

## WBCS Main Exam. – 2020 (Question Paper)

### Paper - IV

1. A piece of wire of resistance  $R$  is cut into three equal parts. These parts are then connected in parallel. If the equivalent resistance of this combination is  $R_1$ , then the ratio  $R/R_1$  is  
 (A)  $1/3$  (B) 1 (C) 3 (D) 9
2. The Nobel Prize in Physiology or Medicine in the year 2020 was awarded for  
 (A) the development of a method for genome editing.  
 (B) the discovery of Hepatitis C virus.  
 (C) the discovery of Hepatitis B virus.  
 (D) the discovery of directed evolution of enzymes.
3. The fundamental organisational unit of life is  
 (A) protein (B) cell  
 (C) DNA (D) RNA
4. Diamond and graphite are allotropes of  
 (A) Iron (B) Gold  
 (C) Carbon (D) Copper
5. Which of the following frequencies is not in the audible range of sound for human beings?  
 (A) 5Hz (B) 50Hz  
 (C) 120Hz (D) 100Hz
6. Consider the following statements  
 (i) An emf can be induced by moving a conductor in a magnetic field  
 (ii) An emf can be induced by changing the magnetic field.  
 (A) (i) is true but (ii) is false  
 (B) (ii) is true but (i) is false  
 (C) Both (i) and (ii) are false  
 (D) Both (i) and (ii) are true
7. Gravitational force on the surface of the moon is  
 (A)  $1/6$  of that on the surface of the earth.  
 (B)  $1/5$  of that on the surface of the earth.  
 (C)  $1/4$  of that on the surface of the earth.  
 (D)  $1/3$  of that on the surface of the earth.
8. Which of the following pairs represent units of the same physical quantity?  
 (A) Kelvin and Joule (B) Kelvin and Calorie  
 (C) Newton and Calorie (D) Joule and Calorie
9. The human eye forms the image of an object at its  
 (A) cornea (B) iris  
 (C) pupil (D) retina
10. Number of valence electrons in Cl-ion are  
 (A) 16 (B) 8  
 (C) 17 (D) 18
11. The chemical formula  $C_2H_5OH$  stands for  
 (A) Methane (B) Methanol  
 (C) Ethane (D) Ethanol
12. Tissue that connects muscle to bone in humans is known as  
 (A) Phloem (B) Adipose  
 (C) Tendon (D) Epithelial
13.  $Fe_2O_3 + 2Al \rightarrow Al_2O_3 + 2Fe$  This reaction is an example of a  
 (A) combination reaction  
 (B) double displacement reaction  
 (C) decomposition reaction  
 (D) displacement reaction
14. A person travelling on a straight line moves with a uniform speed  $v_1$  for a distance  $x$  and with a uniform speed  $v_2$  for the next equal distance. The average speed  $v$  is given by  
 (A)  $v = \frac{v_1 + v_2}{2}$  (B)  $v = \sqrt{v_1 v_2}$   
 (C)  $\frac{2}{v} = \frac{1}{v_1} + \frac{1}{v_2}$  (D)  $\frac{1}{v} = \frac{1}{v_1} + \frac{1}{v_2}$
15. The pH value of a neutral solution is  
 (A) 3 (B) 5  
 (C) 7 (D) 9
16. In summer, a mild wind is often found on the shore of a calm river. This is caused due to  
 (A) difference in thermal conductivity of water and soil.  
 (B) convection currents.  
 (C) conduction between air and the soil.  
 (D) radiation from the soil.
17. The first periodic table was given by  
 (A) Mendel (B) Mendeleev  
 (C) Bohr (D) Dalton
18. Which of the following is a wrong description of binding energy of a nucleus?  
 (A) It is the energy required to break a nucleus into its constituent nucleons.  
 (B) It is the energy made available when free nucleons combine to form a nucleus.  
 (C) It is the sum of the rest mass energies of its nucleons minus the rest mass energy of the nucleus.  
 (D) It is the sum of the kinetic energy of all the nucleons in the nucleus.

19. The reading in centigrade scale is  $(-40)^\circ$ . What is the corresponding reading in Fahrenheit scale?  
 (A)  $(-60)^\circ$  (B)  $(-40)^\circ$   
 (C)  $60^\circ$  (D)  $40^\circ$
20. The number of neutrons in Hydrogen nucleus is  
 (A) 0 (B) 1  
 (C) 2 (D) 3
21. How many atoms are there in one mole atom of an element?  
 (A)  $5.015 \times 10^{13}$  (B)  $6.022 \times 10^{23}$   
 (C)  $4.397 \times 10^{26}$  (D)  $6.589 \times 10^{20}$
22. Cell was discovered by  
 (A) Charles Darwin (B) Robert Hooke  
 (C) Gregor Mendel (D) Robert Brown
23. A porter lifts a luggage of 15 kg from the ground and puts it on his head 1.5m above the ground. The work done by him on the luggage is (given  $g = 10\text{ms}^{-2}$ )  
 (A) 25 joule (B) 125 joule  
 (C) 225 joule (D) 112.5 joule
24. Which of the following elements is a semiconductor?  
 (A) Aluminium (B) Mercury  
 (C) Silicon (D) Silver
25. In terms of basic units of mass ( $M$ ), length ( $L$ ) and time ( $T$ ) dimension of energy is  
 (A)  $ML^2T^{-2}$  (B)  $MLT$   
 (C)  $MLT^{-1}$  (D)  $ML^2T^{-2}$
26. The bacteria which causes peptic ulcer—  
 (A) *Lactobacillus acidophilus*  
 (B) *Helicobacter pylori*  
 (C) *Peptostreptococcus*  
 (D) *Streptococcus avium*
27. In one average-life of radioactive decay  
 (A) half the active nuclei decay.  
 (B) less than half the active nuclei decay.  
 (C) more than half the active nuclei decay.  
 (D) all the nuclei decay.
28. Einstein received Nobel Prize for his work on  
 (A) special theory of relativity  
 (B) general theory of relativity  
 (C) brownian motion (D) photo electric effect
29. What is the typical size of an atom?  
 (A) 1 meter (B)  $10^{-2}$  meter  
 (C)  $10^{-6}$  meter (D)  $10^{-10}$  meter
30. The quanta of light is called  
 (A) proton (B) photon  
 (C) phonon (D) neutron
31. When light is refracted, which of the following does not change?  
 (A) Frequency (B) Wavelength  
 (C) Velocity (D) Amplitude
32. Which of the following statements is not a correct statement about the trends when going from left to right across the periods of Periodic Table?  
 (A) The elements become less metallic in nature.  
 (B) The number of valence electrons increases.  
 (C) The atoms lose their electrons more easily.  
 (D) The oxides become more acidic.
33. Einstein proposed the idea of special theory of relativity in the year  
 (A) 1901 (B) 1903  
 (C) 1905 (D) 1907
34. The anther contains  
 (A) sepals (B) ovules  
 (C) pistil (D) pollen grains
35. What happens when dilute hydrochloric acid is added to iron fillings?  
 (A) Hydrogen gas and iron chloride are produced.  
 (B) Chlorine gas and iron hydroxide are produced.  
 (C) No reaction takes place.  
 (D) Iron Salt and Water are produced.
36. The first Nobel Prize in physics was awarded for the discovery of  
 (A) Photoelectric effect  
 (B) Atomic nucleus  
 (C) X-ray  
 (D) Special theory of relativity
37. Energy generation in stars take place mainly via  
 (A) nuclear fission  
 (B) chemical displacement reaction  
 (C) nuclear fusion  
 (D) chemical additive reaction
38. The gap between two neurons is called a  
 (A) dendrite (B) synapse  
 (C) axon (D) impulse
39. What is the typical size of a Prokaryotic cell?  
 (A) 1-10 meter (B) 1-10 millimeter  
 (C) 1-10 micrometer (D) 1-10 nanometer
40. Asexual reproduction takes place through budding in  
 (A) amoeba (B) yeast  
 (C) plasmodium (D) leishmania
41. The human eye can focus on objects at different distances by adjusting the focal length of the eye lens. This is due to  
 (A) presbyopia (B) accommodation  
 (C) near-sightedness (D) far-sightedness
42. The xylem in plants are responsible for  
 (A) transport of water. (B) transport of food.  
 (C) transport of amino acids.  
 (D) transport of oxygen.
43. Which of the following is a plant hormone?  
 (A) Insulin (B) Thyroxin  
 (C) Oestrogen (D) Cytokinin

44. Same mass of iron, copper, water and glycerine are heated to  $80^\circ$  centigrade. Which substance among these, will take largest time to cool down to  $20^\circ$ ?  
 (A) Iron (B) Copper (C) Water (D) Glycerine
45. The metal which can be easily cut with a knife—  
 (A) Paper (B) Silver (C) Sodium (D) Gold
46. Two isotopes have same  
 (A) mass number  
 (B) difference of neutron number and proton number  
 (C) neutron number  
 (D) proton number
47. In the Rutherford experiment towards the discovery of atomic nucleus the target used was  
 (A) Gold (B) Silver (C) Platinum (D) Copper
48. The kidneys in human beings are a part of the system for  
 (A) Excretion (B) Nutrition (C) Respiration (D) Transportation
49. A person clapped his hands near a cliff and heard the echo after 2s. What is the distance of the cliff from the person if the speed of the sound is taken as 346 meter/s?  
 (A) 173 meter (B) 346 meter (C) 692 meter (D) 1384 meter
50. An athlete completes one round of a circular track of diameter 200 m. What will be the distance covered (closest value among the options)?  
 (A) 528 meter (B) 628 meter (C) 314 meter (D) 1256 meter
51. Write the chemical formula of Magnesium chloride.  
 (A)  $MgCl$  (B)  $MgCl_2$  (C)  $MgCl_3$  (D)  $MgCl_4$
52. The age of our universe is closest to  
 (A) 13.8 years (B) 13.8 thousand years (C) 13.8 million years (D) 13.8 billion years
53. A metal sheet with a circular hole is heated the hole  
 (A) gets larger (B) gets smaller (C) remains of the same size (D) gets deformed
54. Uncertainty relation in quantum mechanics was proposed by  
 (A) Rutherford (B) Bohr (C) Heisenberg (D) Feynman
55. Electron was discovered by  
 (A) Bohr (B) Thomson (C) Planck (D) Heisenberg
56. The stars twinkle because of  
 (A) reflection (B) refraction (C) diffraction (D) interference
57. The breakdown of pyruvate to give carbon dioxide, water and energy takes place in  
 (A) cytoplasm (B) mitochondria (C) chloroplast (D) nucleus
58. PCR is a relatively simple and widely used molecular biology technique to amplify and detect DNA and RNA sequences. PCR stands for  
 (A) Protein chain reaction (B) Polymerase chain reaction (C) Polymerase carbon reaction (D) Protein carbon reaction
59. Which of the following is not a part of the female reproductive system in human beings?  
 (A) Ovary (B) Uterus (C) Vas deferens (D) Fallopian tube
60. Acceleration due to gravity of earth is maximum at  
 (A) the center of the earth.  
 (B) the midpoint of the center and the surface of the earth.  
 (C) the surface of the earth.  
 (D) a height equal to the radius of the earth from the surface of the earth.
61. The temperature, in centigrade scale, at which the density of water is maximum—  
 (A)  $100^\circ$  (B)  $44^\circ$  (C)  $4^\circ$  (D)  $0^\circ$
62. Which of the following parameters is the same for molecules of all gases at a given temperature?  
 (A) Mass (B) Speed (C) Momentum (D) Kinetic energy
63. Two bullets are fired simultaneously and horizontally from the same vertical height. The first bullet has mass and velocity  $m_1$  and  $v_1$  respectively and the second one has mass and velocity  $m_2$  and  $v_2$  respectively. Which bullet will hit the ground first?  
 (A) The faster one (B) The slower one (C) Both will reach simultaneously (D) Will depend on masses
64. At the time of short circuit, the current in the circuit  
 (A) reduces substantially (B) does not change (C) increases heavily (D) vary continuously
65. Which of the following is not an example of a bio-mass energy source?  
 (A) Wood (B) Gobar gas (C) Nuclear energy (D) Coal

66. Two resistors R and 2R are connected in series in an electric circuit. The thermal energy developed in R and 2R are in the ratio  
(A) 2:1 (B) 4:1  
(C) 1:4 (D) 1:2
67. The unit of density in CGS system is  
(A) gm/cm<sup>4</sup> (B) gm/cm<sup>3</sup>  
(C) gm/cm<sup>2</sup> (D) gm/cm
68. The nucleus of a living cell was discovered by  
(A) Charles Darwin (B) Robert Hooke  
(C) Gregor Mendel (D) Robert Brown
69. Penicillin was discovered by  
(A) Gregor Mendel (B) Francis Crick  
(C) James Watson (D) Alexander Fleming
70. A nucleus has 6 protons and 8 neutrons. The nucleus emits two  $\alpha$  particles. How many protons and neutrons will be left in the nucleus?  
(A) 2 and 4 (B) 2 and 2  
(C) 4 and 6 (D) 5 and 7
71. There were \_\_\_\_ Mahajanapadas in India (600BC-325BC)  
(A) 14 (B) 12  
(C) 16 (D) 20
72. \_\_\_\_ is called the 'Land of White Clouds'  
(A) New Zealand (B) Belgium  
(C) Sri Lanka (D) South Africa
73. \_\_\_\_ is the currency of Turkey.  
(A) Dirham (B) Zloty  
(C) Riyal (D) Lira
74. OH radicals in atmosphere play a role of  
(A) Scavenger (B) Acidifier  
(C) Reducing agent (D) Greenhouse gas
75. The widely-used aerobic suspension type of liquid waste treatment system is  
(A) Rotating Biological Contractor  
(B) Percolating filter  
(C) Activated Sludge process  
(D) Septic tank
76. 10 miles is equivalent to \_\_\_\_.  
(A) 12 km (B) 18 km  
(C) 14 km (D) 16 km
77. National Ambient Air Quality Standards for major pollutants were notified by CPCB in  
(A) 1994 (B) 1984  
(C) 2004 (D) 1974
78. Minamata disease is caused by  
(A) As vapour (B) Hg vapour  
(C) organic Hg (D) Dissolved As
79. The Saffron Revolution is associated with \_\_\_\_.  
(A) Egg (B) Oilseeds  
(C) Solar Energy (D) Onion
80. The Suez Canal opened for traffic in \_\_\_\_.  
(A) 1869 (B) 1700  
(C) 1800 (D) 1620
81. The name *Amoco Cadiz* is related with  
(A) Nuclear waste site (B) Oil slick  
(C) Toxic cloud (D) Forest fire
82. The Bhopal Disaster occurred on  
(A) December 3, 1984 (B) January 4, 1984  
(C) August 14, 1984 (D) None of the above
83. Sea water is  
(A) acidic (B) alkaline  
(C) neutral (D) hypotonic
84. Gobar gas contains mainly  
(A) Ethylene (B) Methane  
(C) Hydrogen and Ethylene  
(D) Hydrogen and Oxygen
85. Air pollutant causing left curling is  
(A) SO<sub>2</sub> (B) O<sub>3</sub>  
(C) H<sub>2</sub>S (D) CO
86. Bosphorous Strait joins \_\_\_\_  
(A) Black Sea and Marmara Sea  
(B) Tasman Sea and South Sea  
(C) Java Sea and Indian Ocean  
(D) Red Sea and Gulf of Aden
87. Black foot disease is caused by  
(A) excess of fluoride in water  
(B) deficiency of iodine in water  
(C) excess of arsenic in water  
(D) excess of iodine in water
88. Which pollution causes Jaundice?  
(A) Water (B) Air  
(C) Land (D) Thermal
89. The finest 'Glass Industry' is associated with \_\_\_\_.  
(A) France (B) Belgium  
(C) Germany (D) Italy
90. The deepest lake in the world is \_\_\_\_.  
(A) Titicaca (B) Baikal  
(C) Superior (D) Ontario
91. Lightning in the atmosphere produces  
(A) NO (B) CO  
(C) CO<sub>2</sub> (D) NH<sub>3</sub>
92. In turbidity analysis, formazin is used  
(A) to stabilize the samples.  
(B) to preserve the sample.  
(C) to make turbidity standard.  
(D) to remove colour interferences.
93. The term 'Bhugol' was first used in the book 'Surya Siddhanta' written by \_\_\_\_  
(A) Brahmagupta (B) Aryabhata  
(C) Bhaskaracharya (D) Varah Mihir
94. MPN (Most Probable Number) indicates  
(A) Thermal pollution (B) Air pollution  
(C) Faecal pollution (D) Industrial pollution

95. Right to information came into force on \_\_\_\_\_.  
 (A) 10/12/2005 (B) 12/10/2005  
 (C) 01/10/2005 (D) 15/01/2005
96. Which secondary pollutant is produced by UV rays of sun lights?  
 (A) SO<sub>2</sub> (B) CO  
 (C) Fluorides (D) O<sub>3</sub>
97. The major stratospheric ozone layer over Antarctica was discovered in  
 (A) 1983 (B) 1985  
 (C) 1987 (D) 1980
98. Peeling of Ozone umbrella is due to  
 (A) CFCs (B) PAN  
 (C) CO<sub>2</sub> (D) Coal burning
99. The treatment designed to remove non-biodegradable organic pollutants and mineral nutrients from waste water is  
 (A) Lagoons (B) Imhoff tank  
 (C) Secondary treatment (D) Tertiary treatment
100. Jar test is used to determine  
 (A) Turbidity of Water (B) Settling of solids  
 (C) Coagulant dose (D) Coagulant time
101. The Environmental Protection Act was enacted in  
 (A) 1986 (B) 1985  
 (C) 1987 (D) 1972
102. \_\_\_\_\_ takes only 9.9 hours for a complete rotation around its own axis.  
 (A) Jupiter (B) Mars  
 (C) Saturn (D) Neptune
103. Layer of Ozone is present in  
 (A) Stratosphere (B) Troposphere  
 (C) Thermosphere (D) Mesosphere
104. Banabhatta was the court poet of  
 (A) Harshavardhana (B) Kumarpala  
 (C) Rampala (D) Prithwiraja-III
105. Which species of chromium is toxic in water?  
 (A) Cr<sup>+2</sup> (B) Cr<sup>+3</sup>  
 (C) Cr<sup>+6</sup> (D) Cr<sup>0</sup>
106. Cyclone collector is used for minimizing  
 (A) Radioactive pollution  
 (B) Air pollution  
 (C) Noise pollution (D) Water pollution
107. Taiwan was earlier known as \_\_\_\_\_.  
 (A) Tai Pe (B) Hongkong  
 (C) Yangon (D) Formosa
108. Gol Gumbaz is in \_\_\_\_\_.  
 (A) Jaipur (B) Junagadh  
 (C) Bijapur (D) Gwalior
109. Result of Ozone hole is  
 (A) greenhouse effect  
 (B) global warming  
 (C) acid rain  
 (D) UV radiations reach the earth
110. Rajaji National Park is situated in  
 (A) Delhi (B) Uttarakhand  
 (C) Tamil Nadu (D) Karnataka
111. NITI Aayog was constituted on \_\_\_\_\_.  
 (A) 01/01/2016 (B) 10/10/2015  
 (C) 10/10/2016 (D) 01/01/2015
112. Venice of the East is \_\_\_\_\_.  
 (A) Shillong (B) Kolkata  
 (C) Allapuzha (D) Bengaluru
113. The city of Seven Hills is \_\_\_\_\_.  
 (A) Milan (B) Athens  
 (C) Barcelona (D) Rome
114. Lucknow is situated on the bank of \_\_\_\_\_.  
 (A) Gomati (B) Ganga  
 (C) Yamuna (D) Son
115. Photochemical smog is related to pollution of  
 (A) air (B) water  
 (C) soil (D) nostoc
116. Which one of the following is used as microbial indicator of water contamination?  
 (A) Coliform bacteria (B) Giardia  
 (C) Cryptosporidium (D) Tobacco mosaic virus
117. Pollutants in soil can be broken by microorganisms. The process is called  
 (A) Probiotics (B) Bioremediation  
 (C) Bio-augmentation (D) None of the above
118. \_\_\_\_\_ is known as 'The Father of History'.  
 (A) Nearchus (B) Herodotus  
 (C) Megasthenese (D) Von Ranke
119. Animal species protected in Kaziranga National Park is  
 (A) *Pantherleo* (B) *Rhinoceros unicornis*  
 (C) *Panther tigris* (D) *Macacamulatta*
120. BOD is related to  
 (A) detergents (B) putrescibility  
 (C) inorganic pollutants (D) organic pollutants
121. In which Industry, workers suffer from Byssinosis?  
 (A) Cardboard (B) Textile  
 (C) Plastic (D) Paper
122. Line joining places with equal temperature is called \_\_\_\_\_.  
 (A) Isotim (B) Isohyet  
 (C) Isobar (D) Isotherm
123. Most abundant pollutant in the atmosphere among hydrocarbon is  
 (A) methane (B) propane  
 (C) butane (D) bezypyrene
124. Nalgonda method was developed by Indian Scientist to remove which chemical species from water?  
 (A) Iron (B) Managanese  
 (C) Chromium (D) Fluoride



125. Which of the following is used as a coagulant for removal of phosphates in water? প্র্যাচিওর্স  
 (A) Aluminium sulphate (B) Iron carbonate  
 (C) Copper sulphate (D) Potassium chromate
126. Dr. Zakir Hussain was the \_\_\_\_ President of India.  
 (A) 3rd (B) 4th  
 (C) 2nd (D) 5th
127. 10°C is equivalent to \_\_\_\_.  
 (A) 55°F (B) 60°F  
 (C) 50°F (D) 52°F
128. Flame photometry is suitable method for the determination of  
 (A) heavy metals (B) dissolved gases  
 (C) dissolved organics (D) alkali metals
129. BOD stands for  
 (A) Biochemical Oxygen Demand  
 (B) Biotic Oxygen Dropping  
 (C) Biochemical Oxygen Dressing  
 (D) None of the above
130. \_\_\_\_ is known as the 'Morning Star' প্র্যাচিওর্স  
 (A) Mars (B) Moon  
 (C) Jupiter (D) Venus
131. Kanha National Park is situated in  
 (A) Assam (B) Rajasthan  
 (C) Uttar Pradesh (D) Madhya Pradesh
132. Which Vitamin was discovered by Henrik Dam?  
 (A) Vitamin K (B) Vitamin C  
 (C) Vitamine E (D) Vitamin A
133. 38th Parallel separates \_\_\_\_  
 (A) North Korea from South Korea  
 (B) Japan from North Korea  
 (C) New Zealand from Australia  
 (D) Vietnam from Kampuchia
134. Pink City refers to \_\_\_\_ প্র্যাচিওর্স  
 (A) Chitor (B) Udaipur  
 (C) Ajmer (D) Jaipur
135. The Namami Gange Scheme was announced on \_\_\_\_  
 (A) 07/07/2016 (B) 01/01/2016  
 (C) 01/03/2016 (D) 31/03/2016
136. Ozone day is  
 (A) January 30 (B) September 16  
 (C) April 21 (D) December 25
137. Cement dust is characterized by very fine particles. Which of the following air pollution control devices is appropriate for removing them from hot exhaust gases emanating from cement kiln?  
 (A) Bag house  
 (B) Cyclone  
 (C) Venture scrubber প্র্যাচিওর্স  
 (D) Electrostatic precipitator
138. Activated sludge is associated with management of waste and it is a kind of প্র্যাচিওর্স  
 (A) Chemical treatment (B) Mechanical means  
 (C) Biological treatment (D) Nuclear means
139. Strait of Gibraltar is known as \_\_\_\_.  
 (A) Pillars of Hercules (B) Pearl of Antilles  
 (C) Honeymoon Lake (D) None of the above
140. 49th Parallel separates \_\_\_\_.  
 (A) India from Pakistan (B) India from Tibet  
 (C) USA from Canada  
 (D) France from Germany
141. The National Highway linking Delhi-Agra-Kanpur-Varanasi-Kolkata is \_\_\_\_.  
 (A) NH-1 (B) NH-3  
 (C) NH-2 (D) NH-4
142. The headquarters of South Eastern Railway is at \_\_\_\_  
 (A) Kolkata (B) Kharagpur  
 (C) Bilaspur (D) Durgapur
143. \_\_\_\_ is known as the Hermit Kingdom. প্র্যাচিওর্স  
 (A) Nepal (B) Tibet  
 (C) Bhutan (D) Korea
144. Savannas are  
 (A) Tropical rain forests  
 (B) Desert scrubs  
 (C) Grassland with scattered trees  
 (D) Dense forest with closed canopy
145. For the detection of polyaromatic hydrocarbons which of the following instruments is used?  
 (A) Atomic absorption spectrophotometer  
 (B) X-ray Diffractometer  
 (C) Gas Chromatography  
 (D) Flame photometer
146. Technically, there are \_\_\_\_ Articles in the Constitution of India. প্র্যাচিওর্স  
 (A) 295 (B) 380  
 (C) 395 (D) 375
147. Queen of Adriatic is the nickname of \_\_\_\_.  
 (A) Rome (B) Paris  
 (C) Tokyo (D) Venice
148. *E. Coli* is used as an indicator organism to determine pollution of water with  
 (A) pollen of aquatic plants  
 (B) heavy metals  
 (C) faecal matter  
 (D) industrial effluents
149. Gate of Tears is in \_\_\_\_.  
 (A) New Delhi (B) Mumbai  
 (C) Jerusalem (D) Ahamedabad
150. Jawahar Lal Nehru port is in \_\_\_\_ প্র্যাচিওর্স  
 (A) Maharashtra (B) Goa  
 (C) Gujarat (D) Karnataka

151. Ozone undergoes photolysis due to ultra-violet radiations of wavelength  
 (A) <320 nm (B) <400 nm (C) <500 nm (D) <600 nm
152. The largest Tiger Reserve in India is \_\_\_\_\_.  
 (A) Sundarban (B) Periyar (C) Kanha (D) Nagarjunsagar Srisailam
153. Mango necrosis (Black Tip) is due to  
 (A) SO<sub>2</sub> (B) HCl (C) PAH (D) PAN
154. Kanha National Park is famous for  
 (A) Rhinoceros (B) Tiger (C) Birds (D) Crocodiles
155. Overgrazing causes  
 (A) Negative pollution (B) Positive pollution (C) Soil erosion (D) Reduction in crop yield
156. In which year Alexander Flemming discovered Penicilline?  
 (A) 1930 (B) 1928 (C) 1932 (D) 1934
157. Biome have  
 (A) plant communities (B) animal communities (C) trees only (D) Both (A) and (B)
158. MAB stands for  
 (A) Man and Biosphere (B) Man, Antibiotic and Bacteria (C) Man and Biotic Community (D) Mayer, Andersand and Bisby
159. \_\_\_\_\_ is known as 'The Father of Geography'  
 (A) Hipparchus (B) Hecatacuss (C) Ptolemy (D) Eratoshenes
160. Ultrafiltration can remove  
 (A) suspended solids (B) bacteria (C) protozoa (D) All of the above
161. When is International Yoga Day celebrated?  
 (A) June 21 (B) July 20 (C) March 21 (D) June 20
162. Who has won the Booker Prize 2020 for his debut novel "Shuggie Bain"?  
 (A) James Kelman (B) Marieke Lucas Rajneveld (C) Margaret Atwood (D) Douglas Stuart
163. Which port is renamed as Shyama Prasad Mukherjee Port?  
 (A) Paradeep (B) Kolkata (C) Chennai (D) Vishakhpatnam
164. When is the United Nations (UN)'s World Tsunami Awareness Day observed?  
 (A) November 1 (B) November 2 (C) November 3 (D) November 5
165. United Nations (UN)'s World Science Day for peace and Development is observed on which date?  
 (A) November 7 (B) November 10 (C) November 8 (D) November 9
166. Ministry of Shipping has been renamed as \_\_\_\_\_.  
 (A) Ministry of Ports (B) Ministry of Coast (C) Ministry of Waterways (D) Ministry of Ports, Shipping and Waterways
167. What is the name of the latest earth observation satellite launched by ISRO (November 2020) along with 9 international customer satellites from Andhra Pradesh?  
 (A) G Sat-30 (B) India Sat (C) EOS-1 (D) EOS-2
168. Which country named the Cyclone "Yaas"?  
 (A) Oman (B) India (C) Myanmar (D) Srilanka
169. Where will be United Nations (UN) Climate Conference also known as COP 26 held in 2021?  
 (A) Rome, Italy (B) Glasgow, United Kingdom (C) Madrid, Spain (D) Santiago, Chile
170. Which popular social media/messaging app got approval to launch a payment system on Unified payments interface (UPI) in the multi-bank model in India?  
 (A) Facebook (B) Telegram (C) Whatsapp (D) Instagram
171. ISRO plans to launch Venus mission name "Shukrayaan-1" by which year?  
 (A) 2024 (B) 2022 (C) 2021 (D) 2025
172. On which river is the Ratle Hydropower project located?  
 (A) Beas (B) Ravi (C) Chenub (D) Sutlej
173. Name the first Country to formally exit the Paris Climate Agreement (November 2020).  
 (A) China (B) United States (US) (C) India (D) Australia
174. Who has developed the new anti-covid drug "2-DG" in collaboration with DRL?  
 (A) DRDO (B) Bharat Biotech (C) ICMR (D) Serum Institute

175. India's first ever e-resource centre. 'Nyay Kaushal' has been inaugurated (October 31, 2020) in which State? প্র্যাচিভর্স  
 (A) Karnataka (B) Maharashtra  
 (C) Tamil Nadu (D) Gujarat
176. Shane Watson announced his retirement from all forms of Cricket. He belongs to which country?  
 (A) England (B) New Zealand  
 (C) Australia (D) South Africa
177. Name the first country to launch the world's first 6G satellite named "UESTC" satellite (Star Era-12) to test communications from space?  
 (A) China (B) United States (US)  
 (C) Japan (D) France
178. Who won the Dream 11 Indian Premier League 2020 (13th Edition of IPL) held in UAE? প্র্যাচিভর্স  
 (A) Delhi Capital (B) Chennai Superkings  
 (C) King XI Punjab (D) Mumbai Indians
179. Which Tiger Reserve received TX2 Tiger Conservation Awards 2020 for doubling the number of tigers in 4 years ahead of the target of 10 years?  
 (A) Nagarjunsagar-Srisailem Tiger Reserve, Andhra Pradesh  
 (B) Bor Tiger Reserve, Maharashtra  
 (C) Ambrabad Tiger Reserve, Hyderabad  
 (D) Pilibhit Tiger Reserve, Uttar Pradesh
180. Who became the fastest Indian spinner to claim 100 wickets in One Day Internationals?  
 (A) K Yadav (B) R Ashwin  
 (C) R Jadeja (D) Y Chahal
181. Who is now the CBI chief ? প্র্যাচিভর্স  
 (A) Rishi Kumar Shukla  
 (B) Alok Verma  
 (C) Subodh Kumar Jaiswal  
 (D) Kumar Rajesh Chandra
182. Which state reported the first confirmed coronavirus case in India?  
 (A) Odisha (B) Kerala  
 (C) Goa (D) Punjab
183. Which is 1st state in India to use Quick Deployment Antenna (QDA) technology for disaster management?  
 (A) Arunachal Pradesh (B) Uttarkhand  
 (C) Gujarat (D) Sikkim
184. Indira Gandhi Peace Prize, 2020 has been awarded to প্র্যাচিভর্স  
 (A) Donald Trump  
 (B) Sir David Attenborough  
 (C) Amitabh Bachchan  
 (D) Manmohan Singh
185. Alassane Outtara has been elected as President of which country?  
 (A) Turkey (B) Brazil প্র্যাচিভর্স  
 (C) Ghana (D) Ivory Coast
186. Who won the International Children's Peace Prize 2020?  
 (A) Greta Thunberg (B) Sadat Rahman  
 (C) Aava Murto (D) Khushi Chindaliya
187. Where the Second World Health Expo held in November 2020?  
 (A) Wuhan, China (B) Geneva, Switzerland  
 (C) New York, USA (D) New Delhi, India
188. Who has been appointed as the Chairman of the International Cricket Council (ICC)?  
 (A) Shashank Manohar (B) Manu Sawhney  
 (C) Imran Khwaja (D) Greg Barclay
189. Who authored the book titled "Pandemonium: The Great Indian Banking Tragedy"? প্র্যাচিভর্স  
 (A) Pradeep Srivastava  
 (B) Sarbpreet Singh  
 (C) Tamal Bandyopadhyaya  
 (D) Anand Neelakantan
190. The new National Education Policy (NEP) was passed by Government of India on  
 (A) 20 July, 2020 (B) 29 July, 2019  
 (C) 29 July, 2020 (D) 20 January, 2020
191. Which film won the 'Best Picture' award at the Oscars (93rd Academy Awards), 2021?  
 (A) Minari (B) The Father  
 (C) Nomadland (D) My Octopus Teacher
192. Where has been India's first solar-based intergrated Multi-Village Water Supply Project (IMVWSP) inaugurated? প্র্যাচিভর্স  
 (A) Gujarat (B) Assam  
 (C) Sikkim (D) Arunachal Pradesh
193. When was UN's International Day of Older Persons observed annually?  
 (A) October 2 (B) September 29  
 (C) October 1 (D) September 30
194. Who won the French Open, 2021 in the Men's Singles category?  
 (A) Rafael Nadal (B) Tsitispas  
 (C) Alexander Zverev (D) Novak Djokovic
195. Where is the World's largest care and cure centre for elephants being set up in India?  
 (A) Kerala (B) Meghalaya  
 (C) Chhattisgrah (D) Odisha
196. Where has India's First Moss Garden been inaugurated? প্র্যাচিভর্স  
 (A) Kevadia, Gujarat (B) Nainital Uttarkhand  
 (C) Mandi, Himachal Pradesh  
 (D) Subansiri, Anrunchal Pradesh



197. Foundation Day of NDRF was observed on  
 (A) January 20 (B) January 15  
 (C) January 23 (D) January 22
198. The Lai Haraoba festival is observed in \_\_\_\_\_.  
 (A) Mizoram (B) Sikkim  
 (C) Nagaland (D) Tripura
199. Roger Penrose, Reinhard Genzel, and Andrea Ghez have got the 2020 Nobel Prize in which field?  
 (A) Physics (B) Economics  
 (C) Medicine (D) Chemistry
200. Who has been named as the Brand Ambassador for Namami Gange Project during the Ganga Utsav, 2020?  
 (A) Amitabh Bachchan (B) Aamir Khan  
 (C) Akshay Kumar (D) Chacha Chaudhary



### Answers with Explanation

1. (D) Resistance of Wire - R, length = l  
 Cross section = A,  $R = \rho \frac{l}{A}$   
 P = Resistivity  
 Wire is cut into three equal parts.  
 Now, length =  $\frac{l}{3}$ , Resistance of each part  
 $= \rho \frac{l/3}{A} = \frac{\rho l}{3A} = \frac{R}{3}$   
 For parallel connection  
 $\frac{1}{R_1} = \frac{1}{R/3} + \frac{1}{R/3} + \frac{1}{R/3} = \frac{9}{R}$   
 Ratio of  $\frac{1}{R_1} = 9$
2. (B) The Nobel Prize in Physiology or Medicine 2020  
 Winners : (1) Harvey J. Alter (USA) (2) Michael Houghton (UK) (3) Charles M. Rice (USA).
3. (B) Cell : Cells form the structure of an entity. A group of cells form a tissue, further an organ and ultimately an organ system. They perform fundamental functions and life processes such as respiration, digestion, excretion etc in both unicellular and multicellular entities. They perform all the activities independently. Hence, cells are referred to as structural and fundamental units of life.
4. (C)  
 5. (A)  
 6. (D) Statement (i) is true, an emf can be induced by moving a conductor (length) with some velocity 'v' in a magnetic field 'B', it's given by  $e = Bvl$   
 (ii) is true, an emf can be induced by changing the magnetic field that causes the change in flux  $\theta$ , through a conductor or a loop. It is given by  $e = -\frac{d\theta}{dt}$
7. (A)  
 8. (D) 1 calorie = 4.2 Joule.  
 9. (D) retina  
 In human eye, the image of an object is formed at retina.  
 The retina acts as the screen over which the image of an object is formed
10. (B) Electron in outermost shell of 'Cl' is 7 'Cl' is 8  
 11. (D) ethanol  
 Ethanol has the chemical formula  $C_2H_5OH$  and it is a volatile, flammable and colorless liquid.
12. (C) tendon  
 A tendon or sinew is a tough high-tensile-strength band of dense fibrous connective tissue that connects muscle to bone.
13. (D)  
 14. (C)  $\leftarrow \begin{matrix} \times \\ \hline \end{matrix} \rightarrow$   
 $\begin{matrix} v_1 & v_2 \\ t_1 & t_2 \end{matrix}$   
 average speed (v) =  $\frac{\text{total distance}}{\text{total time}}$   
 $= \frac{x+x}{\frac{x}{v_1} + \frac{x}{v_2}} = \frac{2v_1v_2}{v_1+v_2}$   
 $\frac{1}{v} = \frac{v_1+v_2}{2v_1v_2}$  or,  $\frac{2}{v} = \frac{1}{v_1} + \frac{1}{v_2}$
15. (C) 16. (B) 17. (B) 18. (D) 19. (B)  
 20. (A) 21. (B)  
 22. (B) Robert Hooke  
 Robert Hooke (1665) is credited with the discovery of cell.

23. (C) Work done =  $15 \times 1.5 \times 10 = 225$  Joull
24. (C)
25. (D) প্র্যাচিভর্স
26. (B) Helicobacter pylori  
Causes of peptic ulcer : Large percentage of people who have ulcers have bacteria (Helicobacter pylori) in their stomach. H Pylori weakens the protective mucous coating of the stomach and duodenum.
27. (C) average lifetime =  $\frac{1}{k} = 1.44^{t_{1/2}}$   
I \_\_\_ higher than halflife
28. (D)
29. (D)
30. (B)
31. (A) Freavency remain constant as freavency is number of cycle's per second.
32. (C)
33. (C)
34. (D) pollen grains প্র্যাচিভর্স  
Stamen consists of basal stalk-like portion called filament and an apical. sac-like portion containing the pollen grains called anther.
35. (A)  $Fe + 2Hcl \rightarrow Fecl_2 + H_2$
36. (C)
37. (C)
38. (B) synapse  
Synapse is the point of contact between the terminal branches of the axon of a neuron with the dendrites of another neuron separated by a fine gap.
39. (C) Most prokaryotes are between  $1 \mu m$  and  $10 \mu m$ , but they can vary in size from  $0.2 \mu m$  to  $750 \mu m$ .
40. (B) Yeast is unicellular eukaryotic mocro-organisms belonging to the kingdom fungi. Most yeasts reproduce asexually by an asymmetric division process called budding. প্র্যাচিভর্স
41. (B) The process of focusing the eye to see objects at different distances is called accommodation. This is mainly brought about by a change in the curvature of the lens.
42. (A) Xylem. It is a water conducting complex tissue of vascular plants composed of four different types of cell elements, viz. tracheid, trachea, xylem fibre and xylem parenchyma.
43. (D) 1. Auxins  
2. Gibberellins  
3. Cytokinins  
4. Ethylene  
5. Abscisic acid প্র্যাচিভর্স
44. (C) Specific heat of water is greater than the other.
45. (C)
46. (D) প্র্যাচিভর্স
47. (A)
48. (A) Kidneys : These are the primary excretory organs eliminating nitrogenous wastes (chiefly urea) from the blood and throwing it out in the form of urine.
49. (B) Dis tan ce =  $\frac{Speed \times Time}{2} = \frac{346 \times 2}{2} = 246m$ .
50. (B)  $2 \times \frac{22}{7} \times 200 = 628m$ .
51. (B) 52. (D) 53. (A) 54. (C) 55. (B)
56. (B)
57. (B) The break down of Pyruvate to give Carbon dioxide, energy and water which takes place in the presence of Oxygen is termed as aerobic respiration. This process takes place in the Mitochondria of a cell. প্র্যাচিভর্স
58. (B) Polymerase chain reaction (PCR) is a method widely used to rapidly make millions to billions of copies (complete copies or partial copies) of a specific DNA sample, allowing scientists to take a very small sample of DNA and amplify it (or a part of it) to a large enough amount to study in detail.
59. (C) Female Reproductive System  
The female reproductive system consist of the following reproductive organs.  
1. ovaries.  
2. oviducts (or Fallopian tubes) to convey the egg released from the overy.  
3. A sac-like or pear-shaped uterus for the growth and development of the embryo developed from the egg.  
4. vagina, and  
5. Vulva, the outermost part. প্র্যাচিভর্স
60. (C)
61. (C)
62. (D) Temperature is the only factor that determines the kinetic energy of the molecules for the particular sample of gas.
63. (C)  $t = \sqrt{\frac{2H}{g}}$  There is only horizontal component of velocity, no vertical component, acceleration 'g' is also same for both bullets, they will reach the ground at the same time. Both bullet one fired simultaneously, they reach the ground simultaneously. প্র্যাচিভর্স

64. (C) 65. (C) 66. (D) 67. (B)
68. (D) Robert Brown, a botanist, first noticed the presence of nucleus in the cells and named it in 1831. শ্রীচিভর্ষ
69. (D) Penicillin was discovered in 1928 by Scottish scientist Alexander Fleming.
70. (A)
71. (C)
72. (A) Land of White Clouds called New Zealand.  
New Zealand – Capital–Wellington, Currency–Dollar
73. (D) Currency of Turkey–Lira  
Turkey–Capital–Ankara President–Recep Tayyip Erdogan. শ্রীচিভর্ষ
74. (A) The hydroxyl radical is often referred to as the detergent of the troposphere because it reacts with many pollutants, decomposing them, often acting as the first step to their removal. It also has an important role in eliminating some greenhouse gases like methane and ozone, as well as inactivating pathogenic viruses and bacteria.
75. (C) 76. (D) 77. (A) 78. (B)
79. (C) The Saffron Revolution is associated with – Solar Energy.  
\* Silver Revolution – Egg Production, \* Yellow Revolution – Oil Seeds \* Pink Revolution – Onion Production.
80. (A)
81. (B) শ্রীচিভর্ষ
82. (A) The Bhopal disaster, also referred to as the Bhopal gas tragedy, was a gas leak incident on the night of 2-3 December 1984 at the Union Carbide India Limited (UCIL) pesticide plant in Bhopal, Madhya Pradesh, India.
83. (B)
84. (B) Gobar gas is a form of biogas and it is a renewable energy source produced by the breakdown of organic matter by certain bacteria under anaerobic conditions.  
The major constituent of biogas with their percentage is given below :  
Methane (CH<sub>4</sub>) – 50 - 75%  
Carbondioxide (CO<sub>2</sub>) – 25 - 50% শ্রীচিভর্ষ  
Nitrogen (N) – 20 - 10%  
Hydrogen (H<sub>2</sub>) – 0 - 1%
85. (A) Sulphur dioxide is the major air pollutant released from the vehicular emissions, industrial emissions, smelting of the sulphide ores etc. It has a deleterious effect on the leaves of the plants. It causes bleaching of the chlorophyll pigment resulting in the chlorosis, inward curling of the leaves along the margins, premature fall etc.
86. (A) শ্রীচিভর্ষ
87. (C) Chronic exposure leads to hyperpigmentation leading to black foot disease.
88. (A) Jaundice is the illness of the liver characterized by the inability of the liver to break down the yellow-pigment called bilirubin. Jaundice can occur due to many reasons but the infection of hepatitis virus consumed via contaminated water is the major cause worldwide.
89. (B) The finest 'Glass Industry' is associated with Belgium. শ্রীচিভর্ষ
90. (B) The Deepest Lake in the world is Baikal. Baikal Lake also longest freshwater lake in the world (by volume) located in Serbia (Russia), become UNESCO world heritage site in 1996.
91. (A) The rapid heating and cooling of the gases within a lightning bolt produces nitric oxide (NO), which combines with oxygen to create nitrogen dioxide (NO<sub>2</sub>), especially when it's moving downwind.
92. (C)
93. (A)
94. (C) MPN is most commonly applied for quality testing of water i.e. to ensure whether the water is safe or not in terms of bacteria present in it. A group of bacteria commonly referred to as fecal coliforms act as an indicator of fecal contamination of water. শ্রীচিভর্ষ
95. (B) Right to information came into force —  
(B) Enacted:– 15 June 2005, Assented: 22 June 2005, Commenced: 12 Oct 2005.
96. (D) Tropospheric Ozone is majorly formed when various elements such as volatile organic compounds, CO NO<sub>2</sub>, etc. react in the presence of sunlight. Unlike stratospheric ozone, which protects the planet from the ultraviolet radiation of the sun, this is harmful. So, it is a secondary pollutant.
97. (B) An ozone hole was discovered over Antarctica by Farman in 1985. শ্রীচিভর্ষ
98. (A) Ozone umbrella mostly occurs in the stratosphere layer in our earth. The main cause of the depletion of ozone is caused by the CFCs.
99. (D) Tertiary treatment is the final cleaning process that improves wastewater quality before it is reused, recycled or discharged to the environment.

- The treatment removes remaining inorganic compounds, and substances, such as the nitrogen and phosphorus.  
Bacteria, viruses and parasites, which are harmful to public health are also removed at this stage.
100. (C) প্র্যাচিভর্স
101. (A) In the wake of the Bhopal gas Tragedy or Bhopal Disaster, the [Government of India] enacted the Environment Protection Act of 1986.
102. (A)
103. (A) The ozone layer or ozone shield is a region of Earth's stratosphere that absorbs most of the Sun's ultraviolet radiation.  
The ozone layer was discovered in 1913 by the French physicists Charles Fabry and Henri Buisson.
104. (A)
105. (C) Chromium toxicity refers to any poisonous toxic effect in an organism or cell that results from exposure to specific forms of chromium—especially hexavalent chromium.  
Hexavalent chromium, also called chromium (VI), is hemotoxic, genotoxic and carcinogenic. When hexavalent chromium enters the bloodstream, it damages blood cells by causing oxidation reactions.
106. (B) Air pollution প্র্যাচিভর্স  
Cyclone collectors :- They cause setting down of particulate matter through centrifugation.
107. (D) Taiwan was earlier known as Formosa.  
Taiwan Capital: Taipei, Currency—Dollar.
108. (C) Gol Gumbaz is in Bijapur.  
Its memory 'Circular Dome' Height - 51 m (167ft 4').
109. (D) If there is an ozone hole the harmful UV rays will enter the Earth's atmosphere and cause damage to living organisms.
110. (B) Rajaji National Park is situated in the state of Uttarakhand.
111. (D) NITI Aayog was constituted on 01/01/2015.  
(D) Present vice chairman - Rajiv Kumar  
Present CEO – Amitabh Kant প্র্যাচিভর্স
112. (C) Venice of the East is Allapuzha.  
Located in Kerala 'Allapuzha' also known as Alleppey.
113. (D) City of Seven Hills is Rome.  
Capital city of Italy, Italy-Currency-Euro  
President:-Sergio Mattarella
114. (A) Lucknow is situated on the bank of Gomoti River.
- \* Delhi located in the bank of River-Yamuna.  
\* Kanpur, Varanasi, Bhagalpur located in the bank of Ganga, Sidhi, Dehri, Patna located in the bank River-Son. প্র্যাচিভর্স
115. (A) Photochemical smog is formed by a complex series of chemical reactions involving sunlight, oxides of nitrogen and volatile organic compounds that are present in the atmosphere as a result of air pollution.
116. (A) The presence of bacteria commonly found in human feces, termed coliform bacteria (e.g. E coli), in surface water is a common indicator of faecal contamination.
117. (B) Bioremediation is process used to treat contaminated media, including water, soil and subsurface material, by altering environmental conditions to stimulate growth of microorganisms and degrade the target pollutants.
118. (B)
119. (B) Kaziranga National Park is a national park of the state of Assam, India. The sanctuary, which hosts two-thirds of the world's great one-horned rhinoceroses, is a World Heritage Site.
120. (D) Biochemical oxygen demand or BOD is the oxygen in milligrams required for five days in one litre of water at 20°C for the microorganisms to metabolise organic pollutants. প্র্যাচিভর্স
121. (B) Byssinosis is an occupational lung disease caused by exposure to cotton dust in inadequately ventilated working environments. Byssinosis commonly occurs in workers who are employed in yarn and fabric manufacture industries.
122. (D)
123. (A) Methane (CH<sub>4</sub>), the simplest hydrocarbon, is the most abundant hydrocarbon pollutant.
124. (D)
125. (A) প্র্যাচিভর্স
126. (A) Dr. Zakir Husain was the 3rd President of India.  
Time (13 May 1967 - 3rd May 1969), also 2nd Vice President in India (13 May 1962-12 May 1967) Received Bharat Ratna – 1963.
127. (C)
128. (D)
129. (A) Biochemical oxygen demand or BOD is the oxygen in milligrams required for five days in one litre of water at 20°C for the microorganisms to metabolise organic pollutants.

130. (D) \_\_\_ is, known as the 'Morning Star' – Venus is the closest planet to earth as second planet from the sun, in our solar system. It appears first morning before the sun rises as first in the evening after sunset. শ্রীচিভর্ষ
131. (D) Kanha National Park is, situated on Created - 1933, National Park -1955, As Tiger Reserve-1974.
132. (A) He was awarded the Nobel Prize in Medicine in 1943 for joint work with Edward Doisy in discovering vitamin K and its role in human physiology.
133. (A) 38th Parallel separates \_\_  
 (\*) North and South Vietnam – 17th Parallel  
 (\*) 24th Parallel – India & Pakistan
134. (D) Pink City refers to –Jaipur. Became UNESCO world heritage site on 6th July 2019. শ্রীচিভর্ষ
135. (A)
136. (B) September 16 was designated by the United Nations General Assembly as the International Day for the Preservation of the Ozone Layer.
137. (D) Electrostatic Precipitators:- these are electrically charged plates or electrodes which remove most of the particles present in chimney exhausts.
138. (C) The activated sludge process is a type of wastewater treatment process for treating sewage or industrial wastewaters using aeration and a biological floc composed of bacteria and protozoa.
139. (A) 140. (C) 141. (C) 142. (A) 143. (D)  
 144. (C)
145. (C) PAH or Nitro PAH mostly analyzed by gas chromatography with flame ionization detection.
146. (C)
147. (D) শ্রীচিভর্ষ
148. (C) The presence of coliform bacteria, such as *E. coli*, in surface water, is a common indicator of fecal contamination.
149. (C) Gate of Tears is in Gujrat.
150. (A) Jawahar Lal Neheru Port is in \_\_  
 Located in Navi Mumbai's Raigod District, Maharashtra, established 26 may 1989.
151. (A) Photolysis occurs in the atmosphere as part of a series of reactions by which primary pollutants such as hydrocarbons and nitrogen oxides react to form secondary pollutants such as peroxyacyl nitrates. শ্রীচিভর্ষ  
 The most important photodissociation reaction in the troposphere is  $O_3 + h\nu \rightarrow O_2 + O(^1D) \lambda < 320nm$ .
152. (D) Nagarjunsagar - Srisailem Tiger Reserve is the largest tiger reserve in India. শ্রীচিভর্ষ
153. (A) Black tip is a serious disorder that occurs in orchards located close to brick-kilns. Gases like carbon monoxide, sulphur dioxide and ethylene constituting the fumes from brick kiln are known to damage growing tip of fruits and give rise to the symptoms of black tip.
154. (B)
155. (C) Overgrazing typically increases soil erosion. Reduction in soil depth, soil organic matter and soil fertility impair the land's future natural and agricultural productivity.
156. (B) Penicillin was discovered in 1928 by Scottish scientist Alexander Fleming.
157. (D) Biome is a large collection of flora and fauna occupying a major habitat. শ্রীচিভর্ষ
158. (A) Man and the Biosphere Programme (MAB) is an intergovernmental scientific program, launched in 1971 by UNESCO.
159. (B)
160. (D) Ultrafiltration removes bacteria, protozoa and some viruses from the water.
161. (A) International Yoga Day observed on 21 June. Theme 2021 – 'Yoga for well being'.
162. (D) Booker Prize 2020 for his debut Novel 'Shuggie Bain' – Scottish American writer, Booker Prize established in 1969.
163. (B) The Kolkata Port renamed as 'Shyama Parasad Mukherjee' Port .  
 Renamed on 12 January 2020 on the occasion of 150 years of operation.
164. (D) November 5 UN World Tourism Awareness day has been observed continuously every year since 2015.
165. (B) শ্রীচিভর্ষ
166. (D)
167. (C) From Satish Dhawan Space Centre, Sriharikota, Andrapradesh at 3.12 pm.
168. (A) 'Yaas' meaning the flower Jasmine in English, has its origin in the Persian language.
169. (B) Cop 26 held 2021 in Glasgo, United Kingdom. Cop 25 held in – Madrid (Spain) or Santiago (Chili).
170. (C)
171. (D) শ্রীচিভর্ষ
172. (C) Type - 4 × 205 MW, 1 × 30 MW Francis-type, Located in Drabshalla, Kishtwar district, Jammu and Kashmir.
173. (B) Drafted – 30 November – 12 December 2015 in Le Bourget, France Signed – 4th April 2016, Location – Paris, France Effective – 4th November 2016.



174. (A) Launched by Dr. Harsh Vardhan (Ministry of Health & Family Welfare) and Rajnath Singh (Ministry of Defence).  
The Drug to reduce average recovery time by 2.5 days and oxygen demand by 40%.  
অ্যাচিভমেন্ট
175. (B)
176. (C) Nick name – Watto, He was the world No. 1 T20 all rounder for 150 weeks.
177. (A)
178. (D) Mumbai Indians is most successful IPL team, having won five times (2013, 2015, 2017, 2019, 2020).
179. (D) It was declared as the 46th Tiger Reserve in June 2014.
180. (A) He takes only 58 matches.  
অ্যাচিভমেন্ট
181. (C) Formed as the Special Police establishment in 1942, but as CBI came into operation in 1963. Motto: Industry, Impartiality, Integrity.
182. (D)
183. (B)
184. (B) First Awarded – 1986, Awarded for – outstanding contribution in Peace. Devid Attenborough received Kalinga Prize in 1981.
185. (D) Ivory Coast – Capital – Yomoussoukro, Currency -CFA franc.
186. (B) First Awarded -2005, Given from- Amsterdam, Netherlands.
- Given for - Outstanding Contribution in advocating Children's Rights.
187. (A)
188. (D) ICC-Formed - 15 June 1909 Headquarters - Dubai (UAE)
189. (C)  
অ্যাচিভমেন্ট
190. (C)
191. (C) Director–Chloe Zhao
192. (D) Total Cost of the Project – 28.50 Crore. To supply water in 39 villages of Lower Dibang Valley District.
193. (C) Theme: 2021 – Digital Equity for all ages.
194. (D) Defeated – Stefanos Tsitsipas (Greece).
195. (A) At Kottor in Thiruvananthapuram, Kerala.
196. (B) At Lingadhar village, Khurpatal, Nainital, (Uttarakhand).
197. (A) NDRF came into existence on January 19, 2006.
198. (D) other Festival of Tripura – Garia, Kharchi, Pilak.
199. (A) Roger Penrose – Discovered the black hole formation.  
অ্যাচিভমেন্ট  
Reinhard Genzel & Andrea Ghez – Discovered Supermassive compact object at the centre of our Galaxy.
- 200.(D) Chacha Chaudhary is an Indian Comic book Character created by cartoonist Pran Kumar Sharma.