



# BIOLOGY

## BOOKS - S DINESH & CO BIOLOGY (HINGLISH)

### FRUIT AND SEED DISPERSAL

#### Multiple Choice Question

1. Seed dispersal

- A. Avoids competition
- B. Produces mixed population
- C. Promotes cross population
- D. All the above

**Answer: D**



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2. Jaculator mechanism of seed dispersal is found in

A. Impatiens

B. Ruellia

C. Abrus

D. Ecballium

**Answer: B**



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**3.** Dispersal of seeds through explosive mechanism occurs in

A. Tecoma

B. Sonchus

C. Squirting Cucumber

D. Poppy

**Answer: C**



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4. The fruit which breaks into five valves on touching and results in explosive dispersal of seeds is

A. Ecballium

B. Balsam

C. Entada gigas

D. Ruellia

**Answer: B**



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5. In Abrus and Pea the fruit disperses its seeds through

A. Explosive mechanism

B. Wind

C. Water

D. Animals

**Answer: A**



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**6. Autochory occurs in**

A. Geranium

B. Lotus

C. Plumbago

D. Mango

**Answer: A**



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7. In censer mechanism, seed dispersal occurs through

A. Birds

B. Entangling of seeds to skin of roaming animals

C. Shaking by wind

D. Floating on water

**Answer: C**



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**8.** Censer mechanism of seed dispersal occurs in



A. Bombax

B. Alstonia

C. Moringa

D. Poppy

**Answer: D**



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9. Very small and light seeds which are dispersed by air are

A. Dust seeds

B. Winged seeds

C. Baloon seeds

D. Plumed seeds

**Answer: A**



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**10. Dust seeds occur in**

A. Ulmus

B. Orchis

C. Cinchona

D. Ailanthus

**Answer: B**



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**11.** Fruits are flattened to be easily dispersed by air in

A. Taraxacum

B. Nymphaea

C. Pupalia

D. Dalbergia

**Answer: D**



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**12.** Propellar mechanism of anemochory occurs  
in

A. Tecoma

B. Hiptage

C. Ailanthus

D. Shorea

**Answer: C**



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**13.** Winged fruits occur in

A. Lagerstroemia

B. Moringa

C. Colutea

D. Shorea

**Answer: D**



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**14. Winged Seeds occur in**

A. Moringa

B. Ulmus

C. Shorea

D. Hiptage

**Answer: A**



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**15.** In Hiptage, anemochory occurs because of

A. Winged seeds

B. Baloon fruits

C. Winged fruits

D. Plumed seeds

**Answer: C**



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**16.** In anemochorous Tecoma, the modification present is

- A. Dust seeds
- B. Winged seeds
- C. Winged fruits
- D. Plumed seeds



**Answer: B**



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**17.** A fleshy fruit dispersed by inflated persistent calyx is

A. Bombax

B. Albizzia

C. Physalis

D. Naravelia

**Answer: C**



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**18.** Inflated fruits which are dispersed by air occur in

- A. Aristolochia
- B. Heritiera
- C. Nymphaea
- D. Cardiospermum

**Answer: D**



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**19.** Anemochorous seed bearing hair at two ends is

A. Alstonia

B. Calotropis

C. Bombax

D. Cotton

**Answer: A**



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**20.** Hygroscopic hair for fruit dispersal to moist areas occurs in

A. *Sonchus*

B. Cotton

C. *Mucana gigantea*

D. *Entada gigas*

**Answer: A**



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**21. Plumed seeds occur in**

A. Naravelia

B. Taraxacum

C. Calotropis

D. Colutea

**Answer: C**



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22. Parachute mechanism of fruit dispersal is found in

A. Bombax

B. Taraxacum

C. Holoptelia

D. Polygonum

**Answer: B**



23. Coconut fruit is dispersed by

A. Air

B. Animals

C. Autochory

D. Water

**Answer: D**



24. In Coconut, hydrochory occurs due to presence of

- A. Papery epicarp
- B. Fibrous mesocarp
- C. Stony endocarp
- D. Liquid endosperm

**Answer: B**



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25. Water dispersal of Coconut is not efficient because

A. It is restricted d

B. Coconut fruit decays within a couple of days

C. The fruit cannot remain afloat for than one day

D. The statement is incorrect

**Answer: D**



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26. Sticky zoochorous fruits occur in

A. Cinchona

B. Polygonum

C. Plumbago

D. Mulberry

**Answer: C**



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27. In Boerhaavia, fruit dispersal occurs due to presence of

A. Barbs

B. Hooks

C. Sticky glands

D. Hygroscopic hair

**Answer: C**



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28. Hooks help in fruit dispersal of

A. Martynia

B. Heritiera

C. Viscum

D. Colutea

**Answer: A**



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29. Which of the following is dispersed by animals due to presence of barbs and hooks

A. Pupalia

B. Boerhaavia

C. Ecballium

D. Cordia

**Answer: A**



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30. Spear Grass (*Aristida*) is dispersed by

A. Air

B. Animals

C. Water

D. Explosive mechanism

**Answer: B**



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31. Forced zoochory occurs in

A. Mulberry

B. Viscum

C. Xanthium

D. Cordia

**Answer: C**



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**32.** Tribulus and Medicago are dispersed by animals because they possess

A. Sticky glands

B. Sweet pulpy fruits

C. Bright colour

D. Hooks

**Answer: D**



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**33.** Seeds dispersed by animals and passing through their alimentary canal are of plant



A. Cordia

B. Viscum

C. Loranthus

D. Peepal

**Answer: D**



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**34.** Fruits having sticky pulp for zoochorous dispersal are of

A. Guava

B. Banyan

C. Cordia

D. Cleome viscosa

**Answer: C**



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**35.** A tuft of hair present at one or both ends of the seeds (for dispersal) is called

A. Propellar

B. Coma

C. Pappus

D. Wing

**Answer: B**



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**36. Which one bears coma for anemochory**

A. Cinchona

B. Calotropis

C. Alstonia

D. Both B and C

**Answer: D**



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**37.** Poppus for parachute mechanism of anemochory develops from

A. Calyx

B. Fruit wall

C. Seed wall

D. Style

**Answer: A**



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**38.** Seeds of *Ruellia tuberosa* are disseminated  
by

A. Censer mechanism

B. Parachute mechanism

C. Jaculator mechanism

D. Explosive mechanism

**Answer: C**



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**39.** The fruits of Tribulus are dispersed by

A. Water

B. Wind

C. Animals

D. Explosive mechanism

**Answer: C**



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**40.** Seeds of Cinchona are dispersed by

A. Wind because they are very small and  
light

B. Wind because they are winged

C. Water because they possess aerenchyma

D. Animals as they have barbs

**Answer: B**



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**41.** Hooks and barbs are helpful in dispersed of

A. *Viscum*

B. *Boerhaavia*

C. *Plumbago*



D. Bidens

**Answer: D**



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**42.** Wide distribution of Coconut in coastal areas of different countries is due to

- A. Its fruits can float on water
- B. It is economically very important
- C. It requires saline soil

D. It yields oil

**Answer: A**



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**43.** Fruits of Xanthium is zoochorous as it has

A. Sticky surface

B. Hooks

C. Edible pulp

D. Sticky pulp

**Answer: B**



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**44.** Cotton and Madar (Calotropis) seeds are dispersed by air they have

A. Pappus

B. Wings

C. Hair

D. Flattened surface

**Answer: C**



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**45. Anemochorous seeds and fruits are**

A. Round in shape

B. Flattened

C. Light in weight

D. Without any bright colour

**Answer: C**



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**46.** Orchid seeds are usually

- A. Small, light and dry
- B. Small and sticky
- C. Large and sticky
- D. Large and heavy

**Answer: A**



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47. Clematis and Naravelia are dispersed by air with the help of

A. Persistent inflated calyx

B. Persistent hairy styles

C. Hair

D. Wings

**Answer: B**



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**48.** Orchid seeds are usually

A. Large and heavy

B. Small and hairy

C. Small and light

D. Large and sticky

**Answer: C**



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**49.** Censer mechanism of seed dispersal is found in

A. Papaveraceae

B. Liliaceae

C. Leguminosae

D. Rosaceae

**Answer: A**



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50. Parachute type of mechanism of seed dispersal is found in

A. Pea/Leguminesae

B. Mustard/Cruciferae

C. Cotton/Malvaceae

D. Taraxacum/Compositae

**Answer: D**



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51. Dispersal of seed in Opium

Poppy/Argemone occurs by

- A. Explosive mechanism
- B. Parachute mechanism
- C. Censer mechanism
- D. Jaculator mechanism

**Answer: C**



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52. Which of the following traits helps in wind dispersal

- A. Barbs and hooks
- B. Hair and wings
- C. Sticky glands
- D. Round and compact seeds

**Answer: B**



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53. Which of the following is dispersed by wind

A. Calotropis

B. Coconut

C. Nelumbium

D. Nymphaea

**Answer: A**



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54. Dispersal of Coconut fruit occurs by

A. Wind

B. Explosive mechanism

C. Animals

D. Water

**Answer: D**



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55. Persistent calyx produces a dry bladder around an edible berry in

A. Capsicum

B. Solanum

C. Nicotiana

D. Physalis

**Answer: D**



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56. Seeds are beset with tiger's claw in

A. Martynia

B. Xanthium

C. Spear Grass

D. Puncture Vine

**Answer: A**



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57. Parachute type dispersal occurs in

A. Tomato

B. Mustard

C. Pea

D. Cotton

**Answer: D**



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**58.** Winged seeds are

A. Rough and sticky



B. Smooth and sticky

C. Dry and spinning

D. None of the above

**Answer: C**



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**59.** Pappus helps in seed dispersal in

A. Asteraceae

B. Brassicaceae

C. Malvaceae

D. Solanaceae

**Answer: A**



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**60.** In which of the following fruits dispersal occurs by grazing animals ?

A. Xanthium

B. Mango

C. Coconut

D. All the above

**Answer: A**



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**61.** Calyx is modified into wings in

A. Shorea

B. Hopea

C. Dioscorea

D. Acer

**Answer: A**



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**62.** In which plant only two curved hooks are formed on seeds

A. Xanthium

B. Martynia

C. Tribulus

D. Ricinus

**Answer: B**



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**63.** Birds disseminate seeds by

A. Eating fruit and passing the seeds

unharmd through excreta at places

B. Their feathers

C. Carrying seeds in their beaks

D. Eating fruits and digesting fruit contents in their alimentary canal.

**Answer: A**



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**64.** Given below are assertion and reason.

Point out if

Assertion : Coconut tree is distributed in coastal areas of a large part of world.

Reason : Coconut fruit can float and get

dispersed over thousands of kilometers before losing viability.

A. Both are true with reason being correct explanation

B. Both true but reason is not correct explanation

C. Assertion true but reason is wrong

D. Both are wrong

**Answer: A**



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65. Pappus occurs in compositae for

A. Air pollination

B. Air dispersal

C. Insect pollination

D. Animal dispersal

**Answer: B**



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**66.** Bright coloured fleshy fruits are dispersed by

A. Air

B. Insects

C. Water

D. Birds

**Answer: D**



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67. In this, seeds do not have their

A. Calotropis

B. Drumstick

C. Alstonia

D. Cotton

**Answer: B**



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**68.** This does not show myrmecophily

A. Onion

B. Guava

C. Mango

D. Litchi

**Answer: A**



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**69.** This uses mimicry as a defence mechanism

A. Date Palm

B. Caladium

C. Opuntia

D. Jatropha

**Answer: B**



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**Check Your Grasp**

1. In Cocklebur/Xanthium, dispersal of seeds occurs through the agency of

A. Explosive mechanism

B. Anemochory

C. Hydrochory

D. Zoochory

**Answer: D**



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2. A tumble weed is

A. Sonchus

B. Carthamus

C. Calotropis

D. Orchis

**Answer: B**



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3. In Lagerstroemia, dispersal occurs through

A. Hairy styles

B. Winged fruits

C. Winged seeds

D. Parachute mechanism

**Answer: C**



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4. Peepal and Ficus often grow in cracks of walls/drain pipes because their seeds are dispersed by

A. Birds

B. Air

C. Rain

D. Ants

**Answer: A**



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5. The fruits of Plumbago are dispersed by animals because they have

A. Edible pulp

B. Spiny surface

C. Sticky surface

D. Falling on muddy banks

**Answer: C**



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6. Fruits of *Heritiena* is dispersed by water as it has

- A. Spongy thalamus
- B. Air cavity
- C. Fibrous mesocarp
- D. Spongy pericarp

**Answer: B**



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7. Myrmecochory is dispersal with the help of

A. Birds

B. Snails

C. Ants

D. Squirrels

**Answer: C**



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8. Autochory is accompanied by a loud noise in

A. Entada

B. Abrus

C. Geranium

D. Ruellia

**Answer: A**



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9. In Aristolochia, seed dispersal takes place through

- A. Parachute mechanism
- B. Censor mechanism
- C. Forced zoochory
- D. Compensated zoochory

**Answer: B**



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10. A balloon fruit is

A. Hopea

B. Dipterocarpus

C. Colutea

D. Alstonia

**Answer: C**



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