

SAMPLE CONTENT

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MCQs Navigator Book

MHT-CET

BIOLOGY

FOR STRONG FOUNDATION

- Based on Latest Paper Pattern
- Based on complete syllabus of Std. XI
- Quick Review
- Previous Years' Questions



Std.XI

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MHT-CET

Bridge Course MCQs Navigator

BIOLOGY

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Printed at: **Print to Print**, Mumbai

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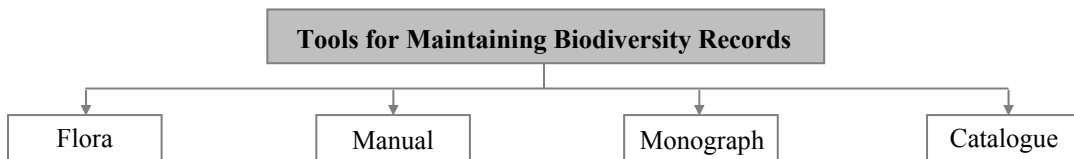
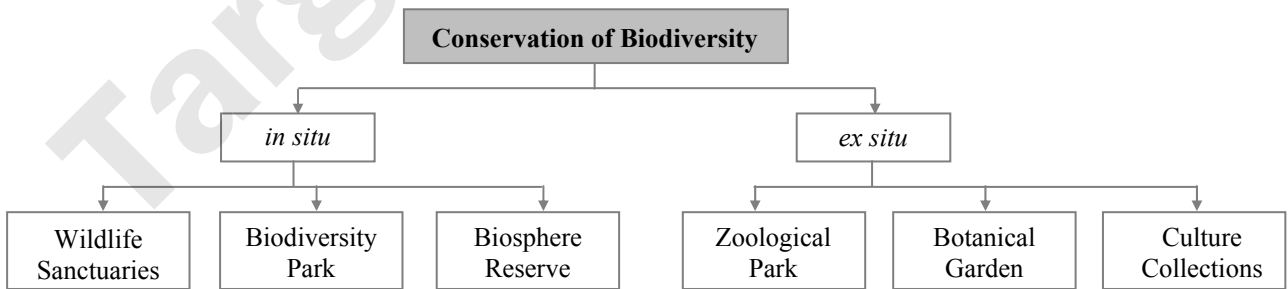
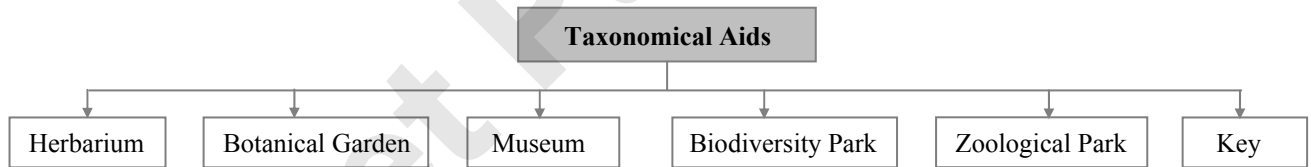
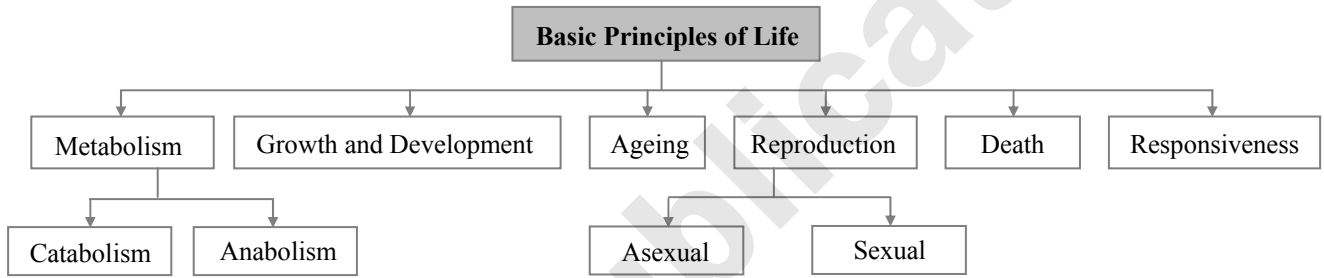
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Subtopics

- Introduction
- Basic principles of life
- Herbarium
- Botanical Gardens
- Zoological Parks
- Key



Quick Review





● Basic principles of life

- The property shown by both living and non-living things is
 - growth
 - consciousness
 - reproduction
 - cellular organization
- Find the ODD one out based on the characteristics of living organisms.
 - Mules
 - Hibiscus*
 - Sterile worker bees
 - Infertile human couples
- Which of the following statements represents the defining property of living organisms?
 - Worker bees are sterile.
 - Plants respond to external factors such as light, temperature, water etc.
 - Sand mounds grow due to accumulation of matter from outside.
 - All the above
- Which of the following statements is INCORRECT?
 - Mountains, boulders and sand mounds do grow if we take increase in body mass as criterion for growth.
 - Many organisms like mules, sterile worker bees and infertile human couples do not reproduce at all.
 - Living organisms are self-replicating, evolving and self-regulating interactive systems capable of responding to external stimuli.
 - Isolated metabolic reactions *in vitro* are living things.
- How many of the following properties are the defining characteristics of living organisms? Growth, reproduction, metabolism, cellular organisation, consciousness.

(A) 5 (B) 3 (C) 2 (D) 4
- Which of the following is a defining characteristic of living organisms?
 - Growth
 - Ability to make sound
 - Reproduction
 - Response to external stimuli
- Self-consciousness is the property of
 - human beings only
 - prokaryotes only
 - all living organisms
 - eukaryotes only

- Which of the following cannot reproduce?
 - Amoeba*
 - Mule
 - Fungi
 - Planaria*

● Herbarium

- The label of a herbarium sheet does not carry information on
 - height of the plant
 - date of collection
 - name of collector
 - local names
- Which of the following taxonomical aid serves as a quick referral system in taxonomical studies?
 - Key
 - Botanical gardens
 - Herbaria
 - Museum
- Herbarium sheets have information about
 - Date and place of collection, English, local and botanical names, family, collector's name.
 - Time and place of collection, English local and botanical names, phylum, collector's name.
 - Date and time of collection, English, local and botanical names, class, collector's name.
 - Date and place of collection, English, local and botanical names, height of plant, collector's name.

● Botanical Gardens

- Kew, London is famous for
 - being the largest biological reserve
 - the zoological park
 - being the largest botanical garden
 - diverse flora and fauna

● Zoological Parks

- A place where wild animals are kept in specially created environment is known as
 - zoological park
 - botanical garden
 - herbarium
 - all of these

● Key

- Read the following statements and select the correct option.
Statement I: Key is analytical in nature.
Statement II: Each statement in the key is called as couplet.
 - Statement I is correct.
 - Statement II is correct.
 - Both Statements I and II are correct.
 - Both Statements I and II are incorrect.



15. A taxonomical aid which is based on contrasting character and used for identification of both plants and animals is
 (A) Keys (B) Manuals
 (C) Monographs (D) Flora

● Miscellaneous

16. Which one of the following is NOT a correct statement?
 (A) Key is a taxonomic aid for identification of specimens.
 (B) A museum has collection of photographs of plants and animals.
 (C) Botanical gardens have collection of living plants for reference.
 (D) Herbarium houses dried, pressed and preserved plant specimens.
17. If a student wants information on any one taxon, he should refer
 (A) herbarium (B) manuals
 (C) flora (D) monographs
18. Which of the following is useful in providing information for identification of names of species found in an area?
 (A) Catalogues (B) Manuals
 (C) Monographs (D) Flora
19. Which of the following statements about taxonomical aids is/are TRUE?
 i. Keys are used to identify plants and animals based on similarities and dissimilarities.
 ii. Flora contains the account of habitat and distribution of plants in a given area.
 iii. Flora provides an index to the plant species found in a particular area.
 iv. Monographs provide information for identification of species found in an area.
 (A) i and ii (B) i, ii and iii
 (C) i and iv (D) i only
20. Match the items given in Column I with those in Column II and select the correct option given below:

	Column I		Column II
i.	Herbarium	a.	It is a place having a collection of preserved plants and animals
ii.	Key	b.	A list that enumerates methodically all the species found in an area with brief description aiding identification

iii.	Museum	c.	It is a place where dried and pressed plant specimens mounted on sheets are kept
iv.	Catalogue	d.	A booklet containing a list of characters and their alternates which are helpful in identification of various taxa.

- (A) i – b, ii – d, iii – c, iv – a
 (B) i – c, ii – b, iii – a, iv – d
 (C) i – a, ii – d, iii – c, iv – b
 (D) i – c, ii – d, iii – a, iv – b

21. Which of the following is/are TRUE with reference to taxonomical aids?
 i. Separate taxonomic keys are required for each taxonomic category.
 ii. Herbarium is a store house of collected plants and animals.
 iii. A famous botanical garden Kew (Kolkata) has collection of living plants grown for identification purposes.
 iv. Keys are used for identification purpose.
 (A) i and ii (B) i and iv
 (C) i and iii (D) iii and iv



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