a) 77.32 (b) **79.48** (c) 79.84 (d) 97.84

91. If 5 persons can do 5 jobs in 5 days then how many days will it take for 50 persons to finish 50 jobs?

- (a) **5** (b) 7 (c) 9 (d) 11

92. A reader reads 20 pages of a book in 2 hours in an uniform speed. How much time will it take to read 50 pages of the same book in the same speed?

- (a) 3 hours (b) 4 hours (c) **5 hours** (d) 4 ½ Hours

93. The difference between the S.I. and C.I. for 2 years for a principal of Rs.5, 000 at the rate of interest 8% p.a. is

- (a) **Rs.32** (b) Rs.35 (c) Rs.38 (d) Rs.42

94. The compound interest on Rs.5, 000 at 12% p.a. for 2 years compounded annually is

- (a) Rs.1, 072 (b) Rs.1, 172 (c) **Rs.1, 272** (d) Rs.1, 372

95. At what rate of simple interest, the principle Rs. 48, 000 will amount to Rs.55, 560 in 2 years 3 months.

- (a) 5% (b) 6% (c) **7%** (d) 8%

96. Find the ration of 3 km to 300 m?

- (a) 3 : 10 (b) 10 : 3 (c) 1 : 10 (d) **10 : 1**

97. If the population in town has increased from 20, 000 to 25, 000 in a year find the percentage increase in population.

- (a) 50% (b) **25%** (c) 75% (d) 100%

98. If three candidates A, B and C in a school election got 153, 245 and 102 votes respectively, find the percentage of votes got by the winner?

- (a) 48% (b) **49%** (c) 50% (d) 55%

99. HCF and LCM of two numbers are 16 and 240 respectively. If one of the number is 48, then the other number is

- (a) **80** (b) 60 (c) 70 (d) 90

100. Wilson, Mathan, Guna can complete one round of a circular track in 10, 15 and 20 minutes respectively. If they start together at 7 am from the starting point at what time will they meet together again at the starting point?

(a) 8 am

(b) 8 pm

(c) 5 pm

(d) 9 am

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