



# AGRICULTURE

## Solved MCQs

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**Note:** This booklet is intended to be accurate and relevant to the subject but not claimed as 100% correct. This is a compiled work by The CSS Point Team. Original Author of document is Syeda Bukhari from cssforum.

Agriculture | The CSS Point

**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS  
IN BPS – 17 UNDER THE FEDERAL GOVERNMENT, 2001.**

**COMPULSORY QUESTION**

**(1) The economy of Pakistan is based on:**

- (a) Agriculture**
- (b) Industry
- (c) Mineral resources
- (d) None of these

**(2) Which one of the following is major export commodity of Pakistan?**

- (a) Wheat
- (b) Cotton**
- (c) Sugar
- (d) Rice
- (e) None of these

**(3) Sahiwal breed is a breed of:**

- (a) Buffalo
- (b) Cow**
- (c) Sheep
- (d) Goat
- (e) None of these

**(4) Vertebrate pests of crops include:**

- (a) Insects
- (b) Wild Boars**
- (c) Spiders
- (d) None of these

**(5) Basmati is a type of:**

- (a) Wheat
- (b) Rice**
- (c) Maize
- (d) Sorghum
- (e) None of these

**(6) Sericulture means:**

- (a) Rearing of Honey bees
- (b) Rearing of Silk worms**
- (c) Both of these
- (d) None of these

**(7) Gossypium Hirsutum is the botanical name of:**

- (a) Sugarcane
- (b) Wheat
- (c) American Cotton**
- (d) Maize
- (e) None of these

**(8) Kharif crops include:**

- (a) Wheat
- (b) Cotton**
- (c) Both of these
- (d) None of these

**(9) Genetically Modified Organism (GMO) is the term used for the organism produced through the application of:**

- (a) Genetic Engineering**
- (b) Mendelian Genetics
- (c) None of these

**(10) The carrier of "cotton leaf curl virus" in Pakistan is considered to be:**

- (a) White fly**
- (b) Jassids
- (c) American boll worm
- (d) None of these

**(11) The process of synthesizing food by the plants in the presence of sunlight is called as:**

- (a) Respiration
- (b) Photosynthesis**
- (c) Fertilization
- (d) None of these

(B) Fill in the blanks.

(12) The date palm is monocotyledonous plant and belongs to family **Areaceae or Palmae.**

(13) Nitrogen is taken up by plants in the form of **nitrate.** (I am not sure as on some sources I found its ammonia)

(14) RGR stands for **Relative Growth Rate.**

(15) Increased Vigour of a hybrid over the mean of its parents is called as **heterosis.**

(16) GDP stands for **Gross Domestic Production.**

(17) Haploid number of Chromosomes of Desi Cotton is **13.**

(18) **Soil texture** refers to the size distribution of soil particles.

(19) **Soil structure** refers to the arrangement of soil particles.

(20) IPM stands for **Integrated Pest Management.**

**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS  
IN BPS – 17 UNDER THE FEDERAL GOVERNMENT, 2002.**

**COMPULSORY QUESTION**

**(A) Choose the correct option from the given choices.**

**(1) The agriculture of Pakistan is characterized by:**

- (a) Two main cropping seasons**
- (b) Three main cropping seasons
- (c) Four main cropping seasons
- (d) None of these

**(2) The soil Survey of Pakistan has identified classes of land under a system of land capability classes:**

- (a) Six classes
- (b) Seven classes
- (c) Eight classes**
- (d) Nine classes
- (e) None of these

**(3) Highest nutrient concentration causes a phenomenon in plant growth known as:**

- (a) Adequacy
- (b) Deficiency
- (c) Toxicity**
- (d) None of these

**(4) KATJA is cultivar of:**

- (a) Banana
- (b) Mango
- (c) Citrus
- (d) Apple**
- (e) None of these

**(5) Pome fruits include:**

- (a) Apple
- (b) Pear
- (c) Quince
- (d) All of these**
- (e) None of (a), (b) and (c)

**(6) *Zizypus jujuba* is the botanical name of:**

- (a) Berseem
- (b) Maize
- (c) Rice
- (d) Wheat
- (e) None of these**

**(7) Osmite is a chemical used for control of:**

- (a) Virus
- (b) Bacteria
- (c) Fungus
- (d) Mite
- (e) None of these

**(8) Wheat is placed in:**

- (a) Legumes
- (b) Cereals**
- (c) Fiber
- (d) All of these
- (e) None of (a), (b) and (c)

**(9) Nili is a breed of:**

- (a) Cow
- (b) Buffalo**
- (c) Goat
- (d) None of these

**(10) Essential elements required for plant growth are:**

- (a) 10
- (b) 12
- (c) 14
- (d) 16** (Not sure please confirm)
- (e) None of these

(B) Fill in the blanks:

- (11) The science of fruit production is called **Pomology.**
- (12) Scirtothrips citri is a pest attacking **Citrus.**
- (13) Rearing a silk worm is known as **sericulture.**
- (14) Mangifera indica is a botanical name of **mango.**
- (15) NAR stands for **Net Assimilation Rate.**
- (16) Copying of m RNA into protein is termed as **translation.**
- (17) IBPGR stands for **International Board for Plant Genetic Resources.**
- (18) Unit of the material of inheritance is known as **gene.**
- (19) IUCN stands for **International Union for Conservation of Nature.**
- (20) IFAD stands for **International Fund for Agricultural Development**

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IN BPS – 17 UNDER THE FEDERAL GOVERNMENT, 2003.**

**COMPULSORY QUESTION**

**8. Write only the correct answer in the Answer Book. Do not reproduce the questions.**

**(1) Texture of soil is:**

- (a) Arrangement of soil particles
- (b) Relative proportion of soil particles**
- (c) Both of the above
- (d) None of these

**(2) Inqlab-91 is a cultivar of:**

- (a) Brassica
- (b) Wheat**
- (c) Rice
- (d) None of these

**(3) Cotton is:**

- (a) Cereals
- (b) Legumes
- (c) Fiber**
- (d) None of these

**(4) NMR stands for:**

- (a) Non Molecular Resistance
- (b) Nuclear Magnetic Resonance**
- (c) Nuclear Membrane resistance
- (d) None of these

**(5) Water stress is:**

- (a) Shortage of water
- (b) Water logging
- (c) Both a & b**
- (d) None of these

**(6) Free living animal that attacks and feed on other organisms is:**

- (a) Predator**
- (b) Parasite
- (c) Scavengers
- (d) None of these

**(7) A decrease in the governmentally define value of currency:**

- (a) Inflation
- (b) Cheapness
- (c) Devaluation**

(d) None of these

**(8) Seed cotton means:**

- (a) Seed with lint**
- (b) Seed without lint
- (c) Lint
- (d) None of these

**(9) Sex nucleus that fuses with another in sexual reproduction is:**

- (a) Cell
- (b) Gamete**
- (c) Spore
- (d) None of these

**(10) Motile spores are:**

- (a) Aplanospores
- (b) Chlamyospores
- (c) Conidia
- (d) None of these** (Please confirm it)

**(B) Fill in the blanks:**

- (11) The science of vegetable production is called **olericulture.**
- (12) The actual amount of water present in air is called **absolute humidity.**
- (13) Rearing of honeybees is called **Apiculture.**
- (14) The treatment given to counteract the effect of poison is called \_\_\_\_\_ .
- (15) The artificial removal of the stamens from flower before they dehisce is called **emasculation.**
- (16) Plants which drop their leaves during winter are called **deciduous plants.** (Not sure please confirm)
- (17) An individual with both male & female genitalia is called **hermaphrodite.**
- (18) TLC stands for **Thin Layer Chromatography.**
- (19) Arid agriculture means **agricultural practices in arid areas.**
- (20) Botanical name of wheat is **Triticum aestivum.**

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**COMPULSORY QUESTION**

**8. Write only the correct answer in the Answer Book. Do not reproduce the questions.**

**(1) Olericulture is the study dealing with:**

**(a) Vegetable production**

- (b) Honey bee
- (c) Ornamental Flowers
- (d) None of these

**(2) Colostrum is:**

- (a) Low nutritive milk
- (b) First product of mammary glands after parturition**
- (c) Product of mammary glands after two month of parturition
- (d) None of these

**(3) Banana fruit is classified in the category:**

- (a) Drupe
- (b) Pomes
- (c) Berry**
- (d) None of these

**(4) Older the rice:**

- (a) Worse in price
- (b) Damaged in shape
- (c) Cheaper in price
- (d) None of these** (Please confirm it)

**(5) Gossypium Hirsutum is the botanical name of:**

- (a) American Cotton**
- (b) Desi Cotton
- (c) Barley
- (d) Sugar Cane
- (e) None of these

**(6) Selection of plants on the basis of phenotypic superiority is known as:**

- (a) Hybrid
- (b) Mass Selection**
- (c) Inbred Line
- (d) Pure Line
- (e) None of these

**(7) Agricultural Extension relates to:**

- (a) Modernization of agricultural machinery
- (b) Financial help to the farmers
- (c) Educating farmers**



(d) None of these

**(8) When soil surface is protected with residue of a crop, the practice is called:**

- (a) Nitrogen fixation
- (b) Sheet erosion
- (c) Tillage

**(d) Mulching**

(e) None of these

**(9) Bhagnari is a breed of:**

(a) Buffalo

**(b) Cow**

(c) Sheep

(d) Poultry

(e) None of these

**(10) Afforestation means:**

(a) Forest Research Station

**(b) To convert land into forest**

(c) Utilization of forest products

(d) None of these

**(11) Population genetics is based on:**

(a) Principles of population control

(b) Mendel's Law

**(c) Hardy Wienberg's law**

(d) Genotype-environment inter action

(e) None of these

**(12) Inqalab – 91 is a variety of:**

(a) Rice

(b) Cotton

(c) Sugar cane

**(d) Wheat**

(e) None of these

**(13) Crops produced in hilly areas are low in:**

(a) Iron

(b) Zinc

(c) Nitrogen

(d) Iodine

(e) None of these

**(14) Crossing over occurs between:**

(a) Sister Chromatids

**(b) Homologous Chromosomes**

(c) Non-Homologous Chromosomes

(d) None of these

**(15) Gypsum is rich source of:**

- (a) Calcium + Zinc
- (b) Potassium + Nitrogen
- (c) Calcium + Sulphur**
- (d) None of these

**(16) F.A.O. has its headquarters in:**

- (a) London
- (b) New York
- (c) Geneva
- (d) None of these**

**(17) Organic matter in soil helps in:**

- (a) Improving soil structure**
- (b) Improving soil texture
- (c) Weed control
- (d) Building up of organic compounds in crops
- (e) None of these

**(18) Seed cotton means**

- (a) Seed without lint
- (b) Seed with lint**
- (c) Lint only
- (d) None of these

**(19) The ploidy level of American Cotton is:**

- (a) Diploid
- (b) Triploid
- (c) Tetraploid**
- (d) None of these

**(20) Contribution of Agriculture to GDP is:**

- (a) 35%
- (b) 50%
- (c) 75%
- (d) None of these**

**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS  
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**COMPULSORY QUESTION**

**8. Write only the correct answer in the Answer Book. Do not reproduce the questions.**

**(1) How much of the earth surface is covered by water?**

- (a) 65%
- (b) 70%**
- (c) 80%
- (d) None of these

**(2) Citrus has its origin in:**

- (a) Indo-Chinese region**
- (b) Africa
- (c) Middle East
- (d) None of these

**(3) The science of classification is called:**

- (a) Ecology
- (b) Horticulture
- (c) Taxonomy**
- (d) None of these

**(4) Grapes cultivation is called:**

- (a) Orcharding
- (b) Viticulture**
- (c) Pomology
- (d) None of these

**(5) Tomato is a good source of vitamin:**

- (a) Vitamin A
- (b) Vitamin B
- (c) Vitamin C**
- (d) None of these

**(6) Histosols are found in:**

- (a) Canada
- (b) Alaska
- (c) Both (a) and (b)**
- (d) None of these

**(7) Age of earth is:**

- (a) 6 billion years
- (b) 4 billion years** (Exact is 4.54 billion years)
- (c) 1 billion years
- (d) None of these

**(8) Common soils found in Pakistan:**

- (a) Aridisols
- (b) Inceptisols
- (c) Both (a) and (b)
- (d) None of these

**(9) A group of similar looking plants that has approved for general cultivation in a ecological zone is called:**

- (a) Variety**
- (b) Strain
- (c) Taxonomy
- (d) None of these

**(10) The basic set of chromosomes in case of wheat is:**

- (a) 7**
- (b) 14
- (c) 42
- (d) None of these

**(11) In DNA, adenine always pair with:**

- (a) Thymine**
- (b) Guanine
- (c) Cytosine
- (d) None of these

**(12) Mushrooms are member of:**

- (a) Oomycetes
- (b) Discomycetes
- (c) Zygomycetes
- (d) None of these

**(13) Most fungal disease spread out in:**

- (a) Dry & Cold weather
- (b) Wet & Cold**
- (c) Dry & Hot
- (d) None of these

**(14) Tikka disease of groundnut is renowned to:**

- (a) Thar
- (b) Chakwal** (Please confirm it)
- (c) Rawalpindi
- (d) None of these

**(15) The fruits and vegetables contain an insoluble stiffening material called:**

- (a) Pectin
- (b) Lignin
- (c) Protopectin**
- (d) None of these

**(16) Substances added intentionally to foods for the purpose of making more profit termed as:**

- (a) Food contaminations
- (b) **Food adulterants**
- (c) Food additives
- (d) None of these

**(17) *Lepus capensis* is the name of:**

- (a) Tiger
- (b) Lion
- (c) Rat
- (d) **None of these**

**(18) Establishment of new crop naturally or artificially is:**

- (a) **Silviculture**
- (b) Sericulture
- (c) Nursery
- (d) None of these

**(19) Meaningful statement about the economic behavior or the economy is called:**

- (a) Economic principles
- (b) Economic theories
- (c) **Both (a) and (b)** (I am not sure please confirm it)
- (d) None of these

**(20) The measure of fluids resistance to sheer or angular deformation:**

- (a) Normality
- (b) **Viscosity**
- (c) Compressibility
- (d) None of these

**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS  
IN BPS – 17 UNDER THE FEDERAL GOVERNMENT, 2006.**

**COMPULSORY QUESTION**

**Q8) Write only the correct answer in the Answer Booklet. Do not reproduce the question.**

**1) Ploidy level of maize plant is:**

- a) Diploid**
- b) Tetraploid
- c) Hexaploid
- d) None of these

**2) Dajal is a breed of:**

- a) Milking animal
- b) Draft animal**
- c) Pet animal
- d) None of these

**3) Seed cotton means:**

- a) Lint only
- b) Seed without lint
- c) Seed with lint**
- d) None of these

**4) Hardy-Weinberg equilibrium provides basis for study of:**

- a) Population Genetics**
- b) Genetic Engineering
- c) Biometrical Genetics
- d) Mendelian Genetics

**5) Maize plant has its origin in:**

- a) Russia
- b) Africa
- c) Middle East
- d) America**

**6) Olericulture is the study dealing with:**

- a) Silk worm
- b) Vegetable production**
- c) Honey bees
- d) Ornamental flowers

**7) Gypsum is a rich source of:**

- a) Calcium + zinc
- b) Calcium + Potassium
- c) Calcium + sulphur**
- d) Calcium + nitrogen

**8) Banana fruit is classified in the category of:**

- a) Berry**
- b) Pomes
- c) Sorosis
- d) None of these

**9) True potato seed is the:**

- a) Potato tuber used for propagation
- b) Any plant part used for potato propagation
- c) Seed developed within the fruit of potato**
- d) None of these

**10) Eragate are the types of insects which are:**

- a) Workers in honey bee
- b) Biting
- c) Workers in the species of ant
- d) None of these

**11) "CIMMYT" is an organization working for the improvement of:**

- a) Rice and cotton
- b) Pulses and oilseeds
- c) Dryland Agriculture
- d) Wheat and maize**

**12) In various plant metabolic processes "PPP" stand for:**

- a) Plant Protection Procedures
- b) Produce Per Plant
- c) Pentose Phosphate Pathway**
- d) None of these

**13) Arachnids are the arthropods with:**

- a) Single pair of leg
- b) Two pairs of legs
- c) Three pairs of legs
- d) Four pairs of legs**

**14) Sericulture means:**

- a) Rearing of honey bees
- b) Rearing silk worms**
- c) Both (a) and (b)
- d) None of these

**15) The cotton species providing main raw material for textile industry is:**

- a) Gossypium hirsutum** (Please confirm it)
- b) Gossypium arboreum
- c) Gossypium thurberii
- d) None os these

**16) Inbred lines are developed through selection and inbreeding in:**

- a) Self pollinated crops
- b) Cross pollinated crops**
- c) Asexually propagated crops
- d) None of these

**17) Safflower is:**

- a) An ornamental plant
- b) Oil producing plant**
- c) Leguminous
- d) Fibre producing plant

**18) Continuous selfing in cross pollinated:**

- a) Improvement in yield
- b) Poor in performance**
- c) Growth in vegetative parts
- d) None of these

**19) Soil structure can be improved with addition of:**

- a) Organic matter**
- b) Chemical fertilizers
- c) Gypsum
- d) None of these

**20) Synapsis of chromosomes occurs between:**

- a) Sister chromatids
- b) Homologous chromosomes**
- c) Non homologous
- d) None of these



**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS  
IN BPS – 17 UNDER THE FEDERAL GOVERNMENT, 2007.**

**COMPULSORY QUESTION**

**8. Write only correct answer in the Answer Book. Do not reproduce the question.**

**(1) Mechanism in which the product of metabolic pathway inhibits an enzyme catalyzing an early step is called:**

- (a) Early inhibition
- (b) Metabolic inhibition
- (c) Feed back inhibition**
- (d) None of these

**(2) The most suitable part of the plant for the study of Meiosis is:**

- (a) Young bud
- (b) Anther** (Please confirm it)
- (c) Root tip
- (d) Shoot apex

**(3) The shrinkage of protoplasm due to osmosis of water from the cell is known as:**

- (a) Hydrolysis
- (b) Endomosis
- (c) Dehydration
- (d) Plasmolysis**

**(4) The most abundant compound in nature is:**

- (a) Starch
- (b) Protein
- (c) Cellulose**
- (d) All of these

**(5) Antibiotics are produced by the:**

- (a) Plants
- (b) Microorganisms**
- (c) Animals
- (d) All of these

**(6) The amino acids which cannot be synthesized by the mammals are called:**

- (a) Basic amino acids
- (b) Non-essential amino acids
- (c) Essential amino acids**
- (d) Non-Polar amino acids

**(7) Quantitative traits are measurable traits that show:**

- (a) Discontinuous variation
- (b) Continuous variation**

- (c) Phenotypic
- (d) None of these

**(8) The process of programmed cell death is called:**

- (a) Apoptosis**
- (b) Necrosis
- (c) Degeneration
- (d) Both (a) and (b)

**(9) Genetic material of an organism changes with:**

- (a) Age
- (b) Environmental change
- (c) Nutritional change
- (d) None of these**

**(10) Economically important Genetic traits in plants are influenced by the environment because these are:**

- (a) Cytoplasmically inherited traits
- (b) Monogenic traits
- (c) Polygenic traits**
- (d) None of these

**(11) Only plant cells contains:**

- (a) Plasma membrane
- (b) Mitochondria
- (c) Chloroplasts**
- (d) Nucleolus

**(12) The accumulation of CO<sub>2</sub> in large quantities in the atmosphere causes the problem of:**

- (a) Air pollution
- (b) Over cooling of atmosphere
- (c) Degradation of Biodiversity
- (d) Green house effect**

**(13) The ovary in plants matures into:**

- (a) Fruit**
- (b) Seed
- (c) Endosperm
- (d) Embryo

**(14) The first step in Photosynthesis is:**

- (a) Excitation chlorophyll electron**
- (b) Photolysis of water
- (c) Formation of NADPH<sub>2</sub>
- (d) Formation of ATP

**(15) Which one of the following is nonrenewable resource?**

- (a) Wildlife
- (b) Biodiversity
- (c) Fossil Fuel**

(d) Forest

**(16) A plant disease caused by bacteria is called:**

- (a) Loose smut
- (b) Crown gall**
- (c) Leaf rust
- (d) Powdery Mildew

**(17) Enzymes are chemically:**

- (a) Carbohydrates
- (b) Lipids
- (c) Proteins**
- (d) None of these

**(18) Genes determine:**

- (a) The sex of a baby
- (b) A phenotypic character
- (c) Synthesis of a Polypeptide
- (d) All of these**

**(19) "It is the outmost layer of the animal cell, it is thin, delicate, elastic, and capable of self repair." The statement is true for:**

- (a) Cell wall
- (b) Cell membrane**
- (c) Middle Lamella
- (d) Nuclear membrane

**(20) Biotechnology refers to:**

- (a) Manipulation of Genes
- (b) Cheese Making
- (c) Manipulation of Biological Systems
- (d) All of these**

**FEDERAL PUBLIC SERVICE COMMISSION  
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IN BPS – 17 UNDER THE FEDERAL GOVERNMENT, 2008.**

**COMPULSORY**

**Q.1. Select the best option/answer and fill in the appropriate box on the Answer Sheet. (20)**

**(1) The share of livestock in agricultural growth has jumped from 25.3% in 1996 to \_\_\_\_\_ in 2006:**

- (a) 35%
- (b) 45%
- (c) 49.6%**
- (d) None of these

**(2) Of the total forest area of Pakistan, commercial forests cover:**

- (a) 16%
- (b) 20%
- (c) 33%
- (d) None of these** (Please confirm it)

**(3) To decrease water loss during transmission, a mega project for lining of water courses and canals was launched in 2004-05 with a cost of Rs \_\_\_\_\_:**

- (a) 66 billion
- (b) 75 billion
- (c) 150 billion
- (d) None of these

**(4) A condition when there is excessive produce in the market which lowers down price is:**

- (a) Perfect market
- (b) Imperfect market
- (c) Market glut**
- (d) None of these

**(5) Total amount allocated by the Government for agriculture credit disbursement is Rs. \_\_\_\_\_:**

- (a) 160 billion
- (b) 180 billion
- (c) 280 billion
- (d) None of these

**(6) The estimated production of sugarcane for the year 2006-07 is \_\_\_\_\_ million tons:**

- (a) 44.8%
- (b) 54.8%**
- (c) 64.8%
- (d) None of these

**(7) Increased vigour growth of a hybrid over parents is called:**

- (a) Heterosis**
- (b) Heterozygous
- (c) Hybridization
- (d) None of these

**(8) Cropping pattern in which the second crop is started amidst the first crop before it has been harvested is called:**

- (a) Relay cropping**
- (b) Multiple cropping
- (c) Double cropping
- (d) None of these

**(9) Time factor of cold days needed by certain plants to produce a bud:**

- (a) Vernalization**
- (b) Dormancy
- (c) Bloom factor
- (d) None of these

**(10) A natural dropping of leaves, flowers and other plant parts is called:**

- (a) Abscission**
- (b) Fall
- (c) Abortive
- (d) None of these

**(11) ICRISAT is located in:**

- (a) China
- (b) India**
- (c) Mexico
- (d) None of these

**(12) Mites are arthropods in class:**

- (a) Insecta
- (b) Diplopoda
- (c) Chordata
- (d) None of these**

**(13) Flax is:**

- (a) Ornamental plant
- (b) Oil producing plant
- (c) Fibre producing plant**
- (d) None of these

**(14) Plants having flowers of only one sex are:**

- (a) Dioecious**
- (b) Monoecious
- (c) Monogamy
- (d) None of these

**(15) Area which can be economically irrigated by an irrigation system is called:**

**(a) Command area**

- (b) Catchment area
- (c) Watershed
- (d) None of these

**(16) A group of plants having identical genetic makeup from a single parent is called:**

**(a) Clone**

- (b) Race
- (c) Tribe
- (d) None of these

**(17) C.E.C stands for:**

**(a) Cation Exchange Capacity**

- (b) Calcium Exchange Capacity
- (c) Carbon Enriched Compounds
- (d) None of these

**(18) Breakdown of nitrate and nitrite by bacteria in an anaerobic condition is called:**

**(a) Denitrification**

- (b) Mineralization
- (c) Immobilization
- (d) None of these

**(19) Best root stock of citrus in Punjab is:**

- (a) Jhatti khatti
- (b) Rough lemon
- (c) Sour orange
- (d) None of these

**(20) The expectation of occurrence of a particular event is called:**

**(a) Probability**

- (b) Replication
- (c) Convergence
- (d) None of these

**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS  
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**COMPULSORY**

**Q.1. Select the best option/answer and fill in the appropriate box on the Answer Sheet. (20)**

**(i) White revolution refers to the revolution in:**

- (a) Rice production
- (b) Milk production**
- (c) Cotton production
- (d) None of these
- (e) All of these

**(ii) Organic farming is important because of:**

- (a) Toxic free plants
- (b) GMO free
- (c) Eco friendly
- (d) Healthy for humans
- (e) All of these**

**(iii) Which of the following is not a good source of dietary fiber?**

- (a) Pasta
- (b) Brown rice
- (c) Egg
- (d) Bread
- (e) All of these

**(iv) The branch of agriculture that deals with rearing of silkworm is called:**

- (a) Olericulture
- (b) Sericulture**
- (c) Apiculture
- (d) Viticulture
- (e) None of these

**(v) *Oryza Sativa* is the botanical name of:**

- (a) Rice**
- (b) Wheat
- (c) Barley
- (d) Sorghum
- (e) None of these

**(vi) *Xanthomonas citri* is the disease causal organism of citrus.**

- (a) Bark splitting
- (b) Foot rot
- (c) Canker**
- (d) Citrus decline
- (e) None of these

**(vii) Cholistani, Kali, Damani, Kachi and Bibrik are some of the breeds of:**

- (a) Goats
- (b) Camel
- (c) Buffalo
- (d) Sheep**
- (e) None of these

**(viii) Inflation of mammary glands of milch animals is called:**

- (a) Johne's disease
- (b) Tuberculosis
- (c) Mastitis**
- (d) Leptospirosis
- (e) None of these

**(ix) Patoto is an example of:**

- (a) Root crop**
- (b) Legumes
- (c) Fiber crop
- (d) Sugar crop
- (e) None of these

**(x) Tobacco is an example of:**

- (a) Kharif crop
- (b) Rabi crop
- (c) Zaid rabi crop**
- (d) Zaid Kharif crop
- (e) None of these

**(xi) Peanuts are:**

- (a) Roots
- (b) Grains
- (c) Legumes**
- (d) Nuts
- (e) None of these

**(xii) Which of the following insects is friendly for an organic farmer?**

- (a) Stem borer
- (b) Root borer
- (c) Boll worm
- (d) Mango mealy bug
- (e) None of these** (Please confirm it)

**(xiii) Money maker, Roma, Red top are some of the varieties of:**

- (a) Chillies
- (b) Potato
- (c) Tomato**
- (d) Onion
- (e) None of these



**(xiv) Swollen underground stem; an organ of food storage and propagation is called:**

- (a) Rhizome
- (b) Tuber**
- (c) Scion
- (d) Septa
- (e) None of these

**(xv) Plants having soft, non woody growth are called:**

- (a) Herkogamous
- (b) Hermaphrodite
- (c) Herbaceous**
- (d) Homozygous
- (e) None of these

**(xvi) Removal of exchangeable sodium from the soil is called:**

- (a) Denitrification
- (b) Desalinization
- (c) Desodication**
- (d) Decortication
- (e) None of these

**(xvii) Enzymes are biocatalysts and their nature is:**

- (a) Fat
- (b) Carbohydrate
- (c) Fiber
- (d) Protein**
- (e) None of these

**(xviii) Khapra beetle is the pest of:**

- (a) Rice
- (b) Sorghum
- (c) Barley
- (d) All of these**
- (e) None of these

**(xix) L-113, PR-100 and BL-4 are the varieties of:**

- (a) Rice
- (b) Wheat
- (c) Cotton
- (d) Sunflower
- (e) None of these

**(xx) Which one of the following is non essential amino acid?**

- (a) Lysine
- (b) Leucine
- (c) Isoleucine
- (d) Glutamine**
- (e) None of the above

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**COMPULSORY**

**Q.1. Select the best option/answer and fill in the appropriate box on the Answer Sheet. (20)**

**(i) Wheat inflorescence is called as:**

- (a) Spike**
- (b) Panicle
- (c) Spadix
- (d) Cymose
- (e) None of these

**(ii) Soil structure can be improved with the addition of:**

- (a) Chemical fertilizer
- (b) Gypsum
- (c) Lime
- (d) Organic matter**
- (e) None of these

**(iii) Humidity is measured by means of:**

- (a) Luxmeter
- (b) Anemometer
- (c) Psychrometer**
- (d) Thermometer
- (e) None of these

**(iv) When soil surface is protected/covered with residue of a crop, the practice is called?**

- (a) Sheet erosion
- (b) Nitrogen fixation
- (c) Tillage
- (d) Mulching**
- (e) None of these

**(v) Which of the following is not a fruit?**

- (a) Tomato
- (b) Potato**
- (c) Pumpkin
- (d) Melon
- (e) None of these

**(vi) Which one of the following is a good source of protein?**

- (a) Wheat
- (b) Maize
- (c) Pulses
- (d) Meat**
- (e) None of these

**(vii) The vector of cotton leaf curl virus in Pakistan is considered as:**

- (a) Jassid
- (b) Aphid
- (c) Pink boll worm
- (d) White fly**
- (e) None of these

**(viii) In genetics the appearance of an attribute of living organism is termed as:**

- (a) Dominant
- (b) Phenotype**
- (c) Recessive
- (d) Genotype
- (e) None of these

**(ix) Rhizobium belongs to:**

- (a) Nitrogen fixing bacteria**
- (b) Amonifying bacteria
- (c) Nitrifying bactyeria
- (d) Denitrifying bacteria
- (e) None of these

**(x) In DNA, adenine always pairs with:**

- (a) Guanine
- (b) Thymine**
- (c) Uracil
- (d) Cytosine
- (e) None of these

**(xi) Insects have:**

- (a) 4 legs and 2 wings
- (b) 8 legs and 4 wing
- (c) 6 legs and 4 wings**
- (d) 4 legs and 4 wings
- (e) None of these

**(xii) Tikka disease is major pathogenic threat in:**

- (a) Wheat
- (b) Apple
- (c) Sorghum
- (d) Groundnut**
- (e) None of these

**(xiii) Food and Agriculture Organization (FAO) has its headquarters in:**

- (a) Washington
- (b) Geneva
- (c) Rome**
- (d) Paris
- (e) None of these

**(xiv) Soil salinity can be rectified with:**

- (a) Urea
- (b) Ammonium Sulphate
- (c) Sodium Chloride
- (d) Gypsum**
- (e) None of these

**(xv) Safflower is an:**

- (a) Oil producing plant**
- (b) Ornamental plant
- (c) Leguminous plant
- (d) Fibre producing plant
- (e) None of these

**(xvi) Banana fruit is classified in the category of:**

- (a) Berry**
- (b) Pomes
- (c) Stone fruit
- (d) Drupe
- (e) None of these

**(xvii) Ploidy level of maize plant is:**

- (a) Monoploid
- (b) Diploid**
- (c) Haploid
- (d) Tetraploid
- (e) None of these

**(xviii) Gypsum is rich source of:**

- (a) Calcium + Zinc
- (b) Calcium + Potassium
- (c) Calcium + Sulphur**
- (d) Calcium + Nitrogen
- (e) None of these

**(xix) *Gossypium hirsutum* is the botanical name of:**

- (a) Rice
- (b) Maize
- (c) Sugarcane
- (d) Cotton**
- (e) None of these

**(xx) Olericulture is the study dealing with:**

- (a) Honey bee
- (b) Rearing of silk worms
- (c) Vegetable production**
- (d) Growing ornamental flowers
- (e) None of the above

**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS  
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**COMPULSORY**

**Q.1. Select the best option/answer and fill in the appropriate box on the Answer Sheet. (20)**

**(i) Sorghum inflorescence is called:**

- (a) Panicle**
- (b) Flower
- (c) Ear
- (d) Spike
- (e) None of these

**(ii) The first carboxylation enzyme in C4 plants is:**

- (a) Rubisco
- (b) Carbon anhydrase
- (c) Phosphoenol pyruvate carboxylase**
- (d) Rubisco activase
- (e) None of these

**(iii) Barnyard grass is an important weed of?**

- (a) Maize
- (b) Rice**
- (c) Wheat
- (d) Sunflower
- (e) None of these

**(iv) Plants take nitrogen from the soil in the form of:**

- (a) Nitrate
- (b) Ammonium
- (c) Ammonia
- (d) Both (a) and (b)**
- (e) None of these

**(v) Photo respiration is mostly observed in:**

- (a) CAM plants** (Please confirm it)
- (b) C4 plants
- (c) C3 plants
- (d) Xerophytes
- (e) None of these

**(vi) KS-282 and KS-133 are the cultivars of:**

- (a) Maize
- (b) Wheat
- (c) Coarse rice**
- (d) Fine rice
- (e) None of these

**(vii) Green revolution refers to the development of:**

- (a) Cultivars with more green foliage
- (b) Dwarf varieties
- (c) Dwarf high fertilizer responsive varieties**
- (d) Fertilizer responsive varieties
- (e) All of these

**(viii) Which is the example of root crop:**

- (a) Potato** (Please confirm as sweet potato and carrot are also root vegetables)
- (b) Sweet potato
- (c) Ground nut
- (d) Carrot
- (e) None of these

**(ix) Bread wheat is:**

- (a) Monoploid
- (b) Diploid
- (c) Tetraploid
- (d) Hexaploid**
- (e) None of these

**(x) Castor bean is:**

- (a) Ornamental plant
- (b) Cereal crop
- (c) Pulse crop
- (d) Oil seed crop**
- (e) None of these

**(xi) Bolting refers to emergence of inflorescence in:**

- (a) Sugarcane
- (b) Sugarbeet**
- (c) Potato
- (d) Sweet potato
- (e) None of these

**(xii) Sericulture is the study of:**

**(a) Silkworm**

- (b) Lac insect
- (c) Honey bee
- (d) White fly
- (e) None of these

**(xiii) Which one is not the source of phosphorus:**

- (a) Nitrophos
- (b) DAP
- (c) MOP**
- (d) SSP
- (e) None of these

**(xiv) CLCV is a major disease of:**

- (a) Corn
- (b) Cotton**
- (c) Wheat
- (d) Citrus
- (e) None of these

**(xv) International maize and wheat improvement centre (CIMMYT) has its headquarter in:**

- (a) Switzerland
- (b) France
- (c) USA
- (d) Mexico**
- (e) None of these

**(xvi) In plants assimilates are translocated in the form of:**

- (a) Glucose
- (b) Fructose
- (c) Sucrose
- (d) Amylose
- (e) All of these** (Please confirm it)

**(xvii) Delta of water for wheat is:**

- (a) 12 acre inches
- (b) 16 acre inches**
- (c) 19 acre inches
- (d) 24 acre inches
- (e) None of these

**(xviii) Relative proportion of different soil particles is known as:**

- (a) Soil structure
- (b) Soil texture**
- (c) Soil profile
- (d) Soil tilth
- (e) None of these

**(xix) Tensio meter is used for the determination of:**

**(a) Soil moisture**

- (b) Soil minerals
- (c) Soil organic matter
- (d) Plant moisture
- (e) None of the above

**(xx) Kajli is the famous breed of:**

**(a) Sheep**

- (b) Goat
- (c) Cow
- (d) Buffalo
- (e) None of the above

**FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS  
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**COMPULSORY**

**Q.1. Select the best option/answer and fill in the appropriate box on the Answer Sheet. (20)**

**1. Ratio of additive variance to phenotypic variance is called:**

- (a) Heritability (Broad sense)
- (b) Heritability (Narrow sense)**
- (c) Co- Heritability
- (d) Gene Action
- (e) None of these

**2. Inflorescence of wheat plant is called:**

- (a) Spike**
- (b) Panicle
- (c) Arrow
- (d) Cob
- (e) None of these

**3. A Nullisomic individual is represented by:**

- (a)  $2n-1$
- (b)  $2n+1$
- (c)  $2n-2$**
- (d)  $2n+2$
- (e) None of these



**4. Ribosomes are the sites of:**

- (a) Fat synthesis
- (b) Protein synthesis**
- (c) Photosynthesis
- (d) Anaerobic respiration
- (e) None of these

**5. Type of sugar present in DNA is:**

- (a) Pentose**
- (b) Hexose
- (c) Heptose
- (d) Triose
- (e) None of these

**6. Maize has 10 pairs of chromosomes. How many linkage groups will be present in maize if all genes are mapped?**

- (a) 10**
- (b) 20
- (c) 40
- (d) 15
- (e) None of these

**7. pH of Urea fertilizer is:**

- (a) 4.00
- (b) 3.5
- (c) 8.0**
- (d) 7.0
- (e) None of these

**8. According to 1972 Land Reforms, ceiling of land was:**

- (a) 1000 acres irrigated and 2000 acres Barani land
- (b) 500 acres irrigated and 1000 acres Barani land
- (c) 250 acres irrigated and 500 acres Barani land
- (d) 150 acres irrigated and 300 acres Barani land**
- (e) None of these

**9. Which type of soil holds more water?**

- (a) Sandy
- (b) Stony
- (c) Clayey** (Please confirm)
- (d) Silty
- (e) None of these

**10. Hydrosphere refers to:**

- (a) Zone of water**
- (b) Zone of earth crust
- (c) Zone of atmosphere
- (d) Zone of air
- (e) None of these

**11. Which compound is mostly used for the reclamation of saline-sodic and sodic soils?**

- (a) Apartite
- (b) Calcite
- (c) Dolomite
- (d) Gypsum**
- (e) None of these

**12. Carrot, Radish , Cabbage and Beet are:**

- (a) Annual
- (b) Biennial** (Please confirm)
- (c) Perennial
- (d) Woody perennial
- (e) None of these

**13. Which one of the following is not a fruit?**

- (a) Tomato
- (b) Potato**
- (c) Musk melon
- (d) Water melon
- (e) None of these

**14. The body of a sheep is covered with specialized fibres known as:**

- (a) Hairs
- (b) Fleece**
- (c) Wool
- (d) Fuz
- (e) None of these

**15. Bovine is a term used for:**

- (a) Cattle** (Please confirm)
- (b) Buffalo
- (c) Sheep
- (d) Goat
- (e) None of these

**16. The act of giving birth to young ones in animals is called:**

- (a) Ovulation
- (b) Fertilization
- (c) Parturition**
- (d) Conception
- (e) None of these

**17. The type of mouth parts of the grass hopper are:**

- (a) Chewing**
- (b) Sucking
- (c) Piercing and sucking
- (d) Biting and sponging
- (e) None of these

**18. Bacteria reproduce asexually by means of:**

- (a) Fragmentation
- (b) Budding
- (c) Binary fission**
- (d) Multiplication
- (e) None of these

**19. All goods and services produced in a country in one year are called:**

- (a) GNP
- (b) GDP**
- (c) NDP
- (d) NNP
- (e) None of these

**20. Uniform removal of soil in thin layer from sloping land is called:**

- (a) Sheet erosion**
- (b) Rill erosion
- (c) Gully erosion
- (d) Stream channel erosion
- (e) None of these