

# WBCS (EXE.) ETC.

## MAIN EXAMINATION 2023

### TEST BOOKLET SERIES - A

#### PAPER - IV

- Powndal is a unit of  
(A) mass (B) **weight**  
(C) momentum (D) energy
  - Who is called the 'Father of Green Revolution' in India?  
(A) Verghese Kurien (B) **MS Swaminathan**  
(C) Dhyan Chand (D) Vikram Sarabhai
  - Which of the following carbohydrates is not a monosaccharide?  
(A) Glucose (B) Fructose  
(C) Ribose (D) **Lactose**
  - Who is called the 'Father of Election Science'?  
(A) **David Butler** (B) T. N. Seshan  
(C) Abul Kalam Azad (D) Sukumar Sen
  - When the power of eye lens increases, the defect of vision is produced. The defect is known as  
(A) **shortsightedness** (B) longsightedness  
(C) colour blindness (D) astigmatism
  - Which of the following is the most suitable material for making permanent magnet?  
(A) **Steel** (B) Soft iron  
(C) Copper (D) Nickel
  - A magnetic field can be produced by  
(A) moving charge. (B) a changing electric field.  
(C) **both (A) and (B)** (D) None of the above
  - An astronaut in a spaceship see the outer space as  
(A) Red (B) Blue  
(C) Indigo (D) **Black**
  - The National Inland Navigation Institute is situated in which of the following places?  
(A) **Patna** (B) Balasore  
(C) Bangalore (D) Dehradun
  - The first geostationary satellite launched in 1964 was called  
(A) ANIK (B) **SYNCOM-3**  
(C) WESTAR (D) MOLNIYA
  - Graphite is a good conductor of electricity due to  
(A) strong electrostatic bonding.  
(B) free localized bonds.  
(C) **free delocalized electrons.**  
(D) tetrahedral arrangement of particles.
  - The year in which NCEPC was set up is  
(A) 1970 (B) **1972**  
(C) 1974 (D) 1980
  - Which of the following is a naturally occurring polymer?  
(A) **Starch** (B) Teflon  
(C) Neoprene (D) Nylon
  - Fullerene is made up of \_\_\_\_\_ carbon atoms  
(A) 100 (B) 20  
(C) 75 (D) **60**
  - The 10% law was provided by  
(A) Odum (B) **Lindemann**  
(C) Tausley (D) Darwin
  - Where is the COP 28 scheduled to be held?  
(A) India (B) **Dubai**  
(C) USA (D) Japan
  - The following organism does not exhibit sexual reproduction :  
(A) Bacteria (B) Cyanobacteria  
(C) Fungi (D) Algae
- [Note: Both the options (A) and (B) are correct.]
- World Earth Day is celebrated on  
(A) 2nd May (B) **22nd April**  
(C) 20th March (D) 28th February

19. Gahirmatha Sanctuary is the only sanctuary for \_\_\_\_\_ in Odisha.  
**(A) Turtles** (B) Crocodiles  
 (C) Elephants (D) Deer
20. The range of visible spectrum is  
 (A) 350-650 nm (B) 380-750 nm  
**(C) 390-700 nm** (D) 400-800 nm
21. The number of United Nations Sustainable Development Goals are  
 (A) 15 (B) 16  
**(C) 17** (D) 18
22. Stone cancer occurs due to  
 (A) Frost damage (B) SPM  
**(C) Acid Rain** (D) Higher VOC level
23. The WSSD was held in  
**(A) Johannesburg** (B) Brazil  
 (C) London (D) Paris
24. Minamata disease is caused by  
 (A) Lead **(B) Mercury**  
 (C) Cadmium (D) Arsenic
25. The HQ for CPCB is located in  
 (A) Mumbai (B) Kolkata  
**(C) New Delhi** (D) Bangalore
26. Who among the following made first Film Theatre of India?  
 (A) Lumiere Brothers  
**(B) Mani Sethna**  
 (C) Dada Saheb Phalke  
 (D) Dhirendra Nath Ganguly
27. Vinegar is a dilute solution of  
 (A) ethyl alcohol **(B) acetic acid**  
 (C) formic acid (D) vanadium
28. What was the capital of Vajji Mahajanapada?  
 (A) Kushinara **(B) Vaishali**  
 (C) Pava (D) Shuktimati
29. The internal energy of gas due to adiabatic expansion will be  
**(A) decreased** (B) increased  
 (C) same (D) dissipated
30. Probiotics are  
 (A) cancer inducing microbes  
 (B) safe antibiotics  
 (C) new kind of food allergens  
**(D) live microbial food supplement**
31. The following layer is also called the hot layer of the atmosphere :  
 (A) Troposphere (B) Stratosphere  
 (C) Mesosphere **(D) Thermosphere**
32. Where is the global seed vault located?  
 (A) Switzerland **(B) Norway**  
 (C) Finland (D) Denmark
33. Which one of the following is not a metalloid?  
 (A) Boron (B) Silicon  
**(C) Gallium** (D) Germanium
34. When is the 'World Intellectual Property Day' observed?  
 (A) April 24 **(B) April 26**  
 (C) April 28 (D) April 30
35. The following organism helps in denitrification :  
 (A) Fungi **(B) Bacteria**  
 (C) Algae (D) Protozoa
36. Silent Valley Movement occurred in  
 (A) Tamil Nadu (B) Karnataka  
 (C) Andhra Pradesh **(D) Kerala**
37. Which of the following is a vector quantity?  
 (A) Current **(B) Current density**  
 (C) Power (D) Wattless current
38. UNDP Headquarters is located in  
**(A) New York** (B) Geneva  
 (C) London (D) Paris
39. How many biosphere reserves are there in India in 2023?  
 (A) 17 **(B) 18**  
 (C) 19 (D) 20
40. Lumbar vertebrae are found in  
**(A) Abdominal region** (B) Thorax  
 (C) Neck region (D) Hip region
41. The highest global warming potential is observed in  
 (A) CO<sub>2</sub> (B) NO<sub>2</sub>  
 (C) CFC **(D) SF<sub>6</sub>**

42. Lichen is extremely sensitive to  
 (A) **SO<sub>2</sub>** (B) CO<sub>2</sub>  
 (C) CO (D) N<sub>2</sub>
43. The year in which WHO was established is  
 (A) 1940 (B) **1948**  
 (C) 1952 (D) 1954
44. The positive temperature coefficient of resistance is for  
 (A) Carbon (B) Germanium  
 (C) **Copper** (D) An electrolyte
45. Water is disinfected with  
 (A) KMnO<sub>4</sub> (B) Cl<sub>2</sub>  
 (C) **Both** (D) NO<sub>2</sub>
46. Which is the largest tennis stadium in the world?  
 (A) **Arthur Ashe Stadium**  
 (B) 02 Arena Stadium  
 (C) Rotterdam Ahoy Stadium  
 (D) Perth Arena Stadium
47. BOD increases in a waterbody due to the increase of  
 (A) Phytoplankton (B) Zooplankton  
 (C) **Sewage** (D) Heavy Metals
48. GATT was introduced in  
 (A) 1947 (B) **1948**  
 (C) 1954 (D) 1960
49. The coldest layer of the atmosphere is  
 (A) Troposphere (B) Stratosphere  
 (C) **Mesosphere** (D) Thermosphere
50. Toptapani is located in  
 (A) Uttar Pradesh (B) **Odisha**  
 (C) Madhya Pradesh (D) Jharkhand
51. The primary organ affected by COVID 19  
 (A) **Lung** (B) Liver  
 (C) Kidney (D) Spleen
52. The size of the nanoparticles between \_\_\_\_\_ nm  
 (A) 100 to 1000 (B) 0.1 to 10  
 (C) **1 to 100** (D) 0.01 to 1
53. Pablo Picasso was a famous painter from which country?  
 (A) USA (B) France  
 (C) **Spain** (D) UAE
54. Minamata Bay is located in  
 (A) North Korea (B) China  
 (C) South Korea (D) **Japan**
55. The frequency of a simple pendulum is f. What is the frequency change in the energy of the pendulum?  
 (A)  $\frac{f}{2}$  (B) f  
 (C) **2f** (D) 4f
56. Which is the first Indian documentary to win an Oscar Award?  
 (A) Stranger at the Gate  
 (B) How do you Measure a Year?  
 (C) **The Elephant Whisperers**  
 (D) All that Breathes
57. The direction of induced e.m.f. during electromagnetic induction is given by  
 (A) Faraday's Law. (B) **Lenz's Law.**  
 (C) Maxwell's Law. (D) Ampere's Law.
58. Who is known as the father of the modern Olympic Games?  
 (A) Woodrow Wilson  
 (B) **Pierre de Coubertin**  
 (C) Spyridon Samaras  
 (D) Herbert Hoove
59. What is the order of increasing energy of the orbitals within a single energy level?  
 (A)  $d < s < f < p$  (B)  **$s < p < d < f$**   
 (C)  $p < s < f < d$  (D)  $f < d < p < s$
60. The size of E.Coli bacteria is  
 (A) **2000 nm.** (B) 200 nm.  
 (C) 20 nm. (D) 20 nm.
61. There are \_\_\_\_\_ districts in North Bengal.  
 (A) **8** (B) 7  
 (C) 6 (D) 5
62. Which institution won the '2021 Indira Gandhi Prize for Peace, Disarmament and Development'?  
 (A) Children For You (B) **Pratham**  
 (C) Vanavil (D) Give India Foundation
63. The element that is required for the synthesis of chlorophyll is  
 (A) Mn (B) Fe  
 (C) **Mg** (D) Mo

[Note: Fe also helps in CHL synthesis, but it is not its component.]

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64. Which of the following beach is also known as Mahatma Gandhi Beach?  
 (A) Marari beach (B) Cherai beach  
**(C) Kollam beach** (D) Kannur beach
65. Competitive Exclusion Principle was denoted by  
 (A) Darwin **(B) Gause**  
 (C) Lamarck (D) Odum
66. A soap bubble is given a negative charge, then its radius  
 (A) decreases  
**(B) increases**  
 (C) remains unchanged  
 (D) nothing can be predicted as information is insufficient
67. One of the following liquids will leave behind a residue on heating. This one is  
**(A) Brine** (B) Bromine  
 (C) Mercury (D) Alcohol
68. Which species does not contain at least one 90 bond angle?  
**(A) CF<sub>4</sub>** (B) PF<sub>5</sub>  
 (C) SF<sub>6</sub> (D) SiF<sub>6</sub><sup>2-</sup>
69. Fixed torque is applied to a body. What will be generated in the body?  
**(A) Angular acceleration**  
 (B) Linear acceleration  
 (C) Angular velocity  
 (D) Angular displacement
70. Cyclotron is a device which is used to  
 (A) measure the charge  
 (B) measure the voltage  
 (C) accelerating electrons  
**(D) accelerating protons**
71. The colour of CuS is  
**(A) Black** (B) Blue  
 (C) Yellow (D) Red
72. The degrees of freedom of H<sub>2</sub> molecule is  
 (A) 2 (B) 3  
**(C) 5** (D) 6
73. Who among the following made the first fully indigenous silent feature film in India?  
 (A) Lumiere Brothers  
 (B) Mani Sethna  
**(C) Dada Saheb Phalke**  
 (D) Dharendra Nath Ganguly
74. Who was recently crowned as 'Miss India 2023'?  
**(A) Nandini Gupta** (B) Megan Edward  
 (C) Shreya Poonja (D) Strela Luwang
75. The valley of flowers is located in which state of India?  
 (A) Uttar Pradesh **(B) Uttarakhand**  
 (C) Sikkim (D) Arunachal Pradesh
76. Which transitions are studied by UV spectrometer?  
 (A) Rotational **(B) Electronic**  
 (C) Nuclear (D) Vibrational
77. Which documentary won the "Best Long Documentary Award" at the South Asian Film Festival of Montreal 2023?  
 (A) Gujarat (B) Scam  
 (C) Bharat Mata Ki **(D) Gauri**
78. Which movie has been declared the best Indian film of all time by the International Federation of Film Critics (FIPRESCI)?  
**(A) Pather Panchali** (B) Ankur  
 (C) Anand (D) Mughal-E-Azam
79. Noise in temperature of Sun compared to Earth is more than \_\_\_\_ K  
 (A) 1000 (B) 500  
 (C) 5000 **(D) 1,00,000**
80. 'Country Partnership Framework' is associated with which institution?  
**(A) World Bank** (B) IMF  
 (C) WEF (D) ADB
81. Reaction of Lead Oxide (PbO) and hydrogen gas (H<sub>2</sub>) leads to  
**(A) reduction of lead.**  
 (B) oxidation of lead.  
 (C) formation of PbCl<sub>2</sub>.  
 (D) formation of PbO.

82. *Liberica excelsa*, which was seen in the news, belongs to which species?  
 (A) Tea (B) **Coffee**  
 (C) Rice (D) Wheat
83. The Fukushima Nuclear disaster took place in  
 (A) 2010 (B) **2011**  
 (C) 2012 (D) 2014
84. Netaji Subhas Chandra Bose became the Supreme Commander of Indian National Army in  
 (A) 1932 (B) 1935  
 (C) 1945 (D) **1943**
85. What was the launch date of Chaidrayaan-3?  
 (A) 24 July, 2023 (B) **14 July, 2023**  
 (C) 13 July, 2023 (D) 04 July, 2023
86. Vocal Cords occur in  
 (A) pharynx (B) **larynx**  
 (C) glottis (D) bronchial tube
87. Law of definite proportion is obeyed in  
 (A) **Stoichiometry** (B) electrometry  
 (C) photometry (D) spectrometer
88. Triglycerides are broken down to  
 (A) Fatty acids (B) Amino acids  
 (C) Glycerol (D) **Fatty acid and glycerol**
89. OTEC involves thermal power generation from  
 (A) **Sea** (B) River  
 (C) Wetland (D) Lake
90. The Paithan (Jayakwadi) Hydro-electric project, completed with the help of Japan, is on the river-  
 (A) **Godavari** (B) Narmada  
 (C) Cauvery (D) Ganga
91. The down link frequency in the C-band transponder is  
 (A) 2 GHz (B) **4 GHz**  
 (C) 14 GHz (D) 11 GHz
92. Which company has retained its spot as the top-selling car-maker in World for third straight year?  
 (A) Volkswagen (B) **Toyota**  
 (C) Skoda (D) None of the above
93. The nitrogen fixation in a paddy field is brought about by  
 (A) **Bacteria** (B) Fern  
 (C) Cyano bacteria (D) Algae
94. A television (TV) transmission is an example of which type of transmission?  
 (A) **Simplex** (B) Half-duplex  
 (C) Full-duplex (D) Bidirectional
95. Which Indian has won the 2023 Ramon Magsaysay Award?  
 (A) **Ravi Kannan** (B) Gautam Adani  
 (C) Ghazal Alagh (D) Kailash Vidyarthi
96. An-type semiconductor is  
 (A) negatively charged.  
 (B) positively charged.  
 (C) **neutral.**  
 (D) negatively or positively charged depending upon the amount and substance of impurity.
97. What is the revised prize amount for Nobel Prize Winners, as of 2023?  
 (A) 1 million Swedish crowns  
 (B) **11 million Swedish crowns**  
 (C) 21 million Swedish crowns  
 (D) 31 million Swedish crowns
98. The usual pH of sea water ranges from  
 (A) **7.5-8.5** (B) 8.5-9.5  
 (C) 9.5-10.5 (D) 10.5-11.5
99. The damage induced by PAN is  
 (A) Skin cancer (B) Eye irritation  
 (C) **Both** (D) Liver cancer
100. The Electrostatic Precipitator is ideally used for the removal of which type of pollution?  
 (A) **Outdoor Air pollution**  
 (B) Indoor Air pollution  
 (C) Water pollution  
 (D) Odour pollution
101. At constant temperature, the graph between P (pressure) vs  $\frac{1}{V}$  (V= volume) of a real gas is  
 (A) hyperbola (B) parabola  
 (C) circle (D) **straight line**
102. Magnetic effect of current was discovered by  
 (A) Faraday (B) **Oersted**  
 (C) Ampere (D) Bohr

**[Note: Most common is Bacteria but Azolla as Fern and Cyano bacteria is also possible.]**

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103. The following Hepatitis virus is transmitted through blood.  
 (A) Hep. A (B) Hep. B  
 (C) Hep. C **(D) (B) and (C)**
104. The best quality coal is  
**(A) Anthracite** (B) Peat  
 (C) Bituminous (D) Lignite
105. World's 1st medicine from marijuana is named as  
 (A) Malarone (B) Effexor  
 (C) Absinthium **(D) Epidolex**
106. How many awards were won by West Bengal Government in the Scotch Governance Awards in 2021?  
 (A) 3 (B) 4  
**(C) 5** (D) 6
107. Which state is the largest producer of bamboo in India?  
 (A) Assam **(B) Arunachal Pradesh**  
 (C) Chhatishgarh (D) Karnataka
108. Which among the following part of Bombay (now Mumbai) is known as Old Woman's Island?  
 (A) Parel (B) Worli  
**(C) Colaba** (D) Mazgao
109. The least albedo is noted in case of  
 (A) Soil (B) Snow  
**(C) Asphalt** (D) Forest
110. Which scheme of West Bengal Government was awarded in the Digital India Mission.  
 (A) Shashthya Sathi (B) Shilpa Sathi  
 (C) Rupashree **(D) Duare Sarkar**
111. Alec Jeffery's name is associated with  
 (A) DNA sequencing  
**(B) DNA fingerprinting**  
 (C) RNA sequencing  
 (D) Site directed mutagenesis
112. The shape of the Diminishing Age Pyramid  
 (A) Triangular (B) Bell-shaped  
**(C) Urn-shaped** (D) None of these
113. The following ecosystem develops in flowing water:  
 (A) Lentic **(B) Lotic**  
 (C) Benthic (D) Pelagic
114. What is the name of world's first robotic check-in assistant, that was launched by Emirates?  
**(A) Sara** (B) Kiwi  
 (C) Siri (D) Rini
115. What is the name of the first female robot to be part of India's first manned space mission?  
 (A) Sangha mitra (B) Ganga mitra  
**(C) Vyom mitra** (D) Gagan mitra
116. UNCED was held in  
**(A) Rio** (B) Stockholm  
 (C) Oslo (D) London
117. Jadugoda mines are famous for  
 (A) iron ore. (B) mica deposits.  
 (C) gold deposits. **(D) uranium deposits.**
118. What do we see at speedometer of a car?  
 (A) Average speed  
 (B) Average velocity  
**(C) Instantaneous speed**  
 (D) Instantaneous velocity
119. The main objective(s) of industrial robot is to  
 (A) minimize the labour requirement.  
 (B) increase the productivity.  
 (C) enhance the life of production machines.  
**(D) All of the above**
120. Which type of modulation is employed in India for radio transmission?  
**(A) Amplitude modulation**  
 (B) Frequency modulation  
 (C) Pulse modulation  
 (D) Phase modulation
121. The latest Biosphere Reserve in India is  
 (A) Nilgiri  
 (B) Andaman and Nicobar  
 (C) Gulf of Mannar  
**(D) Panna**
122. In 2006, Nobel Prize for RNA Interference Phenomenon was won on the work carried out on  
 (A) *D. melanogaster* (B) *A. thaliana*  
**(C) C. elegans** (D) *S. pombe*

123. Which theorem law can explain the working principle of sprayer?  
 (A) Stoke's law (B) **Bernoulli's theorem**  
 (C) Jurin's law (D) Virial theorem
124. Which radioactive metal is responsible for Chernobyl accident?  
 (A) **Radioactive Uranium**  
 (B) Radioactive Coesium  
 (C) Radioactive Plutonium  
 (D) Radioactive Polonium
125. Sultan Azlan Shah Cup is related to which among the following sports?  
 (A) Badminton (B) **Hockey**  
 (C) Table Tennis (D) Golf
126. We keep food in refrigerator to prevent food from going bad due to  
 (A) viral infection. (B) fungal infection.  
 (C) bacterial infection. (D) **both (B) and (C)**
127. Kuno National Park is situated in  
 (A) **Madhya Pradesh** (B) Chattisgarh  
 (C) Gujarat (D) Uttarakhand
128. When is the first paper mill established in India?  
 (A) **1832** (B) 1849  
 (C) 1857 (D) 1861
129. ISRO launched sounding rocket for atmospheric studies. What is the name of the rocket?  
 (A) Car to Sat (B) Agni-IV  
 (C) **RH 300** (D) Brahmos-II
130. Which is not a constituent of cell membrane?  
 (A) Glycolipids (B) Phospholipids  
 (C) Cholesterol (D) **Proline**
131. Which book was written by Kalhana?  
 (A) Harshacharita (B) Arthashastra  
 (C) Indika (D) **Rajatarangini**
132. "The Last Ethic" is a book written by  
 (A) Leopold (B) Carson  
 (C) **Hardin** (D) White
133. Pressure within the lungs is called  
 (A) Inter-pulmonary pressure.  
 (B) **Intra-pulmonary pressure.**  
 (C) Interstitial pressure.  
 (D) Alveolar pressure.
134. Which sport's regional form is "Pehlwani"?  
 (A) Boxing (B) Football  
 (C) **Wrestling** (D) Badminton
135. 'Baibhav, Saurav and Gaurav' are the civilian awards provided by which state?  
 (A) Tamil Nadu (B) **Assam**  
 (C) Odisha (D) Jharkhand
136. Which structure has delocalized  $\pi$  electrons?  
 (A) **O<sub>3</sub>** (B) Co  
 (C) HCN (D) CO<sub>2</sub>
137. Which one of the following is more elastic  
 (A) Copper (B) Rubber  
 (C) Sponze (D) **Steel**
138. Who launched the Krishi Vikas Yojana  
 (A) Indian Council for Agricultural Research  
 (B) **National Development Council**  
 (C) State Bank of India  
 (D) State Agricultural Research Board
139. In a charged capacitor, the energy resides in  
 (A) positive charges.  
 (B) both positive and negative charges.  
 (C) **the field between the plates.**  
 (D) around the edge of the plates.
140. Who is the only living Indian to win the Grammy Award thrice?  
 (A) A R Rahman (B) **Ricky Kej**  
 (C) Resul Pookutty (D) Babbu Mann
141. The Global Warming Potential of CO<sub>2</sub> is  
 (A) **1** (B) 2  
 (C) 3 (D) 4
142. At which of the following places, noon sun shines exactly overhead twice a year?  
 (A) **Digha** (B) Patna  
 (C) Kanpur (D) Delhi
143. The following antibiotic is produced by bacteria:  
 (A) Penicillin (B) Chloramphenicol  
 (C) Bacitracin (D) Streptomycin

[Note: All the options (B), (C) & (D) are correct.]

144. Boron is useful for which of the following organ?  
 (A) Liver (B) Kidney  
 (C) Brain **(D) Bones**
145. Which of the following states shares the longest boundary with China?  
 (A) Sikkim (B) Uttarakhand  
 (C) Himachal Pradesh **(D) Arunachal Pradesh**
146. A 220 volt A.C. is more dangerous than 220 volt D.C. because  
 (A) the A.C. attracts.  
 (B) the D.C. repels.  
 (C) the body offers less resistance to A.C.  
**(D) peak voltage for A.C. is much larger than 220 volt.**
147. X-unit = ?  
 (A)  $10^{-15}\text{m}$  (B)  $10^{-12}\text{m}$   
 (C)  $10^{-10}\text{m}$  **(D)  $10^{-13}\text{m}$**
148. Which one of the following is most likely to exhibit Tyndall effect?  
 (A) Sugar and water mixture  
 (B) Potash alum and water mixture  
**(C) Chalk powder and water mixture**  
 (D) Potassium permanganate and water mixture
149. In which year, the first Women's Cricket World Cup was held?  
 (A) 1971 (B) 1972  
**(C) 1973** (D) 1974
150. Which of the following was the first made indigenous, coloured film in India?  
 (A) Alama Ara (B) Pather Panchali  
**(C) Kisan Kanya** (D) Devdas
151. 'Big Ben' is the famous clock located in which country?  
 (A) USA **(B) UK**  
 (C) Australia (D) France
152. The percentage of thermal power generated from coal in India at present is  
 (A) 50% (B) 57%  
 (C) 64% **(D) 74%**
153. The OTEC plant in India is located in  
 (A) Andaman and Nicobar Island  
**(B) Lakshadweep**  
 (C) Gujarat  
 (D) Odisha
154. Which of the following tribes of Uttarakhand is mainly associate themselves with sheep rearing?  
 (A) Boksha **(B) Bhotia**  
 (C) Raji (D) Tharu
155. Maximum application of animal cell culture technology today is in the production of  
 (A) Insulin (B) Interferons  
 (C) edible Proteins **(D) Vaccines**
156. Alternating current is transmitted to distant places at  
**(A) high voltage and low current.**  
 (B) high voltage and high current.  
 (C) low voltage and low current.  
 (D) low voltage and high current.
157. Nor'wester in Assam is known as by which of the following name?  
 (A) Andhi (B) Mango Shower  
**(C) Bordoisila** (D) Blossom
158. The following vitamin is produced in human body due to exposure to sunlight:  
 (A) Vit B<sub>6</sub> (B) Vit B<sub>1</sub>  
 (C) Vit C **(D) Vit D<sub>3</sub>**
159. Which among the following sectors used maximum commercial energy in India?  
 (A) Household sector (B) Agriculture  
**(C) Industry** (D) Transport
160. Deposit of Lithium has been found in which Indian state?  
 (A) Ladakh (B) Punjab  
 (C) Gujarat **(D) Jammu & Kashmir**
161. The Rowlatt Act was passed in  
 (A) 1905 (B) 1913  
**(C) 1919** (D) 1925
162. Reindeer moss is actually a member of  
 (A) Algae (B) Fungi  
 (C) Bryophyte **(D) Lichen**
163. Ecology was coined by  
**(A) Haeckel** (B) Odum  
 (C) Tausley (D) Darwin
164. What is the source of UV radiation?  
**(A) Hydrogen gas discharge lamp**  
 (B) RF oscillator  
 (C) Klystron oscillator  
 (D) Nernst filament

*Disclaimer : Every effort has been made to ensure that the answer keys provided herein are accurate to the best of our understanding. These are for reference purpose only and should not be considered as the official answers. The purpose is to help the examinees to analyse their performance in competitive examinations.*



165. Which of the following Indian states does not share boundary with Myanmar?  
**(A) Assam** (B) Manipur  
 (C) Nagaland (D) Aruanchal Pradesh
166. Hormone secretin is produced by  
 (A) Stomach (B) Liver  
**(C) Intestine** (D) Pancreas
167. The Principle of Controlled Chain Reaction is used in  
 (A) atom bomb.  
**(B) atomic energy reactor.**  
 (C) the core of sun  
 (D) artificial radioactivity.
168. Water purity is denoted by the absence of  
 (A) CO<sub>2</sub> (B) CO  
**(C) Coliform** (D) Entero bacter
169. What is the frequency of supply A.C. (current) in India?  
 (A) 220 Hz (B) 60 Hz  
**(C) 50 Hz** (D) 40 Hz
170. Which Indian was conferred the UNEP 'Champions of the Earth' Award in 2022?  
**(A) Purnima Devi Barman**  
 (B) Narendra Modi  
 (C) K. K. Shailaja  
 (D) Piyush Goyal
171. For which novel Nayantara Sahgal was awarded Sahitya Academy Award for English?  
 (A) A Time to be Happy (B) The Day in Shadow  
**(C) Rich Like Us** (D) None of the above
172. Who is the author of the book "India After Gandhi The History of the World's Largest Democracy"?  
 (A) Madhav Gandhi  
 (B) Romila Thapar  
**(C) Ramachandra Guha**  
 (D) Sujit Mukherjee
173. The first transgenic plant was produces  
 (A) Rice **(B) Tobacco**  
 (C) Maiz (D) Cotton
174. These days HFC is replaced by which gas in refrigerator?  
 (A) Toluene (B) Butane  
**(C) Isobutane** (D) Nitrobenzene
175. Who was the founder of Haryanka dynasty in India?  
**(A) Bimbisara** (B) Ajatashatru  
 (C) Harshabardhana (D) Ghanananda
176. IAEA looks after the safety for which type of pollution?  
 (A) Heavy Metals (B) Hydro carbon  
 (C) Plastic **(D) Radio active elements**
177. Which Greek Ruler sent Megasthenes in the Court of Chandragupta Mourya?  
**(A) Seleucas Nicator** (B) Antiochus  
 (C) Ptolemy (D) None of the above
178. Which of the following gases causes the formation of Carbamino haemoglobin?  
 (A) CO **(B) CO<sub>2</sub>**  
 (C) NO<sub>2</sub> (D) SO<sub>2</sub>
179. The NDRF is under which Ministry?  
**(A) Ministry of Home Affairs**  
 (B) Ministry of Environment and Forest  
 (C) Ministry of External Affairs  
 (D) Ministry of New and Renewable Energy
180. Which of the following phenomena is not common to sound and light waves?  
 (A) Interference (B) Diffraction  
**(C) Polarisation** (D) reflection
181. A non-volatile solid is added to water. Its boiling point will  
 (A) decrease. **(B) increase.**  
 (C) not change. (D) not to be predicted.
182. When light is refracted, which of the following does not change?  
 (A) Wavelength **(B) Frequency**  
 (C) Velocity (D) Amplitude
183. How many major forest groups are there in India?  
 (A) 3 (B) 4  
**(C) 5** (D) 6
184. The state in India having the highest number of wind mill is  
 (A) Karnataka (B) Gujarat  
**(C) Tamil Nadu** (D) Kerala

185. The average temperature of the Earth due to the albedo effect is  
 (A) 10°C (B) **15°C**  
 (C) 20°C (D) 25°C
186. Which one of the following is a novel by Rabindranath Tagore?  
 (A) Jagir (B) Durgeshnandini  
 (C) **Gora** (D) Ganadevata
187. What is the India's first nuclear reactor?  
 (A) RAMBHA (B) MENAKA  
 (C) URVASI (D) **APSARA**
188. What is the name of antibiotics that has been discovered to help in fighting drug resistant or hard-to-treat bacterial infections?  
 (A) Philo habdins (B) **Odilor habdins**  
 (C) Oli habdins (D) Ozor habdins
189. What is the amount of methane in cow dung?  
 (A) 30% (B) 40%  
 (C) **50%** (D) 60%
190. The use of living microorganism to degrade environmental pollutants is called  
 (A) microremediation. (B) nanoremediation.  
 (C) **bioremediation.** (D) All of the above
191. Which launcher was used for Chandrayaan-3?  
 (A) GSLV (B) LVSM  
 (C) **GSLV-MK 3** (D) PSLV
192. Which component is absent in animal cell membrane?  
 (A) Cholesterol (B) **Ergosterol**  
 (C) Phospholipid (D) Oligosaccharide
193. In which year Asoka invaded Kalinga?  
 (A) **261 BC** (B) 235 BC  
 (C) 275 BC (D) 251 BC
194. Artemesin is a drug used in  
 (A) Dengue (B) **Malaria**  
 (C) Typhoid (D) Pertussis
195. Quantity that remains unchanged in a transformer is  
 (A) Voltage (B) Current  
 (C) **Frequency** (D) Current density
196. The water which is available to plant roots is  
 (A) Gravitational water.  
 (B) Chemically combined water.  
 (C) Hygroscopic water.  
 (D) **Capillary water.**
197. Which was the India's first talkie film?  
 (A) **Alama Ara** (B) Pundlik  
 (C) Raja Harishchandra (D) Nal Damayanti
198. Who is the author of the book "The Idea of India"?  
 (A) **Sunil Khilnani** (B) Kiran Nagarkar  
 (C) Shiv K Kumar (D) None of the above
199. The maximum height of Troposphere from the Earth's surface is  
 (A) 10 Km (B) 12 Km  
 (C) 14.5 Km (D) **16.8 Km**
200. Which sport's competition was known as the "Friends Provident Trophy"?  
 (A) Football (B) Volleyball  
 (C) Squash (D) **Cricket**