CEPI PAKISTAN
COMPETITIVE EXAMS PREPARATORY INSTITUTE

FEDERAL PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION-2025 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

AGRICULTURE & FORESTRY

Roll Number

TIME ALLOWED: THREE HOURS	**(PART-I MCQs)**	**MAXIMUM MARKS: 20**
PART-I (MCQs) : MAXIMUM 30 MINUTES	**(PART-II)**	**MAXIMUM MARKS: 80**

NOTE: (i) First attempt **PART-I (MCQs)** on separate **OMR Answer Sheet** which shall be taken back after **30 minutes.**
(ii) Overwriting/cutting of the options/answers will not be given credit.
(iii) There is **no negative** marking. All MCQs must be attempted.

PART-I (MCQs)(COMPULSORY)

Q.1. (i) Select the best option/answer and fill in the appropriate Box ☐ on the **OMR Answer Sheet.(20x1=20)**
(ii) Answers given anywhere else, other than OMR Answer Sheet, will not be considered.

1. **Neem tree is used for:**
   (A) Timber (B) Fuel (C) Fodder (D) Medicine
2. **The solar radiation that bounces back in the atmosphere is mostly:**
   (A) Gamma rays (B) Alpha rays (C) X-rays (D) Infra red rays
3. **A structure for diverting the flow of water in a river is called:**
   (A) Dyke (B) Gully plug (C) Dam (D) Sunken dam
4. **Range area refers to a large semi arid area having vegetation suitable for:**
   (A) Fuel (B) Grazing (C) Shelter (D) Shade
5. **National climate change policy was prepared in:**
   (A) 2010 (B) 2012 (C) 2013 (D) None of these
6. **Genome D of wheat is most probably contributed by:**
   (A) *T.aestivum* (B) *T.aegilops* (C) *T.tauschii* (D) *Secalecereal*
7. **Crossing of a hybrid individual with any one of its parents is called:**
   (A) Back cross (B) Top cross (C) Test Cross (D) Multiple cross
8. **Inbreeding leads towards depression in productivity in:**
   (A) Self pollinated crops (B) Cross pollinated crops
   (C) Vegetatively propagated crops (D) None of these
9. **In gel electrophoresis DNA is separated on the basis of :**
   (A) Charge (B) Size (C) Random movement (D) None of these
10. **Crop plants which protect the soil surface from erosion are called:**
    (A) Nurse crops (B) Cover crops (C) Trap crops (D) Relay crops
11. **Country that leads as highest in wheat productivity in the world is:**
    (A) Pakistan (B) India (C) China (D) United States
12. **In 1992-93 the great decline in cotton production was due to the attack of :**
    (A) American Bollworm (B) Pink Bollworm (C) Cotton leaf curl virus (D) Spotted bollworm
13. **Raising of only one crop in a year when there is a seasonal supply of water is called:**
    (A) Mono-cropping (B) Monoculture (C) Specialized farming (D) None of these
14. **Nipping in chickpea is practice used to:**
    (A) Protect from lodging (B) Reduce height (C) Enlarge branching (D) All of these
15. **As per principles of crop rotation pulses should be included in rotation to:**
    (A) Increase pulses production (B) Increase yield of succeeding crop
    (C) Help in improving soil fertility (D) Improving profitability of farmers
16. **Nitrogen is absorbed by plant roots in the form of:**
    (A) NO_3 (B) NO_2 (C) N_2O (D) N_20_2
17. **Conversion of organic form of an element into an inorganic form is termed as:**
    (A) Mineralization (B) Immobilization (C) Nitrification (D) Denitrification
18. **About 80% of the phosphorus transported from soil to root surface is through:**
    (A) Diffusion (B) Root interception (C) Mass flow (D) Bulk flow
19. **Which of following is not an essential plant nutrient?**
    (A) Molybdenum (B) Copper (C) Chloride (D) Cadmium
20. **Sex nucleus which fuses with another in sexual reproduction is known as:**
    (A) Cell (B) Seed (C) Spore (D) Gamete

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PART-II

NOTE: (i) **Part-II** is to be attempted on the separate **Answer Book.**
(ii) Attempt **ONLY FOUR** questions from **PART-II** by selecting **TWO** questions from **EACH SECTION**. **ALL** questions carry **EQUAL** marks.
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.
(vi) Extra attempt of any question or any part of the question will not be considered.

SECTION-A

Q. No. 2. Economy of any country lies in its natural resources besides its rapid industrial development. Elaborate the strategies for sustainable use of non- renewable resources along with capping the renewable resources. **(20)**

Q. No. 3. New Zealand's grass fed cows produce some of the world's best quality milk. Describe the factors which can influence the high quantity and high quality milk production of Pakistani dairy industry. **(20)**

Q. No. 4. Our agricultural system is crippled by land structure and depleting soil nutrients. Suggest concrete measures to help restore the soil formation and maintain the nutrient level of our soils. **(20)**

Q. No. 5. Write short notes on the following: **(5 each)** **(20)**

(a) Use of Speed breeding technology
(b) Issues of hybrid wheat development
(c) Reasons for breakdown of disease resistance
(d) Scope of farm mechanization in Pakistan

SECTION-B

Q. No. 6. Trees are called the lungs of the earth and are important component of biodiversity but deforestation is taking place at an accelerated rate. Propose a concrete plan by which requisite goods and services are provided to the community without damaging the biodiversity. **(20)**

Q. No. 7. Forests have a special importance in the human life and as well as for economic development of any country. Critically discuss the reasons for low forest cover in Pakistan and suggest concrete measures to increase the forest area. **(20)**

Q. No. 8. Write short notes on the following: **(5 each)** **(20)**

(a) Miyawaki method of forest plantation
(b) Prevention of forest fire
(c) Threats to mangrove forests
(d) Role of mulberry in pollen allergy

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