

FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN PBS-17, UNDER THE FEDERAL GOVERNMENT, 2003

AGRICULTURE

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

NOTE: Attempt FIVE questions in all, including Question No. 8 which is **COMPULSORY**. All questions carry EQUAL marks. Write clearly.

1. Discuss the role of soil in relation to crop production? What is the significance of different phases of soil in plant nutrition?
2. Discuss biotic stresses affecting crop production and discuss perspective of integrated pest Management with special reference to Pakistan.
3. Importance of Agriculture in economy ^{of Pakistan} ~~crop production~~ can't be underestimated. How do you comment on the statement?
4. What are prerequisites for successful plant propagation? Discuss different modes of reproduction and factors influencing success in vegetable propagation?
5. Discuss measures to bridge the gaps persisting between national average yield of major crops and their potential yield?
6. Write short notes on any FOUR of the following:
 - (a) Photoperiodism
 - (b) Alliloparasitism
 - (c) Integrated plant nutrient system (IPNS).
 - (d) Impact of WTO on agriculture in developing countries.
 - (e) Role of Biofertilizers in Agriculture
 - (f) Role of Statistics in Agriculture research.
7. Differentiate between the following:
 - (a) Respiration and photorespiration
 - (b) Soil texture & soil structure
 - (c) Tissue culture & Mutation breeding
 - (d) Apoplasmic & Symplasmic ion movement
 - (e) Thin layer chromatography vs. Gas chromatography

COMPULSORY QUESTION

8. Write only the correct answer in the Answer Book. Do not reproduce the question.
 - (1) Texture of soil is:

(a) Arrangement of soil particles	(b) Wheat
(b) Relative proportion of soil particles	(d) None of these
(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 placed:

(e) Cereals	(b) Legumes
(c) Fiber	(d) None of these

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- (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

TIN
NO

1.

2.

(B) Fill in the blanks:

- (11) The science of vegetable production is called-----.
- (12) The actual amount of water present in air is called-----.
- (13) Rearing of honeybees is called-----.
- (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-----.
- (16) Plants which drop their leaves during winter are called-----.
- (17) An individual with both male & female genitalia is called-----.
- (18) TLC stands for -----.
- (19) Arid Agriculture means-----.
- (20) Botanical name of wheat is-----.

3.

4
in
range
