

1. Seed lot certificate colour is–  
(A) Orange (B) Green  
(C) Purple **(D) Orange or Green**
2. Hot water treatment is used to break dormancy in–  
**(A) Lentil** (B) Cherry  
(C) Cotton (D) None
3. Mak – 12 is a variety of–  
(A) Maize (B) Medicago  
**(C) Bt Cotton** (D) Tomato
4. Difference between seed and grain is–  
(A) Seed processing **(B) Genetic purity**  
(C) Seed quality (D) Cost
5. Fanning mill is–  
**(A) Air screen cleaner** (B) Hammermill  
(C) Blower (D) Rice mill
6. National Nematode collection of India is located at–  
**(A) New Delhi** (B) Dharwad  
(C) Anand (D) Bangalore
7. Size of Saltation is–  
**(A) 0.1 – 0.5 mm** (B) < 0.1 mm  
(C) 0.55 – 1 mm (D) > 0.1 mm
8. Seed coat peroxidase test is used for–  
(A) Sorghum (B) Wheat  
**(C) Soybean** (D) Groundnut
9. Pure seed fraction in *Abelmoschus esculentus*: “is–  
(A) 98 (B) 95  
**(C) 99** (D) 96
10. \_\_\_\_ Sugar found in germinating seed in large amount–  
**(A) Maltose** (B) Sucrose  
(C) Cellobiase (D) Lactose

11. The blotter method of seed health testing detects primarily–  
(A) Virus **(B) Fungi**  
(C) Bacteria (D) Nematodes
12. A sound seed certification programme requires–  
**(A) Direct participation of breeder**  
(B) Use of sophisticated equipment  
(C) Classification of seed  
(D) Support of law
13. The Rudimentary root of the seed or seedling that forms the primary root of the young plant is known as–  
(A) Rachis **(B) Radicle**  
(C) Rachilla (D) Raceme
14. Mode of pollination in maize is–  
(A) Self-pollination (B) Vegetative propagation  
**(C) Cross-pollination** (D) None
15. T2 test colour of living tissues of seed changed to–  
**(A) Red** (B) Blue  
(C) Yellow (D) Green
16. Maximum moisture content for safe storage in wheat seed is–  
**(A) 12** (B) 15  
(C) 7 (D) None
17. The structure and function of nitrogenase can be studied by–  
(A) NMR (B) EPR  
(C) Massbauer spectroscopy **(D) All**
18. In India, normally how many generation system seeds are produced?  
(A) 1 (B) 2  
**(C) 3** (D) 4
19. Dicot endospermic seed is–  
(A) Castor (B) Fenugreek  
**(C) Both (A) and (B)** (D) Bean
20. When the pathogen is loosely mixed with seed in the form of sclerotia, galls etc are called–  
(A) Infection (B) Infestation  
(C) Contamination **(D) Concomitant contamination**

21. Slow drying seed is—  
(A) Cereals (B) Rapeseed and mustard  
(C) Grass **(D) Pulses**
22. Which is total root parasite?  
(A) Orobanchae (B) Conophalis  
(C) Epitagus **(D) All**
23. +ve photoblastic seeds are—  
(A) Nigella (B) Silene  
(C) Nemophills **(D) Arraranutum**
24. Germination is inhibited by—  
(A) Red light (B) Blue light  
(C) **IR light** (D) UV light
25. Tetrazolium test determine the level of activities of enzyme—  
(A) ATPase (B) Dehydrogenase  
(C) Carboxylase (D) Isomerase
26. Murate of potash is—  
(A)  $K_2SO_4$  (B) KCl  
(C)  $KN_3$  (D)  $K_2HPO_4$
27. Production of seedless grapes require—  
(A) **Gibberlins** (B) NAA  
(C) Ethylene (D) IAA
28. Inflorescence of cauliflower is called—  
(A) Catkin (B) Head  
(C) **Curd** (D) None
29. Pusa snow ball is variety of—  
(A) Sapotqa **(B) Cauliflower**  
(C) Ber (D) Cabbage
30. Development of embryo without fertilization is—  
(A) **Apomixis** (B) Amghimixis  
(B) Parheno carpy (D) None

# **COURSE TITLE: PRINCIPLES OF SEED TECHNOLOGY**

**COURSE: 243**

## **Seed Science One Liner**

**Q1. Seed is- Fertilized and developed ovule**

**Q2. The smallest and the lightest seed is that of- Orchis**

**Q3. The largest and heaviest seed is that of- Lodoicea**

**Q4. The seed bearing plants belong to the group of- Phanerogam**

**Q5. Outer seed coat is- Testa**

**Q6. Seed bud is- Ovule**

**Q7. Tegmen is the name of- Inner seed coat**

**Q8. Hilum of seed is- Scar of funiculus**

**Q9. Tigellum is- Embryonic axis**

**Q10. Seed leaf is- Cotyledon**

**Q11. Which one is the reproductive unit having an embryo, reserve food and protective covering- Seed**

**Q12. In exalbuminous seeds, there is- Consumption of endosperm during development of seed**

**Q13. In exalbuminous seed the food is generally stored in- Cotyledons**

**Q14. The seed in which reserve food is present in the perisperm- Nymphaea**

**Q15. An endospermic seed is- Castor**

**Q16. Endosperm of Areca/Betel Nut is- Ruminant**

- Q17. Integumentary outgrowth present over the micropyle of Castor is- **Caruncle**
- Q18. Hair of cotton are- **Outgrowth of testa**
- Q19. Which is an albuminous seed- **Castor, Maize**
- Q20. The remnants of nucellus present in the seed constitute- **Perisperm**
- Q21. Cotyledon is absent in- **Cuscuta**
- Q22. The plant in which hypocotyls stores food is- **Bertholettia**
- Q23. A dicot albuminous seed is- **Castor**
- Q24. A dicot exalbuminous seed is- **Pea**
- Q25. In Maize, a tubular sheath covers the plumule. It is- **Papery**
- Q26. In Maize, a tubular sheath covers the plumule. It is- **Coleoptiles**
- Q27. Aleurone is- **Layer present on the outside of endosperm and having protein grains**
- Q28. Seed of Black Pepper is- **Perispermic**
- Q29. Coleorhizae is- **Covering of radicle**
- Q30. Aleurone layer takes part in- **Enzyme synthesis**
- Q31. Which one is a monocotyledonous seed- **Triticum aestivum**
- Q32. A spongy white bilobed structures present at the narrow tip of Castor seed is- **Caruncle**
- Q33. The function of caruncle is to- **Absorb water and its inward transfer through micropyle**
- Q34. Seeds are required for fruit growth- **Early phase**
- Q35. A seed which does not possess micropyle and hilum is- **Maize**

- Q36. In Ricinus, the outer white papery covering of endosperm is- **Perisperm/tegmen**
- Q37. Cotyledonary node of embryo lies between- **Epicotyls and hypocotyls**
- Q38. Seed having the longest viability is- **Nelumbo**
- Q39. Viability of the seed is tested with- **Triphenyl tetrazolium chloride**
- Q40. A seed cut into two halves and immersed in 0.1% triphenyl tetrazolium chloride solution. Its viability is indicated by development of colouration- **Pink**
- Q41. Freshly liberated seeds of Erianthus hiemalis do not germinate due to- **Immaturity of embryo**
- Q42. Freshly shed seeds can germinate immediately under favourable conditions in- **Pisum sativum, Zea mays**
- Q43. Common cause of seed and bud dormancy is presence of- **Absciscic acid**
- Q44. Seeds of tomato do not germinate in its pulp due to- **Presence of ferulic acid**
- Q45. Seed dormancy may be due to- **Hard impermeable seed coat**
- Q46. Wheat germ is- **Embryo**
- Q47. The hormone which can break seed dormancy is- **GA**
- Q48. Mechanical injuring of seed coat to break dormancy is called- **Scarification**
- Q49. Thiourea is used in overcoming seed dormancy by- **Counteracting inhibitors**
- Q50. The most important external factor for seed germination is- **Water**
- Q51. The first process which occurs when the seed is placed in the soil is- **Imbibitions**

**Q52. Seeds placed deep in the soil do not germinate because they are-  
Unable to get sufficient oxygen**

**Q53. During germination, micropyle of seed takes part in- Absorption of  
water**

**Q54. which are the external conditions required for seed germination-  
Oxygen, moisture and suitable temperature**

**Q55. A seed which does not require oxygen for germination is- Rice, Typha**

**Q56. A seed which is unable to germinate in the presence of light is- Onion**

**Q57. The seed in which dormancy can be broken by red light is- Lettuce**

**Q58. Part of the embryo which comes out first during seed germination is-  
Radicle**

**Q59. Which is not essential for seed germination in most cases- Light**

**Q60. Part of the seed which forms the shoot at the time of germination is-  
Plumule**

**Q61. Germination is hypogeal in- Pea**

**Q62. Vivipary is seed germination- While contained inside the fruit**

**Q63. Cotyledons constitute the first pair of leaves in- Castor**

**Q64. Epigeal germination occurs in- Castor**

**Q65. Vivipary occurs in- Mangrove plants**

**COURSE TITLE: PRINCIPLES OF SEED TECHNOLOGY**

**COURSE: 243**

**1. Presently ICAR has \_\_\_\_\_ breeder seed production units:**

- A.45
- B.54**
- C.92
- D.107

**2. International Seed Testing Association was organized on:**

- A.10-Jul-24**
- B.12-Jul-25
- C.12-Feb-42
- D.10-Feb-24

**3. Certification is not required for:**

- A.Nucleus seed
- B.Breeder seed**
- C.Foundation seed
- D.Certified seed

**4. Physical purity of 95% is permissible for the foundation and certified seed of:**

- A.Soya bean
- B.Groundnut
- C.Spinach
- D.Carrot**

**5. Contamination permitted in maize is:**

- A.1%**
- B.2%
- C.0.10%
- D.0.20%

**6. Seed moisture varies from crop to crop in ranges from:**

- A.15-20%
- B.30-40%
- C.1-2%
- D.9-12%**

**7. The recommended ratio of male rows to female rows is in hybrid bajra production:**

- A.2 to 4**
- B.1 to 2
- C.4 to 8
- D.3 to 6

**8. Argemone mexicana is an objectional weed in:**

- A.Wheat
- B.Barley
- C.Rapeseed/Mustard**
- D.Chick pea



**9. Seed certification requires:**

- A. An improved variety
- B. Genetic purity
- C. Physical purity

**D. All of the above**

**10. Improved seed includes:**

- A. Nucleus seed
- B. Breeder seed
- C. Foundation seed

**D. All of the above**

**11. International Crop Improvement Association (ICIA) in \_\_\_\_\_ classified seed into different categories:**

A. 1964

**B. 1946**

C. 1963

D. 1972

**12. Initial seed of an improved variety is called:**

**A. Nucleus seed**

B. Breeder seed

C. Foundation seed

D. Certified seed

**13. Cotyledons in gymnosperms are called:**

A. Embryo

B. Integuments

**C. Mega-gametophyte**

D. Endosperm

**14. Production of breeder seed in cotton requires an isolation distance of:**

A. 20 metres

B. 30 metres

**C. 50 metres**

D. 75 metres

**15. Seed coat is derived from:**

**A. Testa**

B. Embryo

C. Endosperm

D. Nucellus

**16. Headquarters of the Union for the Protection of New Plant varieties is in:**

A. Thailand

B. USA

C. Denmark

**D. Switzerland**

**17. The first private seed came into existence in the year:**

A. 1918

B. 1987

C. 1959

**D. 1912**

**18. Cotyledons in monocots are called:**

**A.Endosperm**

B.Mega-gametophyte

C.Embryo

D.Integuments

**19. The hybrids developed by Government Agencies or Government Institutions and Agricultural Universities are called:**

A.Private hybrids

B.Institutional hybrids

**C.Public hybrids**

D.Government hybrids

**20. Breeder seed production units of ICAR producing \_\_\_\_\_ tonnes of breeder seed:**

A.7300

B.37

**C.3700**

D.73

**21. In wheat, production of foundation seed needs an isolation distance of:**

**A.Three metres**

B.Five metres

C.Ten metres

D.Twenty metres

**22. Cuscuta is an objectional weed of:**

A.Cowpea

B.Berseem

C.Sorghum

**D.Lucerne**

**23. Progeny of a nucleus seed is referred to as:**

A.Certified seed

B.Foundation seed

C.Registered seed

**D.Breeder seed**

**24. In flowering plants a second seed coat is known as:**

A.Integument

B.Aleurone layer

**C.Tegamen**

D.Inner ventral scale

**25. Freedom from inert matter and defective seeds:**

A.Genetic purity

**B.Physical purity**

C.Defective purity

D.Normal purity

**26. Pure Live Seed (PLS) is related to:**

A.Physical purity

B.Genetic purity

**C.Germination percentage**

D.Contamination

**27. Breeder seed is \_\_\_\_\_ % pure:**

A.99

**B.100**

C.70

D.99.99

**28. In Bhindi, production of foundation seed needs an isolation distance of:**

A.100 metres

B.50 metres

**C.200 metres**

D.3 metres

**29. In sunflower, production of foundation seed requires an isolation distance of (metres):**

**A.400**

B.800

C.200

D.100

**30. Breeder seed is the progeny of:**

A.Foundation seed

B.Registered seed

**C.Nucleus seed**

D.Certified seed

**31. Plant Breeders' Rights are operating in:**

A.Germany

B.Denmark

C.Netherlands

**D.All of the above**

**32.The first symbolic Importance of seed started after the report of Famine Commission in:**

**A.1881**

B.1890

C.1891

D.1892

**33. Seed meant for generation distribution to the farmers for commercial crop production refers to:**

A.Foundation seed

B.Breeder seed

**C.Certified seed**

D.Nucleus seed

**34. Standards of germination for seed certification in chillies:**

A.70%

B.90%

C.80%

**D.60%**

**35. Coloured varieties of rice have \_\_\_\_\_ aleurone layer:**

A.Thinner

**B.Thicker**

- C.Coarse
- D.Smooth

**36. Seed is a:**

- A.Immature embryo
- B.Mature embryo**
- C.Developed embryo
- D.Undeveloped embryo

**37. TDC came into existence in:**

- A.1996
- B.1962
- C.1926

**D.1969**

**38. First private seed company was:**

- A.Monsanto
- B.Namdhari
- C.Sutton & Sons**
- D.Takii

**39. Physical purity, is permissible (98%) in the crop:**

- A.Groundnut
- B.Rice**
- C.Soya bean
- D.Spinach

**40. The coarse rice generally has a \_\_\_\_\_ aleurone layer:**

- A.Larger**
- B.Smaller
- C.Bigger
- D.Smooth

## GPB-243 MCQ

1. Seed drying is very important to maintain its–

- (A) Viability and vigour**
- (B) Protein content
- (C) Oil content
- (D) Chemical composition

2. The equipment used to apply chemicals that involves suspension and wettable powder treatment material in water is

- (A) Slury treaters**
- (B) Direct treaters
- (C) Panogen treaters
- (D) Mist-o-matic treaters

3. Average diameter of bulbet of onion (seed standard) shall not be less than

- (A) 2.5 cm
- (B) 1 cm
- (C) 3 cm
- (D) 2 cm**

4. Indian cotton is–

- (A) *G. herbacei*
- (B) *G. arboreum***
- (C) *G. hirsutum*
- (D) *G. barbadense*

5. For seed samples kept in an incubator for germination test, light is–

- (A) Always essential
- (B) Never essential
- (C) Not harmful**
- (D) Harmful

6. Seedlessness in fruits is called as–

- (A). Parthenogenesis
- (B) Parthenocarpy**
- (C) Apomixis
- (D) None

7. Centre of origin of rice is–

- (A) SW Asia

**(B) SE Asia**

(C) South America

(D) North America

8. The GOT is done for verification of–

(A) Physical purity

**(B) Genetic purity**

(C) Germination %

(D) None

9. Possible reasons for seed dormancy is–

(A) Presence of pathogens

(B) Cracking of hulls

**(C) Immature embryo**

(D) Green distortion

10. ISTA was established in the year–

(A) 1871

(B) 1876

(C) 1921

**(D) 1924**

11. While sampling from a seed lot of 50 bags, the minimum number of primary sample should be–

(A) 5

**(B) 10**

(C) 15

(D) 20

12. Certified seed of cotton should have minimum germination of–

(A) 50%

**(B) 60%**

(C) 70%

(D) 80%

13. Critical stages of irrigation in cowpea.....

**(A) Flowering & pod formation**

(B) Flowering

(C) Seedling

(D) None of these

14. Family of soybean :

**(A) Leguminosae**

(B) Apilionceaceae

- (C) Compositae
- (D) Linaceae

15. Seed certification requires:

- (A). An improved variety
- (B). Genetic purity
- (C). Physical purity
- (D). All of the above**

16. Breeder seed is the progeny of:

- (A). Foundation seed
- (B). Registered seed
- (C). Nucleus seed**
- (D). Certified seed

17. Headquarters of the Union for the Protection of New Plant varieties is in:

- (A). Thailand
- (B). USA
- (C). Denmark
- (D). Switzerland**

18. The recommended ratio of male rows to female rows is in hybrid bajra production

- (A). 2 to 4**
- (B). 1 to 2
- (C). 4 to 8
- (D). 3 to 6

19. Occurrence of more than one embryo in seed is known as—

- (A). Polysomy
- (B). Polyembryony**
- (C). Apogamy
- (D). None

20. First hybrid of pigeonpea in the world is—

- (A). ICPH - 8**
- (B). ICPH - 10
- (C). PUSA - Arhar
- (D). PUSA HR – I

21. The moisture content for safe storage of cereals is—

- (A). 12-14%**
- (B). 14-16%
- (C). 16-18%
- (D). 18-20%

22. The constituent of wheat affecting its baking quality is—

- (A). Glutin**
- (B). Pectin
- (C). Vitamin B1
- (D). Moisture

23. The Rudimentary root of the seed or seedling that forms the primary root of the young plant is known as—

- (A). Rachis
- (B). Radicle**
- (C). Rachilla
- (D). Raceme

24. Mode of pollination in maize is—

- (A). Self-pollination
- (B). Vegetative propagation
- (C). Cross-pollination**
- (D). None

25. T2 test colour of living tissues of seed changed to—

- (A). Red**
- (B). Blue
- (C). Yellow
- (D). Green

26. Maximum moisture content for safe storage in wheat seed is—

- (A). 12**
- (B). 15
- (C). 7
- (D). None

27. In India, normally how many generation system seed are produced?

- (A). 1
- (B). 2
- (C). 3**
- (D). 4

28. Slow drying seed is—

- (A). Cereals
- (B). Rapeseed and mustard
- (C). Grass
- (D). Pulses**

29. Germination is inhibited by—

- (A). Red light
- (B). Blue light
- (C). IR light**



(D). UV light

30. Certification is not required for:

- (A).Nucleus seed
- (B).Breeder seed**
- (C).Foundation seed
- (D).Certified seed

31. Contamination permitted in maize is:

- (A).1%**
- (B).2%
- (C).0.10%
- (D).0.20%

32. Production of breeder seed in cotton requires an isolation distance of:

- (A).20 metres
- (B).30 metres
- (C).50 metres**
- (D).75 metres

33. In wheat, production of foundation seed needs an isolation distance of:

- (A).Three metres**
- (B).Five metres
- (C).Ten metres
- (D).Twenty metres

34. Freedom from inert matter and defective seeds:

- (A).Genetic purity
- (B).Physical purity**
- (C).Defective purity
- (D).Normal purity

35. Breeder seed is \_\_\_\_\_ % pure:

- A.99
- B.100**
- C.70
- D.99.99

36. In Bhindi, production of foundation seed needs an isolation distance of:

- (A).100 metres
- (B).50 metres
- (C).200 metres**
- (D).3 metres

37. Seed is.....

- (A).Developed ovule

**(B).Fertilized and developed ovule**

(C).Developed ovary

(D).Fertilized and developed ovary

38. Outer seed coat is.....

**(A).Testa**

(B).Tegmen

(C)Hilum

(D)Funiculus

39. Which one is a monocotyledonous seed

(A).*Pisum sativum*

(B).*Cicer arietinum*

(C).*Dolichos lablab*

**(D)*Triticum aestivum***

40. Seed dormancy may be due to

(A).Permeable seed coat

**(B).Hard impermeable seed coat**

(C).Thin seed coat

(D). Lack of reserve food

41. The hormone which can break seed dormancy is

(A).Coumarin

(B).Ferulic acid

(C).ABA

**(D).GA**

42. Mechanical injuring of seed coat to break dormancy is called

**(A).Scarification**

(B).Stratification

(C).Impaction

(D).Compaction

43. Germination is hypogeal in

(A).Cotton

**(B).Pea**

(C).Castor

(D).Bean

44. Vivipary is seed germination

(A).In strong light

(B).Without involving cotyledons

(C).With cotyledons coming above ground

**(D).While contained inside the fruit**

45. Hot water treatment is used to break dormancy in  
**(A).Lentil**  
(B).Cherry  
(C).Cotton  
(D).None
46. Difference between seed and grain is...  
(A).Seed processing  
**(B).Genetic purity**  
(C).Seed quality  
(D).Cost
47. The separation of the field of a variety from that of another variety of the same crop to avoid contamination.  
(A).Genetic purity  
**(B).Isolation distance**  
(C).Seed dormancy  
(D).Roguing
48. Seed remain viable for long time at low temperature and low moisture content called as ...  
(A).Recalcitrant seed  
(B).Foundation seed  
**(C).Orthodox seed**  
(D).Breeder seed
49. Father of seed technology is...  
**(A).Nobbe**  
(B).Staphen Hales  
(C).Charles Darwin  
(D).Shelford
50. Genetic purity in the field is maintained by...  
(A).Seed testing  
(B).Field inspection  
**(C).Roguing**  
(D).Seed sampling
51. If cotyledons are brought above the soil, the germination is  
(A). hypogeal  
**(B). epigeal**  
(C). vivipary  
(D). none of these
52. The reserve food material in castor seed mostly occurs in the form of

- (A). carbohydrates
- (B). proteins
- (C). oil**
- (D). sugar

53. Which of the commercial classes of seed is sold to farmers:

- (A). producer**
- (B). breeder
- (C). registered
- (D). foundation

54. Seed test that provides information on weed seed and inert material is called:

- (A). purity test**
- (B). clean seed test
- (C). viability test
- (D). wholesomeness test

55. In cryogenic storage, seeds are stored at:

- (A).  $-65^{\circ}\text{C}$
- (B).  $-100^{\circ}\text{C}$
- (C).  $-192^{\circ}\text{C}$**
- (D).  $75^{\circ}\text{C}$

56. In Bhindi, production of foundation seed needs an isolation distance of:

- (A). 100 metres
- (B). 50 metres
- (C). 200 metres**
- (D). 3 metres

57. In sunflower, production of foundation seed requires an isolation distance of (metres):

- (A). 400 metres**
- (B). 800 metres
- (C). 200 metres
- (D). 100metres

58. For foundation seed production colour tag is used in the fields is:

- (A). White**
- (B). Buff
- (C). Blue
- (D). None of above

59. Foundation seed is obtained from:

- (A).Nucleus seed
- (B).Breeder seed**
- (C).Foundation seed
- (D).Certified seed

59. Blue colour tag is issued for

- (A).Nucleus seed
- (B).Breeder seed
- (C).Foundation seed
- (D).Certified seed**

60. Seed rate of sorghum is \_\_\_\_\_ kg/ha.

- (A).12-15**
- (B).10-12
- (C).8-10
- (D).15-20

61. Viability of the seed is tested with

- (A). Triphenyl tetrazolium chloride**
- (B). Indole acetic acid
- (C). Mercuric chloride
- (D). 2, 4-D

62. Common cause of seed and bud dormancy is presence of

- (A). Ethylene
- (B). Cytokinins
- (C). Abscissic acid**
- (D). Both B and C

63. Seeds of tomato do not germinate in its pulp due to

- (A). Presence of ferulic acid**
- (B). Presence of excess salt
- (C). Absence of oxygen
- (D). Presence of ABA

64. Thiourea is used in overcoming seed dormancy by

- (A). Chemical scarification
- (B). Counteracting inhibitors**
- (C). Inducing cell division
- (D). Develop osmotic pressure

65. The most important external factor for seed germination is

- (A). Light
- (B). Soil
- (C). Oxygen
- (D). Water**

66. A seed which is unable to germinate in the presence of light is

- (A). Viscum
- (B). Onion**
- (C). Bean
- (D). Maize

67. Germination is hypogeal in

- (A). Cotton
- (B). Pea**
- (C). Castor
- (D). Bean

68. Epigeal germination occurs in

- (A). Gram
- (B). Pea
- (C). Castor**
- (D). Maize

69. The equipment used for separating, cleaning and grading small seeds from given sample is \_\_\_\_\_?

- (A). Seed blower
- (B). Seed sorter**
- (C). Seed divider
- (D). A and B

70. Botanical name of American cotton is \_\_\_\_\_?

- (A). G. hirsutum**
- (B). G. arborium
- (C). G. barbadense
- (D). Non of these