

2

Taxonomical Aids

Every living organisms are interrelated in biosphere and it is necessary to know interrelations of these for the classification or taxonomical study. For these study places are important where plant and animal specimens are stored. Measures can also be taken for conservation of endangered and extinction-prone organisms. For these herbarium is most important. In these plant specimens are collected from various places and different types of specific methods applied on them, then they are stored and studied for years. These types of herbarium has many uses.

- (1) Which of the following is correct group of diversities in living organisms ?
(A) Structure, function and Behaviour (B) Shape, relation, Habitat
(C) Height, Weight, shape (D) Food, Energy, Function
- (2) For what classification of organisms and identity is necessary ?
(A) In laboratory (B) Field studies
(C) Geographical distribution (D) A and B both
- (3) Which branch of science is important for identity and interrelationship ?
(A) Biology (B) Classification (C) Embryology (D) Physiology
- (4) Which of the following requires classification studies ?
(A) Agriculture, forestry, industry (B) Biodiversity and bio resources knowledge
(C) To study future of living being (D) All of the above
- (5) Which of the following is main source for study of classification ?
(A) Collection of specimens of living organisms (B) Collection of fossils of organisms
(C) Collection of diagrammatic sheets (D) Collection of dead bodies of organisms
- (6) What is the use of classification of various geographical area ?
(A) Can prepare maps (B) Can prepare plant groups
(C) Can prepare animal groups (D) B and C both
- (7) For which type of organisms conservation programme can be arranged by classification ?
(A) Endangered and extinction-prone organisms (B) Organisms who failed to reproduce
(C) Organisms in very less number (D) All the above
- (8) Plant specimens are collected in...
(A) Green house (B) Botanical gardens (C) Plant museum (D) National park
- (9) Which is the correct sequence for plant specimen collection ?
(A) Collection - Pressing - mounting - drying - poisoning
(B) Collection - Pressing - drying - poisoning - mounting
(C) Collection - Drying - pressing - poisoning - mounting
(D) Collection - Drying - poisoning - pressing - mounting
- (10) Which paper is used to dry plant specimens ?
(A) Parchment paper (B) Blotting paper (C) Filter paper (D) Chromatography paper

- (11) What is poisoning ?
 (A) Cultivation in special chemical (B) To put naphthalene balls in specimen
 (C) To sprinkle special chemical (D) To add special toxic substances
- (12) Which treatment is used to preserve dry plant specimens by special chemical ?
 (A) Fumigation (B) Pressing (C) Mounting (D) Poisoning
- (13) To mount plant specimen on a specific size of sheet is known as...
 (A) Cobalt sheet (B) Copper sheet (C) Herbarium sheet (D) Chloride sheet
- (14) Which process is done to protect herbarium sheet from fungi, insects and humidity ?
 (A) to put in plastic bag (B) to change cupboard
 (C) to put Naphthalene balls (D) A and B both
- (15) Against which factors fumigation provides protection ?
 (A) Fungi, Algae, Humidity (B) Algae, Insects, Humidity
 (C) Algae, Fungi, Draught (D) Fungi, Insects, Humidity
- (16) Where can we label on Herbarium sheet ?
 (A) upper left (B) lower left (C) lower right (D) upper right
- (17) What is useful for economical and ethnobotanical information ?
 (A) Botanical garden (B) Herbarium (C) Museum (D) All of the above
- (18) What provides key for modern classification system ?
 (A) Botanical Garden (B) Museum (C) Herbarium (D) None of the above
- (19) Where is the museum of Royal Botanical Garden located ?
 (A) Kew (B) London (C) Paris (D) Dehradun
- (20) Where is the herbarium for forest research institute located ?
 (A) England (B) Dehradun (C) Darjeeling (D) Paris
- (21) Location of Museum of Natural History
 (A) England (B) Kolkata (C) Dehradun (D) Paris
- (22) Which famous museum is located in Kolkata-India ?
 (A) Herbarium, Department of Botany (B) Herbarium of forest research
 (C) Central National Herbarium (D) Museum of Natural History
- (23) Location of herbarium, department of Botany
 (A) France (B) Vadodara (C) England (D) Kolkata
- (24) What is helpful to get necessary information for verifying and identifying newly collected plant species ?
 (A) Botanical Garden (B) Herbarium (C) Museum (D) None of the above
- (25) Where can we study rare plant species, not available in our area ?
 (A) Botanical Garden (B) Museum (C) Herbarium (D) None of the above

Answers : (1-A), (2-D), (3-B), (4-D), (5-A), (6-D), (7-A), (8-C), (9-B), (10-B), (11-C), (12-A), (13-C), (14-C), (15-D), (16-C), (17-B), (18-C), (19-A), (20-B), (21-D), (22-C), (23-B), (24-B), (25-C)

• **Botanical gardens and their importance :**

Botanical Garden means scientifically planned collection of trees, shrubs, herbs and climbers and other living plants from different parts of the globe. They are different from public parks and gardens. Various kinds of plants having medicinal and economic importance as well as rare plants are cultivated and maintained in botanical gardens. Thus these gardens play important role in different regions.

- (26) What is appropriate for botanical garden ?
 (A) Plants from different gardens of the world.
 (B) It is different from public park and gardens.
 (C) A and B both
 (D) None of the above.
- (27) Where can we cultivate medicinal, economically important and rare plants ?
 (A) Nursery (B) Germplasm bank (C) Herbarium (D) Botanical garden
- (28) Which method is used to cultivate rare plants ?
 (A) Grafting (B) Fernary (C) Conservatory (D) Green House
- (29) Which of the following method is used to grow plants of other places by creating necessary (convinient) environment ?
 (A) Green house and Cactus house (B) Fernary and Orchidium
 (C) Glass house and Conservatory (D) All of the above
- (30) Which is the most beautiful place ?
 (A) Museum (B) Sanctuary (C) Zoo (D) Botanical Garden
- (31) What is the location of great Banyan tree ?
 (A) Indian Botanical Garden (B) Royal Botanical Garden
 (C) Lyoid Botanical Garden (D) National Botanical Garden
- (32) In which city the great Banyan tree is present ?
 (A) Lucknow (B) Darjeeling (C) Shibpur (D) Vaghai
- (33) Each plant species is labelled indicating its family, scientific name and location...
 (A) to make study easier. (B) self indication is better.
 (C) for beautification. (D) for self study.
- (34) In which fields, plants present in botanical gardens are used ?
 (A) Anatomy, Embryology (B) Plant, biochemistry, cell biology
 (C) Physiology and Ecology (D) All of the above
- (35) For what reason importance of botanical garden is being increased day-by-day ?
 (A) For conservation of endangered organisms (B) More cultivation of plants
 (C) For economical production (D) For reproduction related act
- (36) Which branch information are provided to public by botanical garden ?
 (A) Landscape gardening (B) Fruit culture (C) Anatomy (D) A and B both

- (37) When can we provide classification information at place in the botanical garden for research ?
 (A) If germplasm bank is present in it. (B) If cloning and hybridization occurs.
 (C) If it has aesthetic appeal. (D) If it has museum and library.
- (38) Which is the true method for production of new species ?
 (A) Grafting tissue culture (B) Cloning, hybridization
 (C) Fernery, Horticulture (D) A and B both
- (39) What is used for conservation of rare genes ?
 (A) Germplasm bank (B) Seed bank (C) Seed storage (D) Gene bank
- (40) Which of the following is incorrect for the contribution of botanical garden ?
 (A) For conservation of biodiversity and cultural heritage (B) For conservation of environment
 (C) For study of botany (D) For conservation of natural resources
- (41) What is the number of botanical gardens in IABG ?
 (A) 600 (B) 6000 (C) 8000 (D) 800
- (42) What is the full form of IABG ?
 (A) Indian association of botanical garden (B) Indian agriculture of botanical garden
 (C) International association of botanical garden (D) International agriculture of botanical garden
- (43) What is the location of Royal Botanical garden ?
 (A) England (B) Paris (C) New York (D) Kew
- (44) What is the location of Lyoid Botanical garden ?
 (A) Shibpur (B) Lucknow (C) Darjeeling (D) Vaghai
- (45) Where is the Indian botanical garden located ?
 (A) Shibpur (B) Lucknow (C) Darjeeling (D) Vaghai
- (46) What is the location of National botanical garden ?
 (A) Shibpur (B) Lucknow (C) Darjeeling (D) Vaghai
- (47) Where is the botanical garden located in Gujarat ?
 (A) Vadodara (B) Vaghai (C) Dang (D) Saputara
- (48) In which states of India botanical garden is present ?
 (A) Uttar Pradesh and West Bengal (B) Gujarat and Madhya Pradesh
 (C) Uttar Pradesh and Madhya Pradesh (D) Gujarat and Maharastra

Answers : (26-C), (27-D), (28-C), (29-D), (30-D), (31-A), (32-C), (33-B), (34-D), (35-A), (36-D), (37-D), (38-D), (39-D), (40-A), (41-D), (42-C), (43-D), (44-C), (45-A), (46-B), (47-B), (48-A)

• **Museum :**

Plant, animal and fossil specimens are collected in the museum for study and reference purposes. These type of museum are generally setup in schools and colleges as per requirement. Plant and animal specimens are preserved here and by the various methods animals are preserved in original form.

- (49) Which of the following shows speciality of university museum ?
(A) Primary level (B) Rich and less informative
(C) Rich and informative (D) Higher level
- (50) Which is the primary level museum ?
(A) School (B) University (C) Private Institute (D) Voluntary Institute
- (51) Where can we find ethnogallery ?
(A) Botanical museum (B) Botanical garden (C) Zoo (D) Zoological museum
- (52) What is ethno gallery ?
(A) Skeleton gallery (B) Mammalian gallery (C) Fossil gallery (D) Ethano gallery
- (53) Which solution is used to preserve specimens in containers or jars ?
(A) Preservative (B) Staining solution (C) Special chemicals (D) Enzymes
- (54) Which are different sections of zoological museum ?
(A) Library (B) Laboratory (C) Supervisor's home (D) All the above
- (55) Which method is used to preserve larger sized dead bodies of animals ?
(A) Scanning (B) Grafting (C) Stuffing (D) Cloning
- (56) What is Stuffing ?
(A) To put animals in chemicals.
(B) To put animals in glass cupboard.
(C) By pressing method.
(D) Stuffing dried plant powder and mixture of preservatives in animals.
- (57) Which is the famous museum of India ?
(A) Mumbai (B) Chennai (C) Kolkata (D) Vadodara
- (58) What is the location of Natural History Museum ?
(A) Mumbai (B) Chennai (C) Kolkata (D) Vadodara
- (59) What is the location of Zoological Survey of India ?
(A) Jodhpur (B) Kolkata (C) Mumbai (D) A and B both
- (60) Where can we study Museology ?
(A) Jodhpur (B) Kolkata (C) Vadodara (D) A and B both
- (61) Which is famous museum location ?
(A) Jodhpur (B) Kolkata (C) Vadodara (D) A and B both
- (62) Which one is the famous museum ?
(A) Natural History Museum (Mumbai) (B) Zoological Survey of India (Jodhpur, Kolkata)
(C) Central National Museum (D) Government Museum (Chennai)

Answers : (49-C), (50-A), (51-D), (52-D), (53-A), (54-D), (55-C), (56-D), (57-B), (58-A), (59-D), (60-C), (61-C), (62-D)

• **Zoological park :**

Zoological park means "an institution where various kinds of living animals are conserved and exhibited in captivity." The zoological parks in India are also sometimes referred as the Zoological gardens. Various objectives of the zoological parks are these. For the improvement that different situation would provide and concentration proper taken on their residences and diet. All the zoological park working under the observation of central Zoo authority. In Gujarat and in our nation so many zoological parks are situated.

-
- (63) What is the another name of zoological park ?
 (A) Zoological garden (B) Zoological museum (C) Zoo (D) Zoo habitation
- (64) "Ex-situ conservation" – This is main objective of...
 (A) Botanical garden (B) Museum (C) Zoological garden (D) Botanical Museum
- (65) Which of the following is included in objectives of zoological park ?
 (A) Hybridization, Rehabilitation (B) Conservation, animal behaviour
 (C) Public awareness, Study, tourism (D) All of the above
- (66) Which of the following is not area of zoological park ?
 (A) Nocturnal house (B) Skeleton house (C) Insect house (D) None of the above
- (67) Which are different sections of zoological parks ?
 (A) administration (B) Veterinary section (C) Research section (D) All of the above
- (68) Who works under CZA ?
 (A) Botanical garden (B) Museum (C) Botanical museum (D) Zoological park
- (69) What is the full form of CZA ?
 (A) Central zoological authority (B) Central zoo organization
 (C) Central zoological organization (D) Central zoo authority
- (70) Which of the following manages both private and government organization ?
 (A) IABG (B) CZA (C) WWF (D) WCC
- (71) Which of the following is not famous park of Gujarat ?
 (A) Safari Park (B) Indroda Park (C) Nehru zoological Park (D) Sakkarbaug
- (72) Which zoological park is located in Junagadh ?
 (A) Sakkarbaug (B) Indroda Park (C) Rani Jijamata Udhyan (D) Nehru Park
- (73) Zoological park of Gangtok...
 (A) Indroda Park (B) Nehru Park (C) Trivendram Park (D) Himalayan Park
- (74) Which zoological park is located at Chennai ?
 (A) Nehru Park (B) Arignar Anna (C) Himalayan (D) Rani Jijamata
- (75) Where does Rani Jijamata zoo present ?
 (A) Ahmedabad (B) Mumbai (C) Hyderabad (D) Chennai
- (76) What is the location of Indroda park ?
 (A) Ahmedabad (B) Junagadh (C) Sasangir (D) Gandhinagar
-

- (77) Where is National Zoological Park located ?
(A) Mumbai (B) New Delhi (C) Hyderabad (D) Chennai
- (78) How can we separate botanical garden from Herbarium ?
(A) to store plants (B) by research
(C) by library (D) by classification
- (79) Which is not appropriate ?
(A) Hybridization and Cloning (B) Glass house and Conservatory
(C) Horticulture and Landscape gardening (D) Conservation and hybridization
- (80) Which of the following provides facility to students for classification research ?
(A) Botanical garden (B) Herbarium (C) Gene Bank (D) Museum
- (81) Whose members' can provide proper understanding of Landscape gardening ?
(A) of Herbarium (B) of gene bank (C) of botanical garden (D) of library
- (82) What is developed for conservation of rare genes ?
(A) Gene bank (B) Green house (C) Herbarium (D) Library
- (83) Which of the following possess skeleton gallery ?
(A) Zoological garden (B) Zoological museum (C) Botanical garden (D) Herbarium
- (84) Which of the following helps to prepare flora and fauna of geographical regions ?
(A) Identification (B) Nomenclature (C) Classification (D) Geographical distribution
- (85) In which of the following we can develop Fernery, Conservatory, Orchidum ?
(A) Botanical garden (B) Herbarium (C) Museum (D) Zoological museum
- (86) Which of the following helps to measure endangered and extinction prone organisms ?
(A) Classification (B) Geographical isolation (C) Nomenclature (D) Identification
- (87) What is done before we put plant specimens in the pigeon-holes of steel or wooden cupboards ?
(A) Pressing (B) Drying
(C) Fixed on proper sized herbarium sheet after pressing and drying
(D) Mounted on definite size of thick sheet
- (88) What is related to Paris and Kew ?
(A) Herbarium of forest research, New York Botanical Garden
(B) Royal Botanical Garden, British Museum of Royal Botanical Garden
(C) Museum of Natural History, Royal Botanical Garden
(D) Herbarium of forest research, Lyoid Botanical Garden
- (89) How can we separate botanical garden from public park and gardens ?
(A) Plant species are grown for conservation of environment in this type of gardens.
(B) Plant species are grown for natural beauty in this type of gardens.
(C) Various kinds of plants having medicinal and economic value and rare plants are also cultivated and maintained in this garden.
(D) Plant images are protected in this gardens.

- (90) It can provide classification interrelationship.
(A) Horticulture (B) Landscape gardening (C) Botanical garden (D) Herbarium
- (91) How can we preserve dead bodies of birds and mammals ?
(A) by using preservatives (B) by drying dead bodies
(C) killing and pressing (D) stuffing dried power
- (92) Seed bank and Gene banks are protected in it...
(A) Herbarium (B) Botanical garden (C) Museum (D) Zoological park

Answers : (63-A), (64-C), (65-D), (66-B), (67-D), (68-D), (69-D), (70-B), (71-C), (72-A), (73-D), (74-B), (75-B), (76-D), (77-B), (78-C), (79-D), (80-B), (81-C), (82-A), (83-B), (84-C), (85-A), (86-B), (87-C), (88-C), (89-C), (90-C), (91-D), (92-B)

- (93) Which of the following is inappropriate pair ?
(A) Hybridization - Tissue culture (B) Aesthetic appeal - the great Banyan tree
(C) Germplasm bank - Gene (D) Public service - Horticulture
- (94) Find incorrect pair :
(A) Zoological survey of India - Kolkata (B) National Park - New Delhi
(C) Arignar Anna Park - Karnataka (D) Himalayan Park - Gangtok
- (95) Find incorrect pair :
(A) Indian Botanical Garden - Dehradun (B) Lyoid Botanical Garden - Darjeeling
(C) National Botanical Garden - Lucknow (D) Central National Herbarium - Kolkata
- (96) Choose two wrong pairs of the following :
(A) Nehru Park - New Delhi (B) Himalayan Park - Hyderabad
(C) Safari Park - Sasangir (D) Rani Jijamata Park - Mumbai
(A) B and C (B) C and D (C) A and B (D) B and D
- (97) Which of the following is not correct for zoological park ?
(A) Snake house (B) Nocturnal house (C) Bird house (D) Glass house
- (98) Which of the following is not true for Herbarium sheet ?
(A) Specimen is mounted. (B) It is put in sequence in cupboard.
(C) Poisoning is processed. (D) to examine by fumigation
- (99) Which of the following is not correct for Herbarium ?
(A) Identification of plant specimens (B) provides facility for taxonomic research
(C) Seed bank can be developed (D) provides key for preparation of modern classification
- (100) Which of the following is not correct for museum ?
(A) Maintenance of cultural heritage (B) Facility of Library and Laboratory
(C) Storage of fossils of animals and skeleton (D) Preservation of dead bodies by stuffing method

Answers : (93-A), (94-C), (95-A), (96-C), (97-D), (98-D), (99-C), (100-B)

- **A - Assertion, R - Reason questions :**

Choose the correct option of the following :

(A) A and R both are correct and R is the correct explanation of A.

(B) A and R both are correct but R is not correct explanation of A.

(C) A - True, R - False

(D) A - False, R - True

- (101) Assertion A : Herbarium is a store house of plant specimens collected from different localities.
Reason R : There are specific methods to store plant specimens in Herbarium.
(A) (B) (C) (D)
- (102) Assertion A : Specific methods like grafting, tissue culture, cloning and hybridization are used in Herbarium.
Reason R : Herbarium provides necessary information for verifying and identifying newly collected plant specimens.
(A) (B) (C) (D)
- (103) Assertion A : Different plant species are grown in Botanical garden.
Reason R : Botanical garden provides material for research-work.
(A) (B) (C) (D)
- (104) Assertion A : Botanical garden is different from public park and gardens.
Reason R : Plant species are grown for their identification in botanical garden.
(A) (B) (C) (D)
- (105) Assertion A : Herbarium provides facilities for taxonomical research to students.
Reason R : Herbarium provides key for the preparation of modern system of classification.
(A) (B) (C) (D)
- (106) Assertion A : The purpose of museum is to increase cultured heritage.
Reason R : The purpose of museum is to increase biodiversity.
(A) (B) (C) (D)
- (107) Assertion A : A label occurs on lower side of the Herbarium sheet.
Reason R : It shows scientific name, famous name, family, etc...
(A) (B) (C) (D)

Answers : (101-B), (102-D), (103-A), (104-A), (105-B), (106-C), (107-D)

- (108) Choose the correct pair :

Column - I

- (a) Museum of Natural History
(b) British museum of Royal botanical garden
(c) Central National Herbarium
(d) Herbarium of forest Research
(e) Herbarium, Department of Botany, M.S. University

(A) a-v, b-iii, c-iv, d-ii, e-i

(C) a-iii, b-iv, c-v, d-i, e-ii

Column - II

- (i) Vadodara
(ii) Dehradun
(iii) Kew (England)
(iv) Kolkata
(v) Paris (France)
(B) a-ii, b-iii, c-iv, d-v, e-i
(D) a-iv, b-v, c-i, d-ii, e-iii

(109) Choose the correct pair :

Column - I (Zoological park) **Column - II** (Place)

- | | | |
|---------------------|------------------|---------------------------------|
| (a) Safari Park | (i) Trivendram | (A) a-ii, b-iii, c-iv, d-i, e-v |
| (b) Sakkarbaug | (ii) Gandhinagar | (B) a-iii, b-iv, c-v, d-ii, e-i |
| (c) Zoological Park | (iii) Sasangir | (C) a-iv, b-v, c-i, d-iii, e-ii |
| (d) Indroda Park | (iv) Junagadh | (D) a-v, b-i, c-ii, d-iv, e-iii |
| (e) Trivendram | (v) Vadodara | |

(110) Choose the correct pair :

Column - I **Column - II**

- | | | |
|------------------------------|----------------|---------------------------------|
| (a) National Zoological park | (i) Gangtok | (A) a-ii, b-i, c-iii, d-iv, e-v |
| (b) Rani Jijamata zoo | (ii) Chennai | (B) a-iii, b-ii, c-iv, d-v, e-i |
| (c) Nehru Zoological park | (iii) Mumbai | (C) a-iv, b-iii, c-v, d-i, e-ii |
| (d) Himalayan | (iv) New Delhi | (D) a-v, b-iv, c-i, d-ii, e-iii |
| (e) Arignar Anna | (v) Hydrabad | |

(111) Choose the correct pair :

Column - I (Botanical garden) **Column - II** (Place) **Column - III** (Area)

- | | | |
|-------------------------------|----------------|-------------------|
| (a) Royal botanical garden | (1) Shibpur | (i) Britain |
| (b) New York botanical garden | (2) Lucknow | (ii) West Bengal |
| (c) Indian botanical garden | (3) Darjeeling | (iii) U.S.A. |
| (d) National botanical garden | (4) Vaghai | (iv) Kolkata |
| (e) Lyoid botanical garden | (5) Kew | (v) Uttar Pradesh |
| (f) Botanical garden | (6) New York | (vi) Gujarat |
- (A) (a-5-i) (b-6-iii) (c-1-iv) (d-2-v) (e-3-ii) (f-4-vi)
 (B) (a-6-ii) (b-1-iv) (c-2-v) (d-3-vi) (e-4-iii) (f-5-i)
 (C) (a-1-iii) (b-2-v) (c-3-vi) (d-4-i) (e-5-iv) (f-6-ii)
 (D) (a-2-iv) (b-3-vi) (c-4-i) (d-5-ii) (e-6-v) (f-1-iii)

(112) Choose the correct pair :

Column - I (Museum) **Column - II** (Place)

- | | | |
|--------------------------------|---------------|----------------------------|
| (a) Natural History Museum | (i) Vadodara | (A) a-i, b-iv, c-iii, d-ii |
| (b) Zoological Survey of India | (ii) Chennai | (B) a-ii, b-i, c-iv, d-iii |
| (c) Government Museum | (iii) Kolkata | (C) a-iii, b-ii, c-i, d-iv |
| (d) Study of museology | (iv) Mumbai | (D) a-iv, b-iii, c-ii, d-i |

(113) Choose the correct pair :

Column - I

Column - II

- | | |
|--|-----------------------|
| (a) Promotes ecotourism for employment | (i) Museum |
| (b) Stuffing method | (ii) Botanical garden |
| (c) Landscape gardening | (iii) Zoological park |
| (d) Key to prepare modern classification | (iv) Herbarium |
- (A) a-iv, b-ii, c-i, d-iii (B) a-iii, b-i, c-ii, d-iv
 (C) a-i, b-iii, c-iv, d-ii (D) a-ii, b-iv, c-iii, d-i

(114) Choose the correct pair :

Column - I**Column - II**

- | | | |
|--------------------------|-----------------------|----------------------------|
| (a) Fumigation method | (i) Botanical garden | (A) a-iii, b-ii, c-i, d-iv |
| (b) Conservation | (ii) Herbarium | (B) a-iv, b-iii, c-ii, d-i |
| (c) Ethanogallery | (iii) Zoological park | (C) a-i, b-iv, c-iii, d-ii |
| (d) Ex-situ conservation | (iv) Museum | (D) a-ii, b-i, c-iv, d-iii |

(115) Choose the correct pair :

Column - I**Column - II**

- | | |
|--|----------------------------|
| (a) To develop new species | (i) Stuffing |
| (b) Preservation of dead bodies of birds and mammals | (ii) Preservative |
| (c) Preservation of specimens in bottles of glass jars | (iii) Germplasm |
| (d) To obtain improved varieties | (iv) Cloning |
| (A) a-iii, b-iv, c-i, d-ii | (B) a-iv, b-i, c-ii, d-iii |
| (C) a-i, b-ii, c-iii, d-iv | (D) a-ii, b-iii, c-iv, d-i |

(116) Choose the correct pair :

Column - I**Column - II**

- | | |
|----------------------------|---|
| (a) Herbarium | (i) Ex-situ conservation |
| (b) Botanical garden | (ii) Key to prepare modern classification |
| (c) Museum | (iii) Conserve natural resources |
| (d) Zoological park | (iv) Conserve biodiversity |
| (A) a-ii, b-iii, c-iv, d-i | (B) a-iii, b-iv, c-i, d-ii |
| (C) a-iv, b-i, c-ii, d-iii | (D) a-i, b-ii c-iii, d-iv |

Answers : (108-A), (109-B), (110-C), (111-A), (112-D), (113-B), (114-D), (115-B), (116-A)

• **Questions for NEET :**

(117) Most famous botanical garden of the world

- | | |
|---|--|
| (A) Lyoid botanical garden, Darjeeling. | (B) New York botanical garden, U.S.A. |
| (C) Royal botanical garden, Kew, England. | (D) Royal botanical garden, Sydney, Australia. |

(118) Which of the following is important function of botanical garden ?

- | | |
|---|--|
| (A) Tropical plants can be seen in botanical garden | |
| (B) Ex-situ conservation of germplasm bank is done here | |
| (C) It provides natural habitat to wild life | (D) It provides beautiful area for entertainment |

(119) Which of the following is an effective method for conservation of biodiversity ?

- | | |
|----------------------------------|--------------------------------|
| (A) Development of gene bank | (B) Tissue culture |
| (C) Creating conserved biosphere | (D) Creating Botanical gardens |

(120) What is it known where dry plant specimens are conserved and studied ?

- | | |
|--------------|---------------|
| (A) Arboreum | (B) Museum |
| (C) Vasculum | (D) Herbarium |

- (121) Which of the following is the largest Herbarium ?
 (A) Kew (B) Geneva (C) Berlin (D) Sweden
- (122) Where does the conservation of dry plant specimens occur ?
 (A) Arboreum (B) Herbarium (C) Botanical garden (D) All of the above
- (123) Botanical garden and Zoological garden means...
 (A) Storage of native living species (B) Storage of foreign living species
 (C) Storage of native and foreign living species (D) Storage of native plants and animals
- (124) Which of the following is appropriate for germplasm bank ?
 (A) To develop Herbarium sheets. (B) To develop new plant species
 (C) To create seed bank (D) All of the above
- (125) Choose the correct sequence to fill information on right side of Herbarium ?
 (A) Scientific name - Family - Popular name - Location of its collection
 (B) Popular name - Family - Location of its collection - Scientific name
 (C) Family - Popular name - Scientific name - Location of its collection
 (D) Location of its collection - Family - Popular name - Scientific name
- (126) Which type of information is given to general public to understand botanical garden ?
 (A) Tissue culture (B) Hybridization (C) Cloning (D) Landscape gardening
- (127) Which are the fields integrated for research work by using living plant species from botanical gardens ?
 (A) Anatomy (B) Cytology (C) Embryology (D) All of the above

Answers : (117-C), (118-B), (119-C), (120-D), (121-A), (122-B), (123-C), (124-C), (125-A), (126-D), (127-D)

Keys – Taxonomical science

- For identification of livings, artificial analytical instrument which is useful according rules.
- Generally every statement exhibits similarity or difference between two.
- Two types of keys - matter given within bracket and generally half-underlined matter, considered.

Botanical garden

- Habitat of living plants, collected for reference.
- Biggest Botanical garden is in Moscow.
- Most famous botanical garden in Kew, botanical garden.

Zoological park

- Method in which animals are protected freely in open area instead of cage. Based on specific proper protection.
- Study of wild animals and habit of their obtaining food can be understood properly.
- *ex-Situ* useful in breeding of nearly endangered species which is for animals.

Botanical museum/herbarium

- Accumulation of plants on thick paper sheet is generally shown which is done by drying, pressing and preservation.
- Paper size 41 cm × 29 cm
- Biggest Botanical museum is in Kew.

Museum

- Exhibition of specimens of natural history their storage and preservation place. It is balance of livings showing art and nature together. It provides information of livings from other areas, along with local plants and animals.