



- 44) Identify the number of processes that are basic to taxonomy and choose the correct option. Characterisation, identification, classification, nomenclature.
- a) One b) Two
c) Three d) Four
- 45) A pair of leaves arise at each node and lie opposite to each other as in
- a) Calotropis b) Alstonia
c) china rose d) mustard
- 46) Identify the plant that shows heterophylly due to environment.
- a) Cotton b) Coriander
c) Buttercup d) Larkspur
- 47) In an ecosystem, fishes and wolf are the examples of
- a) primary consumer b) primary carnivores
c) secondary carnivores d) herbivores
- 48) Classes comprising fishes, amphibians, reptiles, birds along with mammals constitute the
- a) Phylum b) Order
c) Family d) Division
- 49) 'Red tides' are caused by
- a) Dinoflagellates b) Euglenoids
c) Chrysophytes d) Protozoans
- 50) Identify the autosome linked dominant trait.
- a) Myotonic dystrophy b) Sickle-cell anaemia
c) Colour Blindness d) Haemophilia
- 51) Gemma cups are located on the thalli of
- a) Marchantia b) Funaria
c) Polytrichum d) Sphagnum
- 52) Increase in _____ beyond a point causes the breakdown of chlorophyll and decrease in photosynthesis.
- a) water b) incident light
c) CO₂ concentration d) temperature
- 53) For _____ ATP produced, _____ H⁺ passes through F₀ from the intermembrane space to the matrix.
- a) one, four b) two, six
c) half, five d) three, half
- 54) Mesosomes do not help in
- a) Cell wall formation b) DNA replication
c) Photosynthesis d) Respiration

- 55) Match List-I with List-II to find out the correct option

List I (Types of aestivation)		List II (Example)	
I.	Valvate	A.	Bean
II.	Twisted	B.	<i>Calotropis</i>
III.	Imbricate	C.	Lady's finger
IV.	Vexillary	D.	Gulmohur

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|----|---|----|-----|----|
| | I | II | III | IV |
| a) | C | D | A | B |
| b) | A | D | C | B |
| c) | B | C | D | A |
| d) | C | A | B | D |
- 56) The pea plants heterozygous for round seed shape and yellow seed colour were selfed and total 800 seeds are collected. What is the total number of seeds with both recessive traits?
- a) 200 b) 50
c) 100 d) 400
- 57) Apical dominance can be overcome by :
- a) GA b) Cytokinin
c) Ethylene d) Auxin
- 58) A disorder due to trisomy of an autosome is
- a) Colourblindness b) Sickle cell anaemia
c) Down's syndrome d) Turner's syndrome
- 59) How many of the given plants have marginal placentation?
Pea, Tomato, Marigold, Muliathi, Petunia, Indigofera, Lupin
- a) Two b) Four
c) Five d) Six
- 60) The basic unit of study in ecology is :
- a) Population b) Community
c) Ecosystem d) Individual organism

Answer Key for 28-04-2025 NEET MODEL QUESTION PAPER – BOTANY

Q	32	33	34	35	36	37
A	C	D	A	B	B	C
Q	38	39	40	41	42	43
A	C	C	B	A	D	B

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