

1. The largest train route in India (spanning 4154) km through 8 states) between Kanyakumari to Dibrugarh, is covered by which of the following?
 - (a) Vivek Express
 - (b) Vande Bharat Express
 - (c) Rajdhani Express
 - (d) Durgam Express
2. The World Book of Records in London has recognized as 'the largest tulip garden of Asia' – which of the following?
 - (a) Nishat Bagh
 - (b) Rock garden
 - (c) Auroville Botanical Garden
 - (d) Indira Gandhi Memorial Tulip Garden
3. The largest contributor to Foreign Direct Investment in India, in the financial year 2023 (as per RBI's Annual Report 2022 – 23) is:
 - (a) Japan
 - (b) Singapore
 - (c) China
 - (d) France
4. What is the purpose of Graded Response Action Plan (GRAP)?
 1. To make significant developments for tiger conservation efforts in India.
 2. To combat sudden seasonal decline of air quality in NCR and adjoining areas
 Select correct answer using the code given below:
 - (a) 1 only
 - (b) 2 only
 - (c) both 1 and 2
 - (d) neither 1 nor 2
5. According to Global Live Ability Index 2023 report, which city of the world ranks as the most live able city globally?
 - (a) Vienna
 - (b) London
 - (c) Copenhagen
 - (d) Warsaw
6. The name of first female astronaut from Saudi Arabia to go to space is:
 - (a) Anousheh Ansari
 - (b) Abida Sultan
 - (c) Rayyanah Barnawi
 - (d) Zeenat Haroon Rasheed
7. The 50th anniversary of the World Environment Day (June 5) was recently celebrated at:
 - (a) Netherlands
 - (b) Ivory Coast
 - (c) Greenland
 - (d) Gold Coast
8. Consider the following pairs:

Persons	Award
1. Angela Merkel	UNESCO Peace Prize
2. Dr Manmohan Singh	Lifetime Achievement Award
3. V . Karthikeyan Pandian	FIH's President's award 2023
4. Deepak Chopra	Golden Book Awards

 Which of these pairs are correctly matched?
 Select the correct answer by using the code given below:
 - (a) 1 and 2 only
 - (b) 2, 3 and 4 only
 - (c) 1, 3 and 4 only
 - (d) 1, 2, 3, 4
9. How many cities are targeted to become 3 Star Garbage Free, by October 2024?
 - (a) 2000
 - (b) 1000
 - (c) 3000
 - (d) 4000
10. Consider the following pairs:

Country	Event
1. Indonesia	U – 17 World Cup
2. Uganda	Tulsi Ghat Restoration Project
3. Iran	To host Football's 2027 Asian Cup

 Which of these pairs given above is/ are correctly matched? Select your answer from the code given below:
 - (a) 1 and 2
 - (b) 2 only
 - (c) 1 and 3
 - (d) 3 only
11. Which amongst the following – does not figure in the "17 Goals" adopted by all UN Member States in 2015 – as part of 2030 Agenda for sustainable development?
 - (a) Zero Hunger
 - (b) Elimination of terrorism
 - (c) Gender Equality
 - (d) Quality Education
12. In December 2022, Forbes released a list of World's Most Powerful Women, in which the Union Finance Minister Nirmala Sitaraman is ranked:
 - (a) 77
 - (b) 53
 - (c) 67
 - (d) 36
13. "Mo Jungle Jami Yojna" (My Forest land Scheme) has recently been proposed by the government of

- (a) West Bengal (b) Madhya Pradesh (c) Uttarakhand (d) Odisha
14. Sonam Wangchuk has been a winner of which of the following Awards recently?
 (a) Malcolm Adiseshiah Award
 (b) Santokbaa Humanitarian Award
 (c) 1st ASI Govind Swarup Life Time Achievement Award
 (d) Saraswati Samman
15. Which of the following is an important pre- historic site?
 (a) Langhnaj (b) Bhimbetka (c) Chirki (d) Talwara
16. Megasthenes's work is known as
 (a) Historica (b) Periplus of Erythrean Sea
 (c) Indica (d) Memoirs
17. The God Shiva evolved from which Rigveda God?
 (a) Rudra (b) Indra (c) Agni (d) Varun
18. Those who came to India from the Turkish speaking regions of Central Asia were known as
 (a) Iranis (b) Turanis (c) Afghanis (d) Sheikhdadas
19. Which ruler was the first to understand the measurement of land in the Delhi Sultanate ?
 (a) Allaudin Khilji (b) Ghiasuddin Tuglaq (c) Feroz Tuglaq (d) Sikander Ludhi
20. Which historian has attributed the decline of the Mughal Empire to an Agrarian crisis?
 (a) Satish Chandra (b) M. Athar Ali (c) Irfan Habib (d) Muzaffar Alam
21. The 'Iqta' system was a unique type of land distribution and administrative system introduced during the reign of
 (a) Qutb- ud - din Aibak (b) Ibrahim Lodhi (c) Iltutmish (d) Razia Sultana
22. 'Muqaddam' was a
 (a) Revenue collector of a Paragana
 (b) Record- keeper of a Paragana
 (c) Village Accountant
 (d) Village Headman
23. The grant of 'Diwani' in 1765 gave the East India Company the right to collect revenue in
 (a) Bengale and Bihar (b) Bihar and Orissa
 (c) Orissa and Bengal (d) Bengal, Bihar and Odisha
24. Five notable 'Odisha' poets emerged during which two centuries
 (a) Late 15th and early 16th century
 (b) Late 16th and early 17th century
 (c) Late 14th and early 15th century
 (d) Late 13th and early 14th century
25. Who wrote the book "The Economic History of India", in two volumes?
 (a) Dada Bhai Naoroji (b) R.P. Dutt (c) Bipan Chandra (d) R. C. Dutt
26. Partition of Bengal was formally announced in 1905, and implemented on
 (a) 19th July 1905 (b) 16th October 1905
 (c) 19th June 1905 (d) 16th November 1905
27. Who gave the slogan "Tum Mujhe Khoon Do Mai Tumhe Azadi Doonga"?
 (a) B.G. Tilak (b) Chandra Shekhar Azad
 (c) Subhash Chandra Bose (d) Bhagat Singh
28. Who was the Chairman of the Punjab Boundary Commission in 1947?
 (a) Lord Attle (b) Lord Mount
 (c) Lord Ismay (d) Lord Cyril Radcliffe
29. Consider the following Pairs.
 1. Detroit of India Chennai
 2. Paris of India Jaipur
 3. Ruhr of India Madurai
 4. Athens of India Durgapur
 (a) Only One (b) Only Two (c) Only three (d) All four

30. In Odisha, Gold reserves are discovered
1. On the bank of the Ib river, Sundergarh District
 2. On the bank of the Kolab River, Koraput district
 3. In Tikira river bed, Angul district
- (a) 1 and 2 only (b) 1 and 3 only (c) 2 and 3 only (d) All three
31. With reference to the culture of Odisha, consider the following statements.
1. Patachitra and Pothichitra are creative arts
 2. Chhau, Mahari and Gotipua are dance forms
 3. Saora, Sahara and Sabar are tribal groups
- (a) 1 only (b) 1 and 3 only (c) 2 and 3 only (d) All three
32. Consider the following names concerning the architects of Modern Odisha.
1. Sri, Utkal Gaurav Madhusundan Das
 2. Sri. Harekrishna Mahatab
 3. Sri. Bijayananda Patnaik
- Which of the above statement(s) is/ are correct?
- (a) 1 only (b) 1 and 3 only (c) 2 and 3 only (d) All three
33. During El Nino period, the temperature rises rapidly along the coast of
1. Peru and Ecuador
 2. Spain and France
 3. Australia and Indonesia
 4. China and Japan
- Which of the above statement (s) is/are correct?
- (a) 1 only (b) 1 and 3 only (c) 2 and 3 only (d) All three
34. With reference to the National multi- dimensional poverty Index (UNDP report), consider the following statements.
1. The rural areas in India witnessed the fastest decline in poverty, from 32.59% (2015-16) to 19.28% (2019- 21)
 2. 135 million people escaped multidimensional poverty between 2015-16 and 2019 - 21 India.
- Which of the above statements are correct?
- (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2
35. With reference to the SDG Index 2023 and the performance of India and its progress, consider the following statements.
1. Sustainable development goal ten and fifteen are showing the declining trend.
 2. Sustainable development goal 11 and 13 progress are stagnating
- Which of the above statements are correct?
- (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2
36. Given below are two statements related to Indian population. Select your answer from the codes given below.
- Statement - 1:
From 2020, India's annual growth rate of population is less than one percentage.
- Statement - 2:
With 17.76% of Population share, India ranks number one in the world.
- Which one of the following is correct in respect of the above statements ?
- (a) Both Statement 1 and 2 are correct and statement 2 is correct explanation of Statement 1
 (b) Both Statement 1 and 2 are correct and statement 2 is not correct explanation of Statement 1
 (c) Statement 1 is correct and statement 2 is incorrect
 (d) Statement 2 is correct and statement 1 is incorrect
37. Consider the following pairs:
- | | |
|-----------------|------------------|
| 1. Chilika | Salt water lake |
| 2. Anshupa | Fresh water lake |
| 3. Sambhar Lakd | Salt water lake |
| 4. Kanjia lake | Fresh water lake |

How many of the above pairs are correctly matched?

- (a) Only one (b) One and Three (c) Two and Four (d) All four

38. Consider the following pairs.

1. Dolapwnima – Dance form
2. Bhitichitra – Festival
3. Ghumura – Mural
4. Kakara Peetha – cunsine

How many of the above pairs are correctly matched?

- (a) Only one (b) One and Three (c) Two and Four (d) All four

39. Consider the following statements about Odisha:

1. Odisha was known under different names in different periods: Kalinga, Utkal or Odradesha.
2. The "Gobardhan Pitha" of Puri was one of the most significant monasteries in India.
3. The coastal plain of Odisha is called the "Pentadeltaic region"

Which of the above statement is/are correct?

- (a) 1 only (b) 1 and 2 only (c) 2 and 3 only (d) All three

40. Given below are two statements related to mineral wealth of Odisha.

Statement - 1:

The chromite, nickel, bauxite, iron ore and coal resources of the state respectively stand at a staggering 83, 92, 55, 38 and 26 percent of India's total reserves.

Statement - 2:

Precambrian metamorphic rocks, Mesozoic rocks of Gondwana Super Group and the Archaean rocks host the major mineral resources of the state.

Which one of the following is correct in respect of the above statements?

- (a) Both statement 1 and 2 are correct in statement 2 is the correct explanation of Statement 1
 (b) Both Statement 1 and 2 are correct and statement 2 is not correct explanation of Statement 1
 (c) Statement 1 is correct and statement 2 is incorrect
 (d) Statement 2 is correct and statement 1 is incorrect

41. Consider the following statements about the river Indus.

1. It flows through only one state in India.
2. It flows between the Ladakh Range and the Karakoram range.
3. It originates from Rakesha Tal near Mansarovar.
4. The Viboa River is one of its Himalayan Tributaries.

Which of the above statements is/are not correct

- (a) Only one (b) One and Three (c) Two and Four (d) All four

42. Arrange the following cyclonic disturbances based on increasing intensity and strength of wind.

1. Depression
2. Low Pressure Area
3. Super Cyclonic Storm.
4. Cyclonic Strom
5. Very Severe Cyclonic Storm

Choose the correct sequence from the options given below:

- (a) 3, 2, 1, 5 and 4 (b) 4, 2, 1, 3 and 5 (c) 1, 2, 3, 4 and 5 (d) 2, 1, 4, 5 and 3

43. Which of the following statement are not correct in respect of Part - B States in India?

1. These States were governed by Chief COMmissiononers.
2. There was an elected Legislature in each State
3. There were 10 States in Part - B States
4. The Seventh Constitutional Amendment Act removed the distinction between Part - A and Part - B States.

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

44. Which of the following statements are nor correct in respect of 'Sources of Indian Constitution'?

Item	Source
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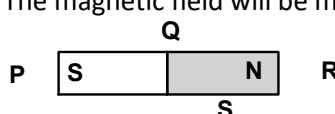
1. Nomination of Members to Rajya Sabha British Constitution
2. Advisory Jurisdiction of Supreme Court Canada Constitution
3. Joint sitting of both Houses of Parliament Australia Constitution
4. Emergency Provisions relating to suspension of Fundamental Rights Government of India Act of 1935
- (a) 1 and 3 (b) 1 and 4 (c) 2 and 3 (d) 2 and 4
45. Which of the following statements are correct in respect of 'Procedure established by Law' and 'Due process of Law'?
- 'Due Process of Law' is borrowed from USA constitution
 - 'Procedure established by Law' is borrowed from Japan Constitution
 - Under 'Due Process of Law' the Court checks the Law only to the extent that it has been framed by following the correct procedure and does not go into its reasonableness or fairness.
 - Under 'Procedure established by Law' the Court checks the Law whether it is just, fair and reasonable. If not it can be invalidated.
- (a) 1 and 2 (b) 2 and 3 (c) 3 and 4 (d) 1 and 4
46. Match the following Political Parties with their years of Birth:
- | Name of Political Party | Year of Birth |
|---------------------------------|---------------|
| 1. Aam Admi Party | (A) 1998 |
| 2. Bharatiya Janata Party | (B) 2012 |
| 3. All India Trinamool Congress | (C) 2002 |
| 4. Naga Peoples Front | (D) 1980 |
- (a) 1-(C), 2-(D), 3- (A), 4- (B) (b) 1-(D), 2- (A), 3-(C), 4-(B)
- (c) 1-(B), 2- (D) ,3-(A), 4-(C) (d) 1-(C), 2- (B), 3- (A), 4- (D)
47. Which of the following statements are not correct in respect of Comptroller and Auditor General (C & AG) of India?
- The Office of (C & AG) of India is dealt in Art 138 to 141 of Indian Constitution
 - The C & AG of India is the statutory Auditor of Lok Pal.
 - The Reports of C & AG of India are discussed by Public Accounts Committee
 - In 1971 the C & AG of India was relieved from Accounting functions
- (a) 1 and 3 (b) 2 and 3 (c) 2 and 4 (d) 1 and 4
48. Which of the following statements are correct in respect of national 'Judicial Appointments Commission'?
- The NJAC came into being by the 97th Constitutional Amendment Act.
 - The NJAC became a part of Collegium System of Indian Judiciary.
 - The Supreme Court backed the Collegium System
 - The NJAC would have had the involvement of the Executive in the process of appointment of Judges.
- (a) 1 and 3 (b) 3 and 4 (c) 2 and 4 (d) 1 and 2
49. Act, 79 to 122 of Indian Constitution deal with Indian Parliament. Which of the Articles of Constitution deal with Parliamentary Privileges?
- (a) Art .85 and 110 (b) Art. 96 and 118 (c) Art. 100 and 120 (d) Art. 105 and 122
50. Which of the following statements are correct in respect of part IX of Indian Constitution?
- The Original Part IX of Indian Constitution was omitted by the Constitution Seventh Amendment Act.
 - The Present Part IX of Indian Constitution was later inserted by 73rd Constitutional Amendment Act, 1992
 - There are 29 Articles in Part IX of Indian Constitution
 - Art 240 made a mention of Panchayats in Indian Constitution

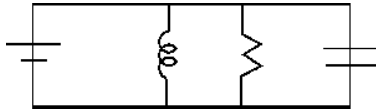
- (a) 1 and 2 (b) 2 and 3 (c) 3 and 4 (d) 1 and 3
51. Which of the following statements are not correct in respect of National Panchayat Raj Day?
1. National Panchayat Raj Day is celebrated on April 26th every year
 2. Former Prime Minister of India Manmohan Singh declared the First National Panchayat Raj Day
 3. The Thirteenth National Panchayat Raj Day was celebrated in the year 2023
 4. This Day marks the awarding of e- Panchayat Puraskar Award to selected village Panchayats
- (a) 1 and 2 (b) 1 and 4 (c) 2 and 3 (d) 2 and 4
52. Which of the following statement are correct in respect of Panchayat Raj in Union Territory of Jammu and Kashmir?
1. The Jammu and Kashmir has a Two - tier system of Panchayat Raj.
 2. Jammu and Kashmir Panchayat Raj Act 1989 was amended in December 2020
 3. The First elections in the Union Territory of Jammu and Kashmir were held between November 28 and December 19, 2020.
 4. The last Panchayat polls were held in Jammu and Kashmir in the year 2016.
- (a) 1 and 2 (b) 3 and 4 (c) 1 and 4 (d) 2 and 3
53. Which of the following statement are correct in respect of "Public Order"?
1. The Subject of Public Order is listed in Concurrent List
 2. The 'Freedom of Conscience' does not come under the subject of Public order.
 3. Maintenance of Public Order leads to Preventive Detention.
 4. The term 'Reasonable Restriction' mentioned in Art. 19(2) of the Constitution comes under the subject of 'Public Order'
- (a) 1 and 3 (b) 2 and 3 (c) 3 and 4 (d) 2 and 4
54. Which of the following statements are correct in respect of Art.30 of Indian Constitution?
1. Government Aid to any educational institutions run by any religious minority is not a Right.
 2. Government Aid is a constitutionally guaranteed Fundamental Right Minorities
 3. Government Aid to Minority Institutions is a matter of Policy.
 4. The Minority Institution is allowed to say that the grant of Aid should be on its own terms.
- (a) 3 and 4 (b) 1 and 3 (c) 1 and 4 (d) 2 and 4
55. With reference to 'Right to Privacy,' consider the following statements.
1. Right to Life and Personal Liberty guaranteed in Art - 21 of Indian Constitution implicitly includes 'Right to Privacy.'
 2. The 'Right to Privacy' is seen possessing inherent value important for every person's basic dignity
 3. The Right to Privacy possesses instrumental value which furthers a person's ability to life free of interference.
 4. There is no traces of Right to Privacy in Fundamental Rights under Part III of Indian Constitution.
- Which of the statements given above are correct?
- (a) 1, 2 and 3 (b) 2, 3 and 4 (c) 1, 3 and 4 (d) 1, 2 and 4
56. In which of the following Provisions of Indian Constitution does India have a bearing on Education ?
1. Fifth Schedule
 2. Sixth Schedule
 3. Seventh Schedule
 4. Fundamental Rights
 5. Directive Principles of State Policy
- (a) 4 and 5 (b) 3, 4 and 5 (c) 1, 2, 4 and 5 (d) 1, 2, 3, 4 and 5
57. With reference to 'Curative Petition' consider the following statements?
1. A curative petition is not supported by Indian Constitution.
 2. A curative petition is made after the Review Petition is rejected
 3. A curative petition is supported by Article 137 of Indian Constitution.

4. A curative Petition is made with in three weeks from the date of the judgment passed.
 (a) 2, 3 and 4 (b) 1, 2 and 3 (c) 2 and 3 only (d) 1, 2, 3 and 4
58. The concept of vicious circle of poverty is associated with
 (a) J M Keynes (b) Ragner Nurkse (c) Karl Marx (d) JS Mill
59. Components of Human Development Index are
 I. Longevity
 II. Infant mortality
 III. Educational attainment
 IV. Decent standard of living.
Codes:
 (a) I, II and III are correct (b) II, III and IV are correct
 (c) II, I and IV are correct (d) I, III and IV are correct
60. Which of the following are relevant in Zero Base Budgeting?
 I. Each item of expenditure is challenged in pre – budget review.
 II. No minimum level of expenditure is allowed to be taken as given.
 III. Expenditure of each item is increased marginally.
 IV. Most item of expenditure is taken for granted when budget is prepared for the next year.
Codes:
 (a) I and III are correct (b) I, II and IV are correct
 (c) I and II are correct (d) I, III and IV are correct
61. During the planning period, highest growth rate was achieved during.
 (a) Eighth plan (b) Tenth Plan (c) Ninth plan (d) Seventh plan
62. The most popular definition of sustainable development is given by
 (a) World Development Report (b) UNDEP Report
 (c) Brundtland (d) IMF Report
63. What is meant by farm mechanization ?
 (a) Using only machines for farm operations.
 (b) Replacement of biological sources of energy by the mechanical sources of energy for farm operations.
 (c) Using machines, tractors, tube wells, wed for agricultural productions.
 (d) Using machines, tractors, tube wells, fertilizers, etc. besides soil testing and certified seeds for agricultural productions.
64. Consider the following:
 I. RBI
 II. SBI
 III. NABARD
 IV. LIC
 The financial intermediaries among the above are:
Codes:
 (a) all the four (b) I, III, IV (c) II, III (d) II, IV
65. What is frequency of the Consumer Price Index (CPI) ?
 (a) Monthly (b) Weekly (c) Yearly (d) Daily
66. On what does economic development depend?
 (a) Natural resources (b) Capital formation (c) Size of the market (d) All of the above
67. Which of the following is true with respect to the monetary approach to the balance of payments?
 (a) It views the balance of payments as an essentially monetary phenomenon.
 (b) A balance of payments deficit results from an excess demand of money in the nation.
 (c) A balance of payments surplus results from an excess supply of money.
 (d) Balance of payments disequilibrium are not automatically corrected in the long run.
68. The exchange rate is kept the same in all parts of the market by
 (a) exchange arbitrage (b) Interest arbitrage (c) hedging (d) speculation

69. Which among the following is correct in context with the White ATMs (Automated Teller Machines)?
- ATMs owned by Foreign Companies
 - ATMs not owned by banks but by private ATM service providers.
 - Outsourced ATM Service by Banks – The ATM named under a brand sponsor bank but ATM machine not owned by the bank.
 - ATMs owned by Government.
70. Which of the following imaginary circumstances, the Reserve Bank of India will opt to sell Government securities in the open market?
- When the Foreign fund inflow in meek.
 - When there is enormous Foreign Funds inflow in the Indian Economy.
 - When banks have low liquidity and need liquidity.
 - When Government of India asks the RBI to sell securities.
71. Which Scientist coined the term Evergreen revolution.?
- Vergese Kurien
 - MS Swaminathan
 - HM Dalaya
 - None of the above
72. Which gas was released in the environment from the blast in Nord stream pipeline?
- Ethane
 - Methane
 - Ozone
 - Sulphur
73. The new Ramsar sites added to the State of Odisha in the 75th year of Independence are
- Tampara lake
 - Hirakud reservoir
 - Ansupa Lake
- Select the correct answer using the code given below:
- 1 only
 - 1 and 2 Only
 - 2 and 3 only
 - 1, 2 and 3
74. Consider the following pairs:
- Sandy soil - 85% sand + 15% clay or silt or both
 - Loam soil – 50% sand + 50% clay or silt or both
 - Loamy sand – 30% sand + 70% clay or silt or both
 - Silt – 10% sand + 90% silt
- Which of the pairs given above is/are correctly matched?
- 1 only
 - 1 and 2
 - 2 and 3
 - 1, 2 and 4
75. The fastest sinking city of the world is/are
- Venice
 - Jakarta
 - London
 - New York
- Select the correct answer using the code given below:
- 1 only
 - 2 only
 - 2 and 3 only
 - 1, 2 and 3
76. Which of the following gas is/ are ozone depleting substances?
- Chlorofluorocarbons (CFCs)
 - Hydrochlorofluorocarbons (HCFCs)
 - Methyl bromide
 - Carbon tetrachloride
- Select the correct answer using the code given below:
- 1 only
 - 2 only
 - 1, 2 and 3 only
 - all of the above
77. El Nino means
- Unusually warm water in the Pacific Ocean
 - Unusually cold water in the Pacific Ocean
 - Unusually warm water in the Atlantic Ocean
 - Unusually cold water in the Indian Ocean.
78. Consider the following pairs:
- Pachmari - Arunachal Pradesh

2. Dehang – Dibang - Madhya Pradesh
 3. Dibru – Saikhowa - Assam
 4. Agasthya – Malai - Tamil Nadu and Kerala
- Which of the pairs given above is/are correctly matched?
 (a) 1 and 2 (b) 2 and 4 (c) 3 and 4 (d) 4 only
79. Which out of the following is a cold blooded species?
 (a) Human (b) Lion (c) Birds (d) Reptiles
80. The hot spots presents in the Indian subcontinents are
 1. Himalaya
 2. Indo – Burma
 3. Western Ghats
 4. Sundaland
- Select the correct answer using the code given below:
 (a) 1, 2 and 3 (b) 2, 3 and 4 (c) 1 and 4 (d) All of the above
81. The extensive flooding in Libya was due to
 (a) Freddy cyclone (b) Daniel storm (c) Idai Cyclone (d) Batsirai Cyclone
82. Which of the followings us GHz frequency for its operation?
 1. WiFi
 2. Bluetooth
 3. Microwaves
 4. TV Remote
 (a) 1 and 4 (b) 1 and 2 (c) 1, 2 and 3 (d) 1, 3 and 4
83. Which among the following carry blood inside our body?
 1. Arteries
 2. Veins
 3. Capillaries
 4. Nerves
 (a) 2 and 4 (b) 1 and 2 (c) 2, 3 and 4 (d) 1, 2 and 3
84. Which of the followings are polar solvents?
 1. Water
 2. Alcohol
 3. Benzene
 4. Chloroform
 (a) 1 and 2 (b) 3 and 4 (c) 1 and 3 (d) 2 and 4
85. Which are the alloys in below list?
 1. Brass
 2. Stainless steel
 3. Platinum
 4. 22 Carat gold
 (a) 1 and 2 (b) 1 and 3 (c) 1, 2 and 3 (d) 1, 2 and 4
86. Which of the following involves joining two metals using heat?
 1. Soldering
 2. Welding
 3. Brazing
 4. Molding
 (a) 1 (b) 1 and 2 (c) 1, 2 and 3 (d) 1, 2, 3 and 4
87. Among the given computer Components, the item(s) that use LASER is/ are,
 1. CD/DVD reader
 2. Mouse
 3. Floppy drive
 4. Hard Disk
 (a) 1 (b) 1 and 2 (c) 1, 2 and 3 (d) 1, 2, 3 and 4

88. The greenhouse gases are,
1. Carbon Dioxide
 2. Methane
 3. Nitrous Oxide
 4. Water vapour
- (a) 1 (b) 1 and 2 (c) 1, 2 and 3 (d) 1, 2, 3 and 4
89. From the list of diseases given below, the one that is caused by mosquito bite are
1. Dengue
 2. Chikungunya
 3. Diarrhea
 4. Chickenpox
- (a) 1 (b) 1 and 2 (c) 1, 2 and 3 (d) 1, 2, 3 and 4
90. For a given metal rod, the heat conduction from one end to other can be reduced by
1. increasing its length
 2. increasing its cross section area
 3. drilling through – holes on its surface
 4. drilling through – hole from one end to other along its length
- (a) 1 and 2 (b) 1, 3 and 4 (c) 2, 3 and 4 (d) all the above
91. In a step – up transformer , which of the following are false?
1. Voltage is amplified
 2. Current is amplified
 3. Power is amplified
 4. Electric charge is amplified
- (a) 1 and 2 (b) 2 and 3 (c) 1, 2 and 3 (d) 2, 3 and 4
92. Dispersion will be observed for sunlight beam falling
1. normally on a transparent glass slab
 2. obliquely on a transparent glass slab
 3. normally on a surface of prism
 4. obliquely on a surface of prism
- (a) 1 and 3 (b) 2 and 4 (c) 1 and 2 (d) 3 and 4
93. The gases that can be used for food preservation are
1. Nitrogen
 2. Oxygen
 3. Argon
 4. Hydrogen sulfide
- (a) 1, 2 and 4 (b) 2, 3 and 4 (c) 1, 2 and 3 (d) 1, 3 and 4
94. Which of the following(s) is/are not attracted by a magnet?
1. Cobalt
 2. Nickel
 3. Silver
 4. Brass
- (a) 1 and 2 (b) 2 and 3 (c) 3 and 4 (d) 1 and 4
95. A bar magnet is shown. Four points are marked:
1. P
 2. Q
 3. R
 4. S
- The magnetic field will be maximum at
- 
- (a) at P and Q (b) at P and R (c) at Q and S (d) at S and R
96. A battery is connected to the “parallel combination of a resistor, an inductor and a capacitor”.



Which of the followings are true?

1. No current will flow through capacitor
 2. Maximum current will flow through capacitor
 3. Voltage drop will be maximum across the capacitor, among the three
 4. Removal of capacitor from the circuit won't affect the current flow in circuit
- (a) 1 (b) 1 and 2 (c) 1, 2 and 3 (d) 1, 2, 3 and 4
97. Which of the following are true for specific heat capacity of pure water at 25°C?
1. 4814 j/(Kg °C)
 2. 1 Cal / (g. °C)
 3. 4.184 j/(g. °C)
 4. 1 kCal / (kg. °C)
- (a) 1 and 2 (b) 3 and 4
(c) all the above (d) none of the above
98. GSM for papers means
1. Grains per square meter
 2. Gram per square meter
 3. Packing density
 4. Glossy standard material
- (a) 1 and 2 (b) 1, 2 and 3 (c) 2 and 3 (d) 2, 3 and 4
99. The value 10^{-15} is also known as
1. Femto
 2. Atto
 3. Angstrom
 4. Fermi
- (a) 1 and 2 (b) 2 and 3 (c) 3 and 4 (d) 4 and 1
100. The unit Ampere of current can also be written dimensionally as,
1. Volt/ Ohm
 2. Coulomb/ sec
 3. Weber/ Square meter
 4. Watt. Second/ Volt
- (a) 1 and 2 (b) 1, 2 and 4 (c) 1, 2 and 3 (d) all the above

