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T.B.C. : DZOL-D-LKG

Test Booklet Series

Serial No.

1188621

TEST BOOKLET

A

CDS Exam (II), 2020

GENERAL KNOWLEDGE

Time Allowed : Two Hours

Maximum Marks : 100

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. *DO NOT* write anything else on the Test Booklet.
4. This Test Booklet contains 120 items (questions). Each item is printed both in Hindi and English. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
5. You have to mark all your responses *ONLY* on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. *All* items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator *only the Answer Sheet*. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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1. As per the Budget Estimates of 2019–20, the following are some of the important sources of tax receipts for the Union Government :

1. Corporation Tax
2. Taxes on Income other than Corporation Tax
3. Goods and Services Tax
4. Union Excise Duties

Which one of the following is the correct descending order of the foresaid tax receipts as a percentage of GDP?

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

2. As per the World Bank's Ease of Doing Business Ranking, India's rank has improved from 142 in 2014 to 63 in 2019. During this period, in which of the following parameters has India's rank deteriorated?

- (a) Ease of starting a business
- (b) Getting electricity
- (c) Registering property
- (d) Paying taxes

3. Which one of the following statements with regard to the National Food Security Act is **not** correct?

- (a) The Act was enacted in the year 2013.
- (b) The Act was rolled out in the year 2014.
- (c) The Act legally entitles 67 percent of the population to receive highly subsidised food grains.
- (d) The Act is not being implemented in all the States/Union Territories.

4. Which one of the following statements about Indian economy during 2019–20 is **not** correct?

- (a) There has been deceleration in growth rate.
- (b) There has been sluggish growth in tax revenue relative to the Budget Estimates.
- (c) Fiscal deficit as percentage of GDP has been as per the Budget Estimates.
- (d) The non-tax revenue registered a considerably higher growth.

5. As per the Budget Estimates of expenditure on major subsidies during 2019–20, the maximum expenditure was likely to be on

- (a) urea subsidy
- (b) petroleum subsidy
- (c) food subsidy
- (d) fertilizer subsidy

6. Which one of the following Indian places receives minimum rainfall in a year?

- (a) Jodhpur
- (b) Leh
- (c) New Delhi
- (d) Bengaluru

7. Timber vegetation is generally **not** found in which of the following regions?

- (a) Subtropical region
- (b) Temperate region
- (c) Alpine region
- (d) Tundra region

8. Decadal growth rate of population in percentage was highest in India in the year
- (a) 1991
 - (b) 1981
 - (c) 1971
 - (d) 1961
9. The Isotherm Line, which divides India North-South in almost two equal parts in the month of January, is
- (a) 10 °C
 - (b) 25 °C
 - (c) 15 °C
 - (d) 20 °C
10. Which one of the following indicates the Tropical Savannah climate?
- (a) Aw
 - (b) Dfc
 - (c) Cwg
 - (d) Am
11. The largest geographical area of India is covered by which one of the following types of soils?
- (a) Inceptisols
 - (b) Entisols
 - (c) Alfisols
 - (d) Vertisols
12. Which one of the following cities is closest to the Equator?
- (a) Mogadishu
 - (b) Singapore
 - (c) Colombo
 - (d) Manila
13. Who among the following gave evidence before the Joint Select Committee on the Government of India Bill, 1919 in favour of female franchise?
1. Mrs. Annie Besant
 2. Mrs. Sarojini Naidu
 3. Mrs. Hirabai Tata
- Select the correct answer using the code given below.
- (a) 1 only
 - (b) 1 and 2 only
 - (c) 2 and 3 only
 - (d) 1, 2 and 3
14. In which one of the following places was the Ahmadiyya Movement started by Mirza Ghulam Ahmad?
- (a) Patna
 - (b) Aligarh
 - (c) Bhopal
 - (d) Gurdaspur

15. With whom did Subhas Chandra Bose form an alliance to destroy the Holwell Monument in Calcutta during 1939-40?

- (a) The Communist Party of India
- (b) The Muslim League
- (c) The Hindu Mahasabha
- (d) The Unionist Party

16. Who among the following created the first All India Trade Union Congress in 1920?

- (a) B. P. Wadia
- (b) S. A. Dange
- (c) N. M. Joshi
- (d) B. T. Ranadive

17. Which one among the following was India's first trade union in the proper sense of the term?

- (a) Bombay Labour Union
- (b) Ahmedabad Labour Union
- (c) Madras Labour Union
- (d) Allahabad Labour Union

18. Who among the following formed the Seva Samiti Boy Scouts Association in 1914?

- (a) Hriday Nath Kunzru
- (b) S. G. Vaze
- (c) Annie Besant
- (d) Shri Ram Bajpai

19. Which one among the following is **not** correct about the Secretary General of the Lok Sabha?

- (a) The Secretary General is the advisor to the Speaker.
- (b) The Secretary General acts under the authority in the name of the Speaker.
- (c) The Secretary General works under the Speaker with delegated authority.
- (d) The Secretary General passes orders in the name of the Speaker.

20. Who among the following moved the motion of Secret Sitting Session of the Assembly (1942)?

- (a) M. S. Aney
- (b) G. V. Mavalankar
- (c) C. M. Stephen
- (d) A. Ayyangar

21. Which one among the following statements pertaining to the President's term of office is **not** correct?
- (a) The President holds office for a term of five years.
 - (b) The President may be removed from the office by way of impeachment.
 - (c) The President may resign before the expiration of his/her term by writing to the Speaker of the Lok Sabha.
 - (d) The President shall, notwithstanding the expiration of his/her term, continue to hold office until his/her successor enters upon his/her office.
22. Which of the following Articles in the Constitution of India are exceptions to the Fundamental Rights enumerated in Article 14 and Article 19?
- (a) Article 31A and Article 31C
 - (b) Article 31B and Article 31D
 - (c) Article 12 and Article 13
 - (d) Article 16 and Article 17
23. Which one of the following is **not** the necessary condition for the issue of a writ of Quo Warranto?
- (a) The office must be a public office.
 - (b) The office must be created by the Statute or by the Constitution itself.
 - (c) The office must not be a substantive one.
 - (d) There has been a contravention of the Constitution or a Statute in appropriating such person to that office.
24. Which one of the following Commissions is related to Article 338A?
- (a) The National Commission for Scheduled Castes
 - (b) The National Commission for Scheduled Tribes
 - (c) The National Commission for Backward Classes
 - (d) The National Commission for Women
25. August 12 is celebrated as
- (a) the World Environment Day
 - (b) the World No-Tobacco Day
 - (c) the International Day against Drug Abuse and Illicit Trafficking
 - (d) the International Youth Day
26. Which one of the following countries had chosen the name 'Nisarga' for the cyclone which devastated the coastline of Maharashtra and Gujarat in June 2020?
- (a) Maldives
 - (b) Bangladesh
 - (c) Thailand
 - (d) Japan
27. Who among the following played the role of Shakuntala Devi in the biopic movie based on the life of the famous mathematician?
- (a) Madhuri Dixit
 - (b) Rani Mukherjee
 - (c) Tabu
 - (d) Vidya Balan

28. G. C. Murmu, who was appointed as the Comptroller and Auditor General of India in August 2020, was the Lieutenant Governor/Administrator of which one of the following Union Territories prior to this appointment?

- (a) Ladakh
- (b) Jammu and Kashmir
- (c) Chandigarh
- (d) Puducherry

29. Which one of the following States is planned to host the Khelo India Youth Games (4th Edition)?

- (a) Kerala
- (b) Haryana
- (c) Gujarat
- (d) Manipur

30. Which one among the following is not a coral reef island?

- (a) Great Barrier Reef, Australia
- (b) Rainbow Reef, Fiji
- (c) Swaraj Island, India
- (d) Kyushu Island, Japan

31. Since 2014–15, India has consistently run trade surplus with which one among the following countries?

- (a) China
- (b) Saudi Arabia
- (c) USA
- (d) Germany

32. Arrange the following countries in descending order as per the Global Human Development Index, 2019 :

- 1. Germany
- 2. USA
- 3. South Africa
- 4. India

Select the correct answer using the code given below.

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

33. As per the use-based classification of the Index of Industrial Production (IIP), the maximum weight has been assigned to

- (a) primary goods
- (b) intermediate goods
- (c) consumer durables
- (d) consumer non-durables

34. Normally, there will not be a shift in the demand curve when

- (a) price of a commodity falls
- (b) consumers want to buy more at any given price
- (c) average income rises
- (d) population grows

35. A market, in which there are a large number of firms, homogeneous product, infinite elasticity of demand for an individual firm and no control over price by firms, is termed as

- (a) oligopoly
- (b) imperfect competition
- (c) monopolistic competition
- (d) perfect competition

36. Which one of the following statements with regard to ozone is **not** correct?

- (a) Ozone is found mostly at 15–55 km in the atmosphere.
- (b) Ozone is produced by gaseous chemical reactions.
- (c) 16th November is celebrated as the International Day for the Preservation of the Ozone Layer.
- (d) Ozone is a form of oxygen in which three oxygen atoms are bounded together.

37. Sea of Azov is connected to

- (a) Black Sea
- (b) Baltic Sea
- (c) Mediterranean Sea
- (d) North Sea

38. Climax mine, the largest producer of molybdenum, is located in

- (a) Canada
- (b) USA
- (c) Australia
- (d) South Africa

39. Which one among the following Union Territories of India is the smallest in geographical area?

- (a) Chandigarh
- (b) Puducherry
- (c) Dadra and Nagar Haveli and Daman and Diu
- (d) Lakshadweep

40. Buenos Aires and Montevideo are situated across the banks of

- (a) River Plate
- (b) Orinoco River
- (c) Purus River
- (d) Madeira River

41. The largest barrier reef system in the world is found at
- (a) East Australian Coast
 - (b) West Australian Coast
 - (c) North Australian Coast
 - (d) South Australian Coast
42. During the 19th century, who among the following wrote *Satapatra Series*?
- (a) M. G. Ranade
 - (b) B. G. Tilak
 - (c) Bankim Chandra Chatterjee
 - (d) G. H. Deshmukh
43. Which one of the following was **not** a demand made by the Congress moderates?
- (a) Universal adult franchise
 - (b) Repeal of the Arms Act
 - (c) Extension of Permanent Settlement
 - (d) Higher jobs for Indians in the army
44. Who among the following founded the Mohammedan Anglo-Oriental Defence Association (1893)?
- (a) Auckland Colvin
 - (b) Badruddin Tyabji
 - (c) Theodore Beck
 - (d) Sir Syed Ahmad Khan
45. After the First World War, the Triveni Sangh was formed by
- (a) the Jats and Gujjars
 - (b) the Rajputs and Yadavs
 - (c) the Jats and Yadavs
 - (d) the Ahirs and Kurmis
46. Who among the following was the first to accept a ministerial position in the Central Provinces in October 1925?
- (a) B. S. Moonje
 - (b) M. R. Jayakar
 - (c) S. B. Tambe
 - (d) B. N. Sasmal
47. Who among the following formed the National Liberation Federation (Liberal Party)?
- (a) Motilal Nehru and C. R. Das
 - (b) Muhammad Ali and C. R. Das
 - (c) T. B. Saprú and M. R. Jayakar
 - (d) M. R. Jayakar and C. R. Das
48. The National Disaster Management Authority functions under the Ministry of
- (a) Environment, Forest and Climate Change
 - (b) Home Affairs
 - (c) Commerce and Industry
 - (d) Finance

49. The socialist idea of *Sapta Kranti* (Seven Revolutions) was proposed by
- Ram Manohar Lohia
 - Jawaharlal Nehru
 - M. G. Ranade
 - Jayaprakash Narayan
50. Which one among the following is *not* a character of a secular State?
- It refuses theocracy.
 - It separates religion from the State.
 - A State in order to be secular must be democratic.
 - It must prevent religious conflict and promote religious harmony.
51. A special address by the Governor refers to the address delivered by the Governor
- when President's Rule is called for
 - when a national emergency necessitates dissolution of Legislative Assembly
 - at the commencement of the first session after general election and at the first session of each year
 - whenever he/she has concluded that such is necessary
52. Which one of the following statements in relation to Panchayats is *not* correct?
- Legislature of a State may, by law, make provisions with respect to the composition of Panchayats.
 - Panchayat area means the territorial area of a Panchayat.
 - Gram Sabha includes all persons in the electoral rolls of village within a Panchayat.
 - Reservation of seats for SCs and STs has nothing to do with proportion of their population.
53. Which one of the following statements with regard to 'protective democracy' is *not* correct?
- It propounds that citizen participation is essential in democracies.
 - Citizens must be able to protect themselves from governmental encroachments.
 - It is compatible with *laissez-faire* capitalism.
 - Political equality is understood in formal terms as equal voting rights.
54. In August 2020, a blast has taken place at Beirut killing about one hundred people and thousand wounded. The blast was caused by
- dynamite
 - ammonium nitrate
 - RDX
 - mercury nitride

55. What is 'Little Boy'?

- (a) The fission bomb dropped at Hiroshima
- (b) The fusion bomb dropped at Nagasaki
- (c) The first nuclear bomb tested by America
- (d) The first nuclear bomb tested by North Korea

56. Which one of the following Indian institutes was approved by the Drugs Controller General of India for conducting human trials of the Oxford-AstraZeneca Covid-19 vaccine candidate?

- (a) Bharat Biotech
- (b) AIIMS
- (c) Serum Institute of India
- (d) National Institute of Epidemiology

57. The recent explosion near OIL well in Baghjan is due to

- (a) removing the spool during the blowout control operations
- (b) transfer of oil from its depot to a pipeline
- (c) the leakage of methyl isocyanide
- (d) the leakage of radiations from radioactive substance

58. Who among the following is the architect of the Ram Temple being constructed at Ayodhya?

- (a) P. O. Sompura
- (b) Chandrakant Sompura
- (c) Brinda Somaya
- (d) B. V. Doshi

59. Which one of the following countries is **not** located on the Tropic of Capricorn?

- (a) Chile
- (b) Brazil
- (c) Paraguay
- (d) Uruguay

60. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I</i> (Active Volcano)	<i>List-II</i> (Location)
A. Mount Merapi	1. Hawaii
B. Sakurajima	2. Italy
C. Mount Vesuvius	3. Japan
D. Mauna Loa	4. Indonesia

Code :

- (a) A B C D
1 2 3 4
- (b) A B C D
1 3 2 4
- (c) A B C D
4 2 3 1
- (d) A B C D
4 3 2 1

61. Which one of the following is **not** a major tectonic plate?
- (a) Saudi Arabian plate
 - (b) Antarctica and the surrounding oceanic plate
 - (c) India-Australia-New Zealand plate
 - (d) Pacific plate
62. Which one of the following is considered as the deepest point of the oceans?
- (a) Tonga Trench
 - (b) Mariana Trench
 - (c) Philippine Trench
 - (d) Kermadec Trench
63. The four planets closest to the Sun are called
- (a) terrestrial planets
 - (b) giant planets
 - (c) dwarf planets
 - (d) gas planets
64. Which one of the following countries does **not** have Tundra vegetation?
- (a) Belarus
 - (b) USA
 - (c) Russia
 - (d) Canada
65. Which one of the following is **not** a fluvial landform?
- (a) Cirque
 - (b) Gorge
 - (c) Braids
 - (d) Canyon
66. In the Gandhara School of Art, initially blue schist and green phyllite were used. When did stucco completely replace stone as main material used by Gandhara School sculptors?
- (a) 1st century CE
 - (b) 2nd century CE
 - (c) 3rd century CE
 - (d) 5th century CE
67. Which one of the following statements about Gupta coins is **not** correct?
- (a) Gupta kings issued large number of gold coins known as *Dinar*.
 - (b) Chandragupta II, Kumaragupta I, Skandagupta and Budhagupta issued silver coins.
 - (c) The obverses of coins are carved with the images of the kings and on the reverse are carved deities.
 - (d) The largest number of coins issued by the Guptas were of copper.

68. Who among the following wrote *The Philosophy of the Bomb*?

- (a) Sukhdev
- (b) Chandrashekhar Azad
- (c) Bhagwati Charan Vohra
- (d) Bhagat Singh

69. At which one of the following Sessions of the Indian National Congress was the resolution on Fundamental Rights and Economic Policy passed?

- (a) Tripuri Session
- (b) Lahore Session
- (c) Lucknow Session
- (d) Karachi Session

70. Which one of the following towns was *not* a centre of the Revolt of 1857?

- (a) Ayodhya
- (b) Agra
- (c) Delhi
- (d) Kanpur

71. Consider the following statements :

The Azamgarh Proclamation refers to

1. the declaration by the rebels of 1857
2. the statement by the leader of the underground movement in the Revolt of 1942

Which of the statements given above is/are *not* correct?

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

72. Ibn Batuta went to China as the envoy of which one of the following Delhi Sultans?

- (a) Alauddin Khilji
- (b) Muhammad bin Tughluq
- (c) Iltutmish
- (d) Firoz Shah Tughluq

73. Al-Biruni's *Kitab-ul-Hind* was written in which language?

- (a) Arabic
- (b) Persian
- (c) Urdu
- (d) Turkish

74. Which of the following statements with regard to the privileges of the Members of the Parliament are correct?

1. Privileges would not be fettered by the Article 19(1)(a) of the Constitution of India.
2. Privileges must be read subject to the Articles 20–22 and Article 32 of the Constitution of India.
3. Immunity is available in relation to both civil and criminal prosecution.
4. Immunity is available in relation to freedom of speech even in his/her private or personal capacity.

Select the correct answer using the code given below.

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

75. Which one of the following statements with regard to the appointment of the Members of the Parliamentary Committees is correct?

- (a) The Members are only appointed.
- (b) The Members are only elected.
- (c) The Members are only nominated.
- (d) The Members are appointed or elected on a motion made and adopted or nominated by the Speaker of the Lok Sabha or the Chairman of the Rajya Sabha.

76. Which one of the following is **not** a classified category of political parties as outlined by the Election Commission of India?

- (a) National Parties
- (b) State Recognised Parties
- (c) Regional Parties
- (d) Registered Unrecognised Parties

77. Which of the following terms were added to the Preamble of the Constitution of India by the Constitutional Amendment, 1976?

1. Socialist
2. Secular
3. Integrity
4. Fraternity

Select the correct answer using the code given below.

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

78. Who among the following was the advisor to the Constituent Assembly?

- (a) B. N. Rau
- (b) B. R. Ambedkar
- (c) Pattabhi Sitaramayya
- (d) Alladi Krishnaswamy

79. In the Indian judicial system, writs are issued by

- (a) the Supreme Court only
- (b) the High Courts only
- (c) the Supreme Court and High Courts only
- (d) the Supreme Court, High Courts and Lower Courts

80. The Citizenship (Amendment) Act falls under which one of the following Parts of the Constitution of India?

- (a) Part I
- (b) Part II
- (c) Part IV
- (d) Part VI

81. Recently a rare kind of yellow turtle was discovered in India. The State in which it was seen is
- (a) Uttarakhand
 - (b) Odisha
 - (c) Tamil Nadu
 - (d) Arunachal Pradesh
82. ASEEM is
- (a) Aatmanirbhar Skilled Employee Employer Measurement
 - (b) Aatmanirbhar Skilled Employee Employer Mapping
 - (c) Aatmanirbhar Skilled Employee Enterprises Medium
 - (d) Automatic Skilled Employee Employer Mission
83. The Government of India programme regarding 'Stay in India and Study in India' is initiated by
- (a) the Ministry of Youth Affairs and Sports
 - (b) the Ministry of Culture
 - (c) the Ministry of Education
 - (d) the Ministry of Tourism
84. Which one of the following lakes in India has a large quantity of a substance found in the Moon?
- (a) Lonar Lake, Maharashtra
 - (b) Pangong Lake, Ladakh
 - (c) Chilika Lake, Odisha
 - (d) Loktak Lake, Manipur
85. The Pragyan rover installed in Chandrayaan-2 mission had how many wheels?
- (a) 2
 - (b) 3
 - (c) 4
 - (d) 6
86. If the linear momentum of a moving object gets doubled due to application of a force, then its kinetic energy will
- (a) remain same
 - (b) increase by four times
 - (c) increase by two times
 - (d) increase by eight times
87. If the distance between two objects is increased by two times, the gravitational force between them will
- (a) remain same
 - (b) increase by two times
 - (c) decrease by two times
 - (d) decrease by four times
88. Which one of the following statements about the properties of neutrons is **not** correct?
- (a) Neutron mass is almost equal to proton mass.
 - (b) Neutrons possess zero charge.
 - (c) Neutrons are located inside the atomic nuclei.
 - (d) Neutrons revolve around the atomic nuclei.

89. Which one of the following statements with regard to the ultraviolet light is **not** correct?
- It is an electromagnetic wave.
 - It can travel through vacuum.
 - It is a longitudinal wave.
 - Its wavelength is shorter/smaller than that of visible light.
90. If the speed of light in air is represented by c and the speed in a medium is v , then the refractive index of the medium can be calculated using the formula
- v/c
 - c/v
 - $c/(2.v)$
 - $(c-v)/c$
91. Under the Kingdom Plantae, which of the following individuals are predominantly aquatic?
- Bryophytes
 - Algae
 - Pteridophyta
 - Gymnosperms
92. All the individuals of a particular organism, such as rose plants, belong to a taxonomic category called
- species
 - genus
 - family
 - order
93. Pearls are harvested from
- Prawn
 - Pila
 - Tuna
 - Oyster
94. Wings of birds and bats are considered analogous structures because they have
- common origin and common function
 - different origin and common function
 - common origin and different function
 - different origin and different function
95. Apart from hyper acid secretion, peptic ulcers are also developed due to bacterial infection. The causative agent is
- Helicobacter pylori*
 - E. coli*
 - Streptococcus pneumoniae*
 - Salmonella typhimurium*
96. A mixture of sodium chloride (salt) and ammonium chloride can be separated by
- sublimation
 - filtration
 - chromatography
 - distillation

97. Symbol of element was introduced by
- John Dalton
 - Antoine Lavoisier
 - Jöns Jacob Berzelius
 - Robert Boyle
98. Identify the correct pair of elements among the following which are liquid at room temperature and standard pressure.
- Bromine and fluorine
 - Mercury and rubidium
 - Bromine and thallium
 - Bromine and mercury
99. Which one of the following oxides shows both acidic and basic behaviour?
- Zinc oxide
 - Copper oxide
 - Magnesium oxide
 - Calcium oxide
100. Silver articles turn black when kept in the open for longer time due to the formation of
- H_2S
 - AgS
 - $AgSO_4$
 - Ag_2S
101. Which of the following lenses will bend the light rays through largest angle?
- Lens with power +2.0 D
 - Lens with power +2.5 D
 - Lens with power -1.5 D
 - Lens with power -2.0 D
102. A luminous object is placed at a distance of 40 cm from a converging lens of focal length 25 cm. The image obtained in the screen is
- erect and magnified
 - erect and smaller
 - inverted and magnified
 - inverted and smaller
103. When a light ray enters into glass medium from water at an angle of incidence 0° , what would be the angle of refraction?
- 90°
 - 45°
 - 0°
 - The ray will not enter at all
104. Which one of the following phenomena verifies the fact that light travels much faster than sound?
- Twinkling of stars in night sky
 - Lighting of a matchstick
 - Thunderstorm
 - Mirage

105. Which one of the following combinations of source and screen would produce sharpest shadow of an opaque object?
- (a) A point source and an opaque screen
 - (b) An extended source and an opaque screen
 - (c) A point source and a transparent screen
 - (d) An extended source and a transparent screen
106. Which one among the following is a non-conventional source of energy?
- (a) Petroleum
 - (b) Coal
 - (c) Radioactive elements
 - (d) Solar energy
107. Which one of the following statements about phloem is correct?
- (a) Phloem transports water and minerals.
 - (b) Phloem transports photosynthetic products.
 - (c) Phloem is a simple tissue.
 - (d) Phloem gives support to the plant.
108. Mature sclerenchyma cells have
- (a) cellulose wall and are living
 - (b) lignified wall and are living
 - (c) suberized wall and are dead
 - (d) lignified wall and are dead
109. In human beings, the chromosomes that determine birth of a normal female child are
- (a) one X chromosome from mother and one X chromosome from father
 - (b) one X chromosome from mother and one Y chromosome from father
 - (c) two X chromosomes from mother and one X chromosome from father
 - (d) one X chromosome and one Y chromosome from father and one X chromosome from mother
110. Antibiotic such as penicillin blocks
- (a) cell wall formation in bacteria
 - (b) RNA synthesis in bacteria
 - (c) DNA synthesis in bacteria
 - (d) division in bacteria
111. The radioactive isotope of hydrogen is
- (a) protium
 - (b) deuterium
 - (c) tritium
 - (d) hydronium
112. Which one of the following is used for storing biological tissues?
- (a) Liquid nitrogen
 - (b) Liquid helium
 - (c) Liquid argon
 - (d) Liquid bromine

113. Which one of the following does **not** form oxide on reaction with oxygen?
- (a) Magnesium
 - (b) Lead
 - (c) Tin
 - (d) Silver
114. The valency of phosphorus is
- (a) 2, 3
 - (b) 3, 4
 - (c) 4, 5
 - (d) 3, 5
115. Lead nitrate on heating gives
- (a) PbO_2 and NO_2
 - (b) PbO and NO_2
 - (c) PbO and NO
 - (d) PbO_2 and NO
116. Which one of the following is a decommissioned aircraft carrier?
- (a) INS Rajput
 - (b) INS Chakra
 - (c) INS Khanderi
 - (d) INS Viraat
117. Who among the following has won the Singles Title in Wimbledon Tennis Championship (Women) in the year 2019?
- (a) Karolina Pliskova
 - (b) Simona Halep
 - (c) Serena Williams
 - (d) Naomi Osaka
118. Recently islands of Andaman and Nicobar were connected with mainland by Submarine Optical Fibre Cable. Which one of the following islands was **not** connected initially?
- (a) Shaheed Island
 - (b) Swaraj Island
 - (c) Little Andaman
 - (d) Port Blair
119. In August 2020, who among the following was administered the oath as the Prime Minister of Sri Lanka for the fourth time?
- (a) Gotabaya Rajapaksa
 - (b) Basil Rajapaksa
 - (c) Mahinda Rajapaksa
 - (d) Namal Rajapaksa
120. Which one of the following Indian Ocean island nations has recently declared a state of environmental emergency due to oil spill from a grounded ship?
- (a) Maldives
 - (b) Mauritius
 - (c) Madagascar
 - (d) Sri Lanka