



CAPF AC PYQ

(SUBJECT WISE)

(Institute for Defence exam)

SUBJECT : SCIENCE

YEAR : 2017

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The following 7 (Seven) items consist of two statements, Statement I and Statement II. Examine these two statements carefully and select the correct answer using the code given below :

Code :

- (a) Both the statements are individually true and Statement II is the correct explanation of Statement I
- (b) Both the statements are individually true but Statement II is NOT the correct explanation of Statement I
- (c) Statement I is true but Statement II is false
- (d) Statement I is false but Statement II is true

1. Statement I : Plantation farming has mostly been practiced in humid tropics

Statement II : The soil of humid tropics is highly fertile

2. Statement I : Chameleon changes its skin colour to match with the colour of the surroundings

Statement II : The skin of chameleon emits light of the colour of the surrounding through fluorescence

3. Statement I : Occasionally we see two rainbows together, the primary rainbow with another less intense secondary rainbow about 10 degrees away

Statement II : The secondary rainbow appears due to refraction after a reflection of sunlight from the water droplets

64. Which one of the following artificial sweeteners is modified sugar ?

- (a) Aspartame
- (b) Saccharin
- (c) Sucralose
- (d) Alitame



65. Which one of the following polymers is made of protein ?

- (a) Rubber
- (b) Cotton
- (c) Wool
- (d) Jute



66. Which of the following diseases are caused by the consumption of water contaminated by mercury and nitrate ?

- (a) Minamata disease and Osteoporosis
- (b) Osteoporosis and Blue Baby Syndrome
- (c) Minamata disease and Blue Baby Syndrome
- (d) Osteoporosis and Minamata disease

67. Leakage of which one of the following gases had caused Bhopal Gas Tragedy in the year 1984 ?

- (a) Methyl isocyanate
- (b) Hexamethylene diisocyanate
- (c) Isophorone diisocyanate
- (d) Isothiocyanate

74. Which one of the following elements is present in the green pigment of leaves ?

- (a) Magnesium
- (b) Iron
- (c) Calcium
- (d) Copper



75. Which one of the following is NOT correct about organic farming ?

- (a) It does not use genetically modified seeds
- (b) Synthetic pesticides or fertilizers are not used
- (c) It uses minimal crop rotation
- (d) It uses ecologically protective practices

76. Which one of the following instruments is used for measuring moisture content of air ?

- (a) Hydrometer
- (b) Hygrometer
- (c) Hypsometer
- (d) Pycnometer



77. Bronze is an alloy of copper and

- (a) nickel
- (b) iron
- (c) tin
- (d) aluminium



84. Liquid water is denser than ice due to

- (a) higher surface tension
- (b) hydrogen bonding
- (c) van der Waals forces
- (d) covalent bonding

85. Which one of the following is the chemical name of heavy water ?

- (a) Hydrogen oxide
- (b) Deuterium dioxide
- (c) Deuterium oxide
- (d) Heavy hydrogen oxide



86. Who among the following has coined the term 'Quark', the fundamental particles that make up protons and neutrons in an atomic nucleus ?

- (a) Richard Feynman
- (b) Murray Gell-Mann
- (c) Albert Einstein
- (d) Niels Bohr

87. The mass number of an element is NOT changed when it emits

- (a) Alpha and Beta radiations only
- (b) Alpha and Gamma radiations only
- (c) Beta and Gamma radiations only
- (d) Alpha, Beta and Gamma radiations

94. Which one of the following diseases is caused by Cadmium pollution ?

- (a) Minamata
- (b) Itai-itai
- (c) Fluorosis
- (d) Blue baby syndrome



95. Presence of ozone in the atmosphere is important because it absorbs

- (a) ultraviolet-A and ultraviolet-B radiations
- (b) ultraviolet-B radiations only
- (c) infrared-B radiations only
- (d) outgoing ultraviolet-B radiations and incoming ultraviolet-A radiations

113. Which one of the following is a major effect of long term consumption of drinking water containing little (less than 0.5 ppm) or no fluoride ?

- (a) Cavity of tooth
- (b) Erosion of nail
- (c) Deformation of bone
- (d) Mottling of tooth

114. Carborundum is used as an abrasive, because it

- (a) has high thermal conductivity
- (b) has low coefficient of expansion
- (c) has high chemical stability
- (d) is extremely hard

115. Which one of the following is NOT decomposed by bacterial action ?

- (a) Vegetable remains
- (b) Plastic materials
- (c) Animal carcasses
- (d) Wastes of flowers

