

FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS
IN BPS-17 UNDER THE FEDERAL GOVERNMENT, 2001.

FORESTRY

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. Avoid writing irrelevant material for the sake of
bulk. Organize your write – up.

1. Discuss problems of coniferous Forests of Pakistan. Also give suggestions for sustainable management of these forests.
2. Describe the role of Northern Mountain Watershed region in alleviating the present water crises in the country.
3. What do you know about Forest Mensuration? Describe various methods for calculating true volume of standing tree.
4. Write short essays on the following:
 - (a) Thinnings
 - (b) Game sanctuary
 - (c) Mangrove Forests of Pakistan and marine fauna.
 - (d) Agro grazing
5. Explain single stem silvicultural system. Give suggestions for effective silvicultural management of Juniper forests.
6. What do you mean by scientific/commercial Range Management? Why has it not taken roots in Pakistan so far?
7. Discuss briefly how Forestry can be integrated with other agricultural and non-agricultural land uses in the country.

COMPULSORY QUESTION

8. Write only the correct answer in the Answer Book. Don't reproduce the questions.
 - (A) Fill in the blanks:
 - (1) Tree age can be estimated by counting _____
 - (2) Wood is largely made of cellulose and _____

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- (3) _____ is made of thin veneers pasted over each other across the grains.
- (4) Most important hurdle in popularizing Eucalyptus is absence of reliable and attractive _____ for its logs.
- (5) The only possible and practical break through in timber production in present day Pakistan appears to be _____.
- (6) We can highly increase browse production in Pothowar region by promoting the growth of one indigenous species such as _____.
- (7) In our salt affected former farm lands of Punjab and Sindh, we can easily plant following indigenous tree species _____.
- (8) Zigyphus species are undoubtedly over best _____ shrubs.
- (9) _____ is our best furniture wood.
- (10) Dominant tree species of Ziarat coniferous Forest is _____.

(B) Write only True or False in the answer book. Do not reproduce the questions.

- (11) Basal area means cross section area of a tree bole at the height of 4' - 6" above ground.
- (12) Tree volume of a bole is estimated by multiplying bole height in ft with basal area in ft².
- (13) Abney's level is an instrument used for measuring slopes.
- (14) Carrying capacity of scrub forest range means volume of fire wood produced per hectare.
- (15) Five sheep eat as much forage as 3 goats do.
- (16) Contour line means line of maximum slope on the ground surface.
- (17) Watershed line means a line on ground which divides falling rain water into two opposing directions.
- (18) Endangered species are those which are heading towards possible extinction.
- (19) A thick high timber forest is an ideal habitat for goats, deer, cattle leopards and lions.
- (20) A rill refers to a micro stream which can be easily obliterated by ploughing.
