

GK SCIENCE

GK Science Worksheet – 14/05/2024

For students preparing for MAH-B.BCA/BBA/BMS/BBM CET 2024 for admission to BCA, BBA, BMS, BBM

1. Which of the following is used as 'a moderator in nuclear reactor?

Graphite

A nuclear reactor is a system that contains and controls sustained nuclear chain reactions.

Neutron Moderators

A Neutron moderator is a medium that reduces the speed of fast neutrons i.e., nuclear chain reaction.

Moderators are like accelerators.

Commonly used moderators

Regular light water

Solid graphite

Heavy water

2. Which planet looks reddish in the night sky?

Mars

3. The improper function of which results in condition 'Myxedema' in human beings?

Thyroid gland

Myxedema is a condition that occurs when the thyroid gland doesn't function properly, resulting in severe hypothyroidism.

4. In 1610, Galileo Galilei discovered four moons of which planet?

Jupiter

On January 7, 1610, Italian astronomer Galileo Galilei discovered, using a homemade telescope, four moons orbiting the planet Jupiter.

The most massive of the moons are the four Galilean moons: Io, Europa, Ganymede, and Callisto.

5. Which element that does not occur in nature but can be produced artificially?

Plutonium

6. Which Philosophy holds that the world is created and maintained by Universal Law?

Jain Philosophy

7. What is the average salt content in a liter of sea water?

35 gm

8. Which can be used for biological control of mosquitoes?

Gambusia

9. The latitude of a place is the same as which place?

Celestial pole

10. In which technology do Cryogenic engines find applications?

Rocket technology

11. Which instrument used for finding out wind-direction?

wind vane

12. Which vitamin is considered to be a hormone?

D

13. Which is the element found on the surface of the moon?

Titanium

14. Why is 'Beaufort Scale' used?

To measure wind velocity

15. Through which Translocation of food materials in plants takes place?

Phloem

16. When does Relative humidity decreases?

With increased temperature

17. A man with a dark skin, in comparison with a man with a white skin, What will experience?

Less heat and less cold

18. Which is the tree requiring minimum water for its growth?

Babul

19. Which country is the largest producer of Bauxite?

Australia

20. How are Oxygen and ozone?

Allotropes

Oxygen and ozone are common allotropes

Oxygen and ozone are both molecules made of oxygen atoms, but they have different molecular structures and properties.

21. From where did India introduce cultivation of tobacco/tapioca/ pineapple?

South America

22. In which is 'Foot and Mouth Disease' found?

Cattle

23. What denotes the smallest temperature?

1° on the Kelvin scale

24. In which latitudes largest quantities of bauxite is found?

Tropical latitudes

25. Which tree, once very popular in social forestry, is now taken to be environmental hazard?

Eucalyptus

26. Foot-and-Mouth disease in animals, a current epidemic in some parts of the world, By which is this caused?

Bacterium

27. In which animal is respiration done by skin?

Frog

28. 'Gobar gas' contains mainly which gas?

Methane

Gobar gas, also known as biogas, is a mixture of gases that mainly contains methane (50–75%) and carbon dioxide (25–50%). It also contains trace amounts of hydrogen, nitrogen, oxygen, ammonia, hydrogen sulfide, and water.

It is produced through the anaerobic decomposition of organic wastes from animals and plants.

29. Which rocks is transformed into marble?

Limestone

30. By which number the quality of gasoline' sample is determined?

By its octane number

31. Due to bite of mad dog the disease hydrophobia is caused by which virus?

Rabies virus

32. What is the principal reason for the formation of metamorphic rocks?

Extreme heat and pressure

33. A temperature at which both the Fahrenheit and the centigrade scales have the same value?

-40°

34. Medicine for epilepsy is obtain from which lichen?

Parmelia

35. Which type of glass is used for making glass reinforced plastic?

Quartz glass

36. What percentage of water is lost during transpiration?
99%
37. Which is the most populous city in the world?
Tokyo
38. When temperature is gradually decreased, what is the specific heat of substance?
Decreased
39. Which is the country with the highest density of population in Europe?
Netherlands
40. What is the loss of water in the form of water drops called?
Guttation
41. Which metal is non toxic in nature?
Gold
42. What is Study of growth and development of embryo?
Embryology
43. Angular separation between two colours of the spectrum depends upon which thing?
Angle of deviation
44. Where is the headquarter of International atomic Energy Agency is located?
Vienna
45. What is the Study of pulse and arterial blood pressure called?
Sphygmology
46. Which is the element that has the highest first ionization potential?
Nitrogen
47. What is considered as the easily digestible source of protein?
Soyabean
48. Which port especially developed for exporting iron ore to Japan?
Paradeep Port
49. Total internal reflection of light is possible when light enters from which thing?
Water to air
50. In the human body, cowper's glands form a part of which system?
Reproductive system
51. Which transition metal is in liquid state?
Mercury
52. Which type of forest exhibits highest bio-diversity?
Tropical rain forest
53. The UNESCO declared 2011 as which International Year?
International Year of Chemistry
54. In absence of ribosome in cell which function does not takes place?
Protein synthesis
55. If a bar magnet is cut length wise into 3 parts, what will the total number of poles be?
6
56. Which tissue take part in healing the wounds?
Epithelium tissue
57. Temporary hardness of water is due to the presence of which thing?
Magnesium bicarbonate
58. Which energy do not have the problem of pollution?
Sun
59. What is a suitable unit for expressing electric field strength?
N/C
60. Rotation of the earth causes deflection of wind by which force?
Coriolis force
61. Which oxyacid of halogen has maximum acidic nature?
HClO₄
62. The greatest threat to organisms and biodiversity in which process?

Process of habitat loss

63. How much of earth surface is covered by the forests?

30 percent

64. The unidirectional property of a pn-junction is useful for its use as which thing?

Rectifier

65. Thermal decomposition of alkanes is known as which name?

Cracking

66. What is the characteristic odour of garlic?

A sulphur compound

67. Which is the vitamin that is most readily manufactured in our bodies?

Vitamin D

68. In human body, which are the leg bones?

Humerus and Femur

69. Which of the following is good nuclear fuel?

Plutonium-239

70. In metabolism, how enzymes act?

As catalyst

71. By which plants is the maximum fixation of solar energy done?

Green plants

72. Which hot and dry winds that help in the ripening of grapes in the Alps region?

Foehn

73. What is the wavelength of visible spectrum?

3900-7600 A

74. Salts of which element pre vide colours to fireworks?

Strontium and barium

75. To suspect HIV/AIDS in a young individual, which symptom is mostly associated with?

Chronic diarrhoea

76. Leukaemia or blood cancer is characterised by abnormal increase of which cells?

White blood cells

77. What does Oxidation involve?

Loss of electrons

78. Which Part of plant is important for the life cycle of plant?

Flower

79. In colourful diamond, Why are different colours present?

Due to impurities

80. Which physical quantities have the same dimensions?

Momentum and impulse

81. What is the number of unpaired electrons in carbon atom?

2

82. Which latitude passes through India?

Tropic of Cancer

83. When some detergent is added to water, what will be the surface tension?

Increases

84. How many chamber are found in the heart of frog?

3

85. Sex determination of child is done by whose chromosome?

Father

86. Who firstly demonstrated experimentally the existence of electromagnetic wave?

Hertz

87. Which is not essentially a species of the Himalayan vegetation?

Mahogany

88. What is the effect of overseretion of hormone from pituitary gland?

Increase growth in length

89. Which type of forest covers the maximum area in India?

Tropical moist deciduous forest

90. Heating pyrites in air to remove sulphur is known as which name?

Roasting

91. From the evolutionary point of view, which is the most primitive animal?

Turtle

92. What is reduction of oxide with carbon at high temperature called?

Smelting

93. Which atmospheric layer that reflects radio waves is called?

Ionosphere

94. Conversion of chemical energy into electrical energy occurs in which thing?

Battery

95. Purification of petroleum is carried out by which method?

Fractional distillation

96. What is the short upper part of the human intestine next to the stomach?

Duodenum

97. Where will be the Time period in a vibration magnetometer infinite?

At magnetic pole

98. Which technique can be used to establish the paternity of a child?

Quantitative analysis of DNA

99. Which petroleum refinery product has the lowest boiling point?

Gasoline

100. By which impact is Nuclear fission is caused?

Neutron

101. By whom was Insulin discovered?

Dr. F G. Banting

102. Which is purest form of iron?

Wrought iron

103. Which is used as a coolant in nuclear reactors?

Liquid sodium

104. Comets revolve around which body?

Sun

105. Meghnad Saha is known for his contribution in which field?

Physics

106. Which layer of the earth is believed to have the heaviest mineral materials of highest density?

Central core

107. Liquefied Petroleum Gas consists of mainly which gases?

Methane, butane and propane

108. The mapping of which part of earth is most difficult?

Interior of the Earth

109. Which cytoplasmic organelles are treated as prokaryotic cells within the eukaryotic cells?

Glyoxysomes

110. When milk is churned, how does the cream separate from it?

Due to the centrifugal force

111. Which is the secondary source of light in a fluorescent lamp?

Mercury vapour

112. Archaeopteryx had which reptilian characters?

Clawed wings, teeth on jaw, tail

113. Which elements is obtained from sea weeds?

Iodine

114. By using which technique, is DNA fingerprint done?

Southern Blotting

115. Which Bacteria convert atmospheric nitrogen into nitrogenous compound?

Nitrogen fixing bacteria

116. Sound travels faster in which thing?

Iron than in air

117. Rainfall in the doldrums is of the nature of which precipitation?

Orographic precipitation

118. Which type of microorganism is most widely used in industries?

Bacteria, microalgae and fungi.

119. Water will be absorbed by root hairs, then how is when the external medium?

Hypotonic

120. Which is not an important factor of climate of an area?

Longitude

121. Who does a liquid drop tend to assume a spherical shape?

Surface tension

122. With which Economic growth is usually coupled?

Inflation

123. Where is the thermal equator found?

North of the geographical equator

124. What is an instrument for measuring the rate of transpiration?

Potometer

125. Which substance does not have a melting point?

Glass

126. What structure is common to both earthworm and cockroach?

Ventral nerve cord

127. By which a mixture of sand and naphthalene can be separated?

Sublimation

128. Which part of human brain is the regulating centre for swallowing and vomiting?

Medulla oblongata

129. By which Radio waves of constant amplitude can be generated?

Oscillator

130. Which was the first metal used by man?

Copper

131. Who published the book 'Origin of species by natural selection in 1859'?

Darwin

132. Which mirror is to be used to obtain a parallel beam of light from a small lamp?

Concave mirror

133. Why are Metals good conductor of heat than insulator?

They contain free electrons

134. Which of a species describes the tropic function it fills in its environment?

Niche

135. A mixture of camphor and benzoic acid can be easily separated by which method?

Chemical method

136. Which vitamin is generally excreted by humans in urine?

Vitamin C

137. Which is present in the largest amount in terms of percent by mass in the earth's crust?

Oxygen

138. If a material, placed in a magnetic field is thrown out of it, then how is the material?

Diamagnetic

139. Exceptionally high rainfall is recorded in regions owing to which effect?

Orographic effect

140. If the temperature of a semiconductor rises, what is its resistivity?

Decrease

141. Which are the glands of the body which pour their secretions directly into the blood stream?

Endocrine glands

142. Which is the second most abundant metal in the earth's crust?

Iron

143. A typical human ribcage consists of how many ribs?
24
144. Which cell organelle is responsible for cellular respiration?
Mitochondrium
145. Which is the most malleable metal?
Gold
146. The altitudes of heavenly bodies appear to be greater than they actually are. Why is this?
Atmospheric refraction
147. Which group of plant produce naked seed?
Gymnosperm
148. Who discovered the laws of planetary orbits?
Johannes Kepler
149. Who gave the first experimental value of G?
Cavendish
150. Photochemical smog occurs in which climate?
Warm, dry and sunny climate
151. What is the Planning Commission?
An Advisory body'
152. What do the surface of Earth that lies between the Tropic of Cancer and the Tropic, of Capricorn?
Torrid Zone
153. Which communicable disease is caused by bacteria?
Leprosy
154. What is the conversion of Fe⁺⁺ to Fe⁺⁺⁺?
Oxidation
155. What percentage of insolation is received by the earth's surface?
47%
156. If a ship moves from freshwater into seawater, what will happen?
It will rise a little Higher
157. What is the first compound which is fixed during photosynthesis?
Glucose
158. At low elevation which cloud are to be found?
Nimbus
159. The escape velocity from the surface of the earth does not depend on which body?
Mass of the body
160. Which colour types do not indicate fair or fine weather?
Cumulonimbus
161. To which are Phototropic and Geotropic movements linked?
Auxin
162. Which is the most unreactive gas?
Hydrogen
163. In which type of climate does the temperature never rise above 10°C throughout the year?
Tundra Climate
164. Which substance found in blood which helps in clotting?
Fibrinogen
165. What is the product of the time period of a wave and its frequency?
Unity
166. What is the name of the scientist who stated that matter can be converted into energy?
Einstein
167. What is in a healthy person rate of heart beat on one minute?
72 times
168. With the rise of temperature, what happens in the speed of sound in a gas?
Increases
169. Myxoedema is disorder produced due to hypersecretion of which gland?
Thyroid

170. The isotopes of chlorine with mass number 35 and 37 exist in which ratio?

3 : 1

171. What does protein deficiency in children usually between the age of 1 to 3 year cause?

Kwashiorkor

172. When the radius of the T.G. coil is decreased, what does happen in its sensitiveness?

Increases

173. The United Nations declared 2014 as which International Year?

Crystallography

174. Which disease is caused by bacteria and spread though faecal matter by houseflies?

Typhoid

175. Which colloids are solvent loving colloids?

Lyophilic

176. The resistance of material increases with temperature. What is this?

Metal

177. The word "biodiversity" is a combination of which two words?

Biology and diversity

178. Which material is very hard and very ductile?

Nichrome

179. Bhopal gas tragedy struck in the year 1984 due to the leakage of which gas?

Methyl-iso-cyanate

180. Einstein's mass energy relation is given by which expression?

$E = mc^2$

181. All of the organisms living in a particular area, what do they make up?

A biological Community

182. How can fertility of soil be improved?

By adding living earthworms

183. Which rays will deflect in electric field?

Cathode rays

184. Which disease is caused by the bite of a mad dog?

Hydrophobia

185. From the biological evolutionary point of view, the human heart is close to the heart of which animal?

Pig

186. The mass-energy relation is the outcome of which theory?

Special theory of relativity

187. Local thunderstorms 'Norwesters' are prominent in which state?

West Bengal

188. Which disease is characterised by inflammation of the membranes covering the brain and spinal cord?

Meningitis

189. Which purified oil does Aviation fuel for jet aeroplanes consist?

Kerosene

190. Which metal is used for generation of Nuclear Power?

Uranium

191. On which conservation law, does a rocker work?

Angular momentum

192. Which is the best conductor of electricity?

Silver

193. Which of the planets is nearest to the earth?

Venus

Venus is sometimes called Earth's twin because of their similar composition, size, and mass, as well as their proximity to each other in the solar system.

194. Through which material does sound travel slowest?

Wood

195. What is the distance of the equator from either of the poles?

10,002 km

196. Which layer of the atmosphere provides ideal conditions for flying of jet aeroplanes?

Stratosphere

197. Most of the plants obtain nitrogen from the soil in which form?

Nitrates

198. If the temperature inside a room is increased, what will be the relative humidity?

Decrease

199. Which constituents of the atmosphere causes greatest changes in climate and weather?

Water Vapour

200. Which polymer is used for making bulletproof material?

Polyethylene

201. Which climatic type suffers change due to shifting of the World's Pressure Belts.

Monsoon

202. Which gland is both exo and endocrine gland?

Pancreas

203. By which the maximum amount of energy in the present day world is provided?

Coal

204. The first law of thermodynamics is concerned with the conservation of which thing?

Energy

205. Which blood vessel bringing blood into Bowman's capsule?

Afferent arteriole

206. Which are macro-nutrients provided by inorganic fertilizers?

Nitrogen, phosphorus and potassium

207. Which proper order of seismic waves as they are received at seismograph station?

P-wave, S-wave, L-wave

208. Which causes the disease syphilis?

Bacteria

209. What is the relative permeability of a paramagnetic material?

Greater than unity

210. On which thing Erosion of soil by a river mainly depends?

Its speed at which it flows

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