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WBCS (Mains)

**Previous Year Paper
(28 Aug 2021) 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

- (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) 5 Hz
- (B) 50 Hz
- (C) 500 Hz
- (D) 5000 Hz

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) $\frac{1}{v} = \frac{1}{v_1} + \frac{1}{v_2} \Rightarrow \frac{v_2 + v_1}{v_1 v_2} = \frac{2}{v}$

$\frac{2 \cdot v_1 \cdot v_2}{v_1 + v_2} = v$

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 → ~~भारतीय~~
 (B) Mendeleev → ~~मोस्कोव~~
 (C) Bohr
 (D) Dalton → Atomic structure

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° . What is the corresponding reading in Fahrenheit scale?

- (A) -60°
 (B) -40°
 (C) 60°
 (D) 40°

$\frac{C}{5} = \frac{F - 32}{9}$

20. The number of neutrons in Hydrogen nucleus is

- (A) 0
 (B) 1
 (C) 2
 (D) 3

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21. How many atoms are there in one mole atom of an element?

- (A) 5.015×10^{15}
 (B) 6.022×10^{23}
 (C) 4.397×10^{26}
 (D) 6.589×10^{20}

6.022×10^{23}
 5177724

22. Cell was discovered by

- (A) Charles Darwin
 (B) Robert Hooke
 (C) Gregor Mendel
 (D) Robert Brown

23. A porter lifts a luggage of 15kg 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

15 kg
 1.5 m

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^{-1}
 (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

Please Turn Over

41. The human eye can focus on objects at different distances by adjusting the focal length of the eye lens. This is due to

- 67 →
- (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° centigrade. Which substance among these, will take largest time to cool down to 20°?

- (A) Iron
- (B) Copper
- (C) Water ✓
- (D) Glycerine

45. The metal which can be easily cut with a knife —

- 90000
- (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 ✓

$$692 \times 2 = 1384$$

50. An athlete completes one round of a circular track of diameter 200m. What will be the distance covered (closest value among the options)?

- (A) 528 meter
- (B) 628 meter ✓
- (C) 314 meter
- (D) 1256 meter

$$2 \times \frac{3.14}{2} \times 200 = 628.00$$

51. Write the chemical formulae of Magnesium chloride.

- (A) MgCl
 (B) MgCl₂
 (C) MgCl₃
 (D) MgCl₄

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.

Please Turn Over

61. The temperature, in centigrade scale, at which the density of water is maximum —

- (A) 100°
 (B) 44°
 (C) 4° ✓
 (D) 0°

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^3
 (B) gm/cm^2
 (C) gm/cm^2 ✓
 (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 α 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

$2 \times 2 = 4$
 $6 - 4 = 2$
 $8 - 4 = 4$

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 leaf curling is
- (A) SO_2
 - (B) O_3
 - (C) H_2SO_4
 - (D) HNO_3

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) CO₂
 (D) NH₃ ✓

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) 15/11/2005

96. ✓ Which secondary pollutant is produced by UV rays of sun lights?

- (A) SO₂
 (B) CO
 (C) Fluorides
 (D) O₃ ✓

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) CO₂
 (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

Please Turn Over

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) Ramapala
- (D) Prithwiraja-III

105. Which species of chromium is toxic in water?

- (A) Cr^{+2}
- (B) Cr^{+3}
- (C) Cr^{+6} ✓
- (D) Cr^0

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 ✓
↳ more specific effect

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) Bercelona
- (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) Megasthenes
- (D) Von Ranke

119. Animal species protected in Kaziranga National Park is _____

- (A) Pantherleo
- (B) Rhinoceros unicornis
- (C) Panther tigris
- (D) Mucacamulata

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) Manganese
- (C) Chromium
- (D) Fluoride

125. Which of the following is used as a coagulant for removal of phosphates in water?

- (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

$$\frac{210}{9} = \frac{F-32}{9}$$

$$F-32 = 18$$

$$F = 32+18 = 50^{\circ}$$

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

Biological

130. _____ is known as the "Morning Star".

- (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) Vitamin 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 _____

- (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

MM

✓ 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
 ✓ (D) Electrostatic precipitator

✓ 138. Activated sludge is associated with management of waste and it is a kind of

- (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.

- (A) Nepal
 (B) Tibet
 (C) Bhutan
 (D) Korea ✓

✓ 144. Savannahs are

- (A) Tropical rain forests
 (B) Desert scrubs
 ✓ (C) Grassland with scattered trees
 (D) Dense forests 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

Please Turn Over

146. Technically, there are _____ Articles in the Constitution of India.

- (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) Ahmedabad

150. Jawahar Lal Nehru port is in _____

- (A) Maharashtra ✓
- (B) Goa
- (C) C-India
- (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 Srisailem ✓

153. Mango necrosis (Black Tip) is due to

- (A) SO₂
- (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

CA starts

157. Biome have

- (A) plant communities
- (B) animal communities
- (C) trees only
- 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) Hecataeuss
- (C) Ptolemy
- (D) Eratosthenes

160. Ultrafiltration can remove

- (A) suspended solids
- (B) bacteria
- (C) viruses
- (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 Rijneveld
- (C) Margaret Atwood
- (D) Douglas Stuart

163. Which port is renamed as Shyama Prasad Mukherjee Port?

- (A) Paradeep
- (B) Kolkata
- (C) Chennai
- (D) Vishakhapatnam

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

Please Turn Over

166. Ministry of Shipping has been renamed as

- C-4
COMMENT
- (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?

- CK+
- (A) G Sat-30
(B) India Sat
(C) EOS-1
(D) EOS-2

168. Which country named the Cyclone "Yaas"?

- CK+
- (A) Oman
(B) India
(C) Myanmar
(D) Sri Lanka

169. Where will be United Nations (UN) Climate Conference also known as COP 26 held in 2021?

- CK+
- (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?

- CK+
- (A) Facebook
(B) Telegram
(C) WhatsApp
(D) Messenger

171. ISRO plans to launch Venus mission named "Shukrayaan-1" by which year?

- 9/20/20
- (A) 2024
(B) 2022
(C) 2021
(D) 2025

172. On which river is the Ratle Hydropower project located?

- COMMENT
- (A) Beas
(B) Ravi
(C) Chenab
(D) Sutlej

173. Name the first Country to formally exit the Paris Climate Agreement (November 2020).

- COMMENT
- (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?

- 9/20/20
- (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?

- 9/20/20
- (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?

- See ?
- (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 Dream11 Indian Premier League 2020 (13th Edition of IPL) held in UAE?

- (A) Delhi Capital
- (B) Chennai Superkings
- (C) Kings 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?

- Common
- (A) Nagarjunsagar-Srisailem Tiger Reserve, Andhra Pradesh
 - (B) Bor Tiger Reserve, Maharashtra
 - (C) Amrabad Tiger Reserve, Hyderabad
 - (D) Pilibhit Tiger Reserve, Uttar Pradesh

180. Who became the fastest Indian spinner to claim 100 wickets in One Day Internationals?

- 27000
- (A) K Yadav
 - (B) R Ashwin
 - (C) R Jadeja
 - (D) Y Chahal

181. Who is now the CBI chief?

- COMMON
- (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?

- 29000
- (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?

- 29000
- (A) Arunachal Pradesh
 - (B) Uttarakhand
 - (C) Gujarat
 - (D) Sikkim

184. Indira Gandhi Peace Prize, 2020 has been awarded to

- ?
- (A) Donald Trump
 - (B) Sir David Attenborough
 - (C) Amitabh Bachchan
 - (D) Manmohan Singh

185. Alassane Ouattara has been elected as President of which country?

- 29000
- (A) Turkey
 - (B) Brazil
 - (C) Ghana
 - (D) Ivory Coast

Please Turn Over

186. Who won the International Children's Peace Prize 2020?

- (A) Greta Thunberg
 (B) Sadat Rahman
 (C) Aava Murto
 (D) Khusi Chindaliya

187. Where was 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"?

- (A) Pradeep Srivastava
 (B) Sarbpreet Singh
 (C) Tamal Bandyopadhyay
 (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 Integrated Multi-Village Water Supply Project (IMVWSP) inaugurated?

- (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) Tsitsipas
 (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) Chhattisgarh
 (D) Odisha

196. Where has India's First Moss Garden been inaugurated?

- (A) Kevadia, Gujarat
(B) Nainital, Uttarakhand
(C) Mandi, Himachal Pradesh
(D) Subansiri, Arunachal 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