

# National Testing Agency

**Question Paper Name:** Economic Botany Plant Resource utilization 10th November 2019 Shift 2  
**Subject Name:** Economic Botany Plant Resource utilization  
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**Total Marks:** 100  
**Display Marks:** Yes

## Economic Botany Plant Resource utilization

**Group Number :** 1  
**Group Id :** 709597175  
**Group Maximum Duration :** 0  
**Group Minimum Duration :** 120  
**Revisit allowed for view? :** No  
**Revisit allowed for edit? :** No  
**Break time:** 0  
**Group Marks:** 100

## Economic Botany Plant Resource utilization

**Section Id :** 709597184  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional:** Mandatory  
**Number of Questions:** 100  
**Number of Questions to be attempted:** 100  
**Section Marks:** 100  
**Display Number Panel:** Yes  
**Group All Questions:** No

**Sub-Section Number:** 1  
**Sub-Section Id:** 709597278  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 70959717180 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The oldest known records of hemp farming go back

- A. 5000 years
- B. 3000 years
- C. 2500 years
- D. 4000 years

**Question Number : 2 Question Id : 70959717181 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Afghanistan has recently emerged as a major producer of

- A. Cannabis oil
- B. Cannabis resin
- C. Cannabis herb
- D. All of these

Question Number : 3 Question Id : 70959717182 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The hemp seed contains

- A. 12% protein
- B. 20% protein
- C. 35% protein
- D. None

Question Number : 4 Question Id : 70959717183 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The primary active ingredient of cannabis delta-9-tetrahydrocannabinol (THC) was isolated in

- A. 1865
- B. 1965
- C. 1945
- D. 1989

Question Number : 5 Question Id : 70959717184 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Regular, long-term cannabis smoking is linked to bronchitis and

- A. Memory loss
- B. Migraine
- C. Cancer
- D. None

Question Number : 6 Question Id : 70959717185 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In women, cannabis smoking during pregnancy leads to decreased birth weight, most likely due to the effects of

- A. Carbon monoxide
- B. Carbon dioxide
- C. Methane
- D. Sulphur dioxide

Question Number : 7 Question Id : 70959717186 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which among the following has all the essential amino acids except sulfur containing types

- A. chickpea
- B. barley
- C. pea
- D. ground nut

Question Number : 8 Question Id : 70959717187 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Garbanzo (Spanish), pois chiche, kichar or chicher(German), chana (Hindi), and gram or Bengal gram(English) are different names of

- A. Coconut
- B. Chickpea
- C. Beans
- D. Wheat

Question Number : 9 Question Id : 70959717188 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

De Candolle (1883) traced the origin of chickpea to

- A. South of the Caucasus and northern Persia
- B. Argentina
- C. Central Asia
- D. Europe

Question Number : 10 Question Id : 70959717189 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The parenchymatous tissues of the chickpea root are rich in

- A. Starch
- B. Carbohydrates
- C. Proteins
- D. Lipids

Question Number : 11 Question Id : 70959717190 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which among the following shows diadelphous (9)+1 condition

- A. Wheat
- B. Chickpea
- C. Maize
- D. None of the above

Question Number : 12 Question Id : 70959717191 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is the major producer of chickpea in the world

- A. China
- B. America
- C. South Korea
- D. India

Question Number : 13 Question Id : 70959717192 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

*Cicer reticulatum* can be considered as a progenitor of

- A. Chickpea
- B. Barley
- C. Cashew nut
- D. Rye

Question Number : 14 Question Id : 70959717193 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Coir of commerce comes from which part of coconut

- A. Epicarp
- B. Mesocarp
- C. Seedcoat
- D. Endocarp

Question Number : 15 Question Id : 70959717194 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Extraction of coir fibers is done by

- A. Defibring process
- B. Crusher decorticator
- C. Buster decorticator
- D. All

Question Number : 16 Question Id : 70959717195 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Red coir is used in

- A. Doormats
- B. Brushes
- C. Mattresses
- D. All

Question Number : 17 Question Id : 70959717196 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The main content of coconut fiber is

- A. Cellulose
- B. Hemicellulose
- C. Lignin
- D. All

Question Number : 18 Question Id : 70959717197 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In coir potting mixes, substitute for calcium and magnesium is

- A. Dolomitic lime
- B. Sand
- C. Calcium carbonate
- D. Magnesium sulphate

Question Number : 19 Question Id : 70959717198 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

*Digitalis* is a genus of about .....species of herbaceous perennials

- A. 28
- B. 20
- C. 35
- D. 30

Question Number : 20 Question Id : 70959717199 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The digitalis species usually has a one sided raceme with

- A. 28-85 flowers
- B. 18-60 flowers
- C. 20-80 flowers
- D. 30-70 flowers

Question Number : 21 Question Id : 70959717200 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The fruit is a 2-valved, ovate, glandular, villous

- A. Capsule
- B. Drupe
- C. Both
- D. None

Question Number : 22 Question Id : 70959717201 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The other uses of digitalis include

- A. Asthma
- B. Epilepsy
- C. Tuberculosis
- D. All of the above

Question Number : 23 Question Id : 70959717202 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The plant possesses a branched

- A. Fibrous root
- B. Adventitious root
- C. Tap root
- D. None of these

Question Number : 24 Question Id : 70959717203 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Digitalis is propagated through

- A. Seeds
- B. Rhizome
- C. Bulbs
- D. All of the above

Question Number : 25 Question Id : 70959717204 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The dried leaves of the plant are used to prepare drugs for heart diseases and very beneficial for

- A. Liver problems
- B. Kidney problems
- C. Stomach problems
- D. None of the above

Question Number : 26 Question Id : 70959717205 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



Eucalyptus is a native genus from

- A. America
- B. England
- C. France
- D. Australia

Question Number : 27 Question Id : 70959717206 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which among the following are referred to as “life force” of plants?

- A. Conventional oils
- B. Non conventional oils
- C. Essential oils
- D. All of these

Question Number : 28 Question Id : 70959717207 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following factors affect the eucalyptus oil yield?

- A. Tree age and leaf age
- B. Altitude and season
- C. Harvest time and fertilizer application
- D. All of these

Question Number : 29 Question Id : 70959717208 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A commercial mosquito repellent has also been developed from *p*-menthane-3,8-diol isolated from

- A. *E. globulus*
- B. *E. dives*
- C. *E. citriodora*
- D. *E. urophylla*

Question Number : 30 Question Id : 70959717209 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The ratio of chaff to seed of Eucalyptus ranges between

- A. 10:1 to 30:1
- B. 1:1 to 10:1
- C. 2:1 to 30:1
- D. 5:1 to 30:1

Question Number : 31 Question Id : 70959717210 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The major Eucalyptus growing countries are

- A. China, India and Brazil
- B. China, India and America
- C. India, America and Brazil
- D. None of these

Question Number : 32 Question Id : 70959717211 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

For long term storage of Eucalyptus seeds temperature should be maintained at

- A. 10 °C
- B. 4°C
- C. 15 °C
- D. 0 °C

Question Number : 33 Question Id : 70959717212 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Subcritical-water extraction (SWE) uses \_\_\_\_\_ as extractant and high pressure.

- A. hot water
- B. cold water
- C. gases
- D. chemicals

Question Number : 34 Question Id : 70959717213 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The height of fennel plant is

- A. 2-3 meters
- B. 1-1.5 meters
- C. 1-2 meters
- D. 2-4 meters

Question Number : 35 Question Id : 70959717214 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The fennel plant originated in

- A. Mediterranean region
- B. Asia
- C. North America
- D. Europe

Question Number : 36 Question Id : 70959717215 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In India major producer of fennel is

- A. Rajasthan
- B. Haryana
- C. Gujrat
- D. Maharashtra

Question Number : 37 Question Id : 70959717216 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Aromatic seeds are produced in pairs during

- A. Winter
- B. Summer
- C. Autumn
- D. Spring

Question Number : 38 Question Id : 70959717217 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Fennel seed contains

- A. 6.3% water
- B. 9.5% protein
- C. 42.3% carbohydrates.
- D. All of the above

Question Number : 39 Question Id : 70959717218 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Emperor Charlemagne was known to have encouraged its cultivation in

- A. Central Europe
- B. China
- C. America
- D. France

Question Number : 40 Question Id : 70959717219 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Throughout the world how many varieties of millets are reported

- A. 2,000
- B. 6,000
- C. 4,000
- D. 8,000

Question Number : 41 Question Id : 70959717220 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Another name of foxtail millet is

- A. Araka
- B. Navane
- C. Ragi
- D. Baragu

Question Number : 42 Question Id : 70959717221 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The carbohydrate content of millets ranges between

- A. 20-60%
- B. 60-70%
- C. 35-50%
- D. 50-80%

Question Number : 43 Question Id : 70959717222 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Millets are characterized by their remarkable ability to survive in

- A. Less fertile soil
- B. Drought-resistant
- C. Resistance to pests and diseases
- D. All of the above

Question Number : 44 Question Id : 70959717223 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



On average the protein content of millet is

- A. 20-30%
- B. 12-16%
- C. 10-12%
- D. 15-18%

Question Number : 45 Question Id : 70959717224 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sorghum and pearl millet predominates in areas receiving annual rainfall respectively beyond

- A. 350mm and 400mm
- B. 300mm and 450mm
- C. 400 mm and 350 mm
- D. none of the above

Question Number : 46 Question Id : 70959717225 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Millet has uniqueness because of its richness in

- A. Protein
- B. Calcium
- C. Dietary fiber and polyphenols
- D. All the above

Question Number : 47 Question Id : 70959717226 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The name "Rosa" comes from the \_\_\_\_\_ word "rodo"

- A. Latin
- B. Greek
- C. Hebrew
- D. German

Question Number : 48 Question Id : 70959717227 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which among the following is known as "*Gol-e-Mohammadi*" in Persian

- A. *R. damascene*
- B. *R. gallica*
- C. *R. centifolia*
- D. *R. moschata*

Question Number : 49 Question Id : 70959717228 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rose trees can be productive between

- A. 5 to 10 years
- B. 1 to 3 years
- C. 30 to 40 years
- D. 10 to 30 years

Question Number : 50 Question Id : 70959717229 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rose oil is the essential oil extracted from the petals of Rosa species especially

- A. *R. damascena*
- B. *R. centifolia*
- C. Both of these
- D. None of these

Question Number : 51 Question Id : 70959717230 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rosa genus is distributed widely throughout the \_\_\_\_\_ habitats of the northern hemisphere.

- A. Temperate and subtropical
- B. Temperate and tropical
- C. Only temperate
- D. Only tropical

Question Number : 52 Question Id : 70959717231 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rose essential oil is an exceptionally rich source of different

- A. Phenolic compounds
- B. Terpenic and sesquiterpenic compounds
- C. Alcoholic compounds
- D. All of these

Question Number : 53 Question Id : 70959717232 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which among the following is known as “*Gul-e-Surkh*” in Unani System of Medicine

- A. Lavender oil
- B. Coconut oil
- C. Rose essential oil
- D. olive oil

Question Number : 54 Question Id : 70959717233 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Starch accumulates in granules in the

- A. Roots,
- B. Corms,
- C. Tubers and stems
- D. All of the above

Question Number : 55 Question Id : 70959717234 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Amylose is basically a linear chain with

- A.  $\alpha$ -1,6 linkages
- B.  $\beta$ -1,4 linkages
- C.  $\alpha$ -1,4 linkages
- D.  $\beta$ -1,6 linkages

Question Number : 56 Question Id : 70959717235 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The diameters of the granules generally range from less than

- A. 1.5 $\mu$ m to more than 90 $\mu$ m
- B. 0.5 $\mu$ m to more than 70 $\mu$ m
- C. 1 $\mu$ m to more than 100 $\mu$ m
- D. 2 $\mu$ m to more than 100 $\mu$ m

Question Number : 57 Question Id : 70959717236 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Worldwide dry starch production is actually estimated at more than

- A. 64 million tons
- B. 35 million tons
- C. 40 million tons
- D. 60 million tons

Question Number : 58 Question Id : 70959717237 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

European countries are responsible for around .....and Asia produces  
.....of the global production of wheat starch used in dextrin and modified  
starches.

- A. 60% and 20% respectively
- B. 20% and 60% respectively
- C. 40% and 70% respectively
- D. 30% and 60% respectively

Question Number : 59 Question Id : 70959717238 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The main location of starch synthesis and storage in cereals is the

- A. Scutellum
- B. Endosperm
- C. Embryo
- D. None of the above

Question Number : 60 Question Id : 70959717239 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The amylose content of maize starch ranges from

- A. 20 to 35 per cent
- B. 25 to 30 per cent
- C. 15 to 30 per cent
- D. 18 to 20 per cent

Question Number : 61 Question Id : 70959717240 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The starch content of sorghum varies from

- A. 20 to 36 per cent
- B. 25 to 49 per cent
- C. 56 to 73 per cent
- D. 20 to 60 per cent

Question Number : 62 Question Id : 70959717241 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The world production of potato starch is approximately 2 million tons, of which 500 tons are produced in the

- A. USA
- B. China
- C. Netherlands
- D. Germany

Question Number : 63 Question Id : 70959717242 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Tapioca starch is a typical root starch and is used in the production of

- A. Food products
- B. Adhesives.
- C. Both
- D. None

Question Number : 64 Question Id : 70959717243 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

*Cinchona* belongs to which family

- A. Asteraceae
- B. Ranunculaceae
- C. Rubiaceae
- D. Solanaceae.

Question Number : 65 Question Id : 70959717244 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which type of inflorescence is found in *Cinchona*

- A. Terminal
- B. Raceme
- C. Catkin
- D. Umbel

Question Number : 66 Question Id : 70959717245 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What should be the age of *Cinchona* tree so that its bark can be removed for medicinal use

- A. 2-3 years
- B. 4-5 years
- C. 6-8 years
- D. 8-9 years

Question Number : 67 Question Id : 70959717246 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Quinine is effective against which disease

- A. Typhoid
- B. Malaria
- C. Chickenpox
- D. None of the above.



Question Number : 68 Question Id : 70959717247 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Medicinal properties of *Cinchona* tree were originally discovered by

- A. People of Peru
- B. People of France
- C. People of Germany
- D. People of Iran

Question Number : 69 Question Id : 70959717248 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Propagation of the *Cinchona* trees is done through

- A. cutting
- B. grafting
- C. layering
- D. none of the above.

Question Number : 70 Question Id : 70959717249 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Quinidine is a dextrorotatory stereoisomer of

- A. cinchonine
- B. quinine
- C. caffeic acid
- D. none of the above

Question Number : 71 Question Id : 70959717250 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Plant breeding is a technique of improving

- A. Agricultural crops
- B. Fodder crops
- C. Fruit varieties
- D. All the above

Question Number : 72 Question Id : 70959717251 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A plant cell has potential to develop into full plant. This property of the plant cell is called

- A. Tissue culture
- B. Totipotency
- C. Pleuripotency
- D. Gene cloning

Question Number : 73 Question Id : 70959717252 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Selection is the method of

- A. Plant physiology
- B. Plant breeding
- C. Genetics
- D. Cytology



Question Number : 74 Question Id : 70959717253 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Desired improved varieties of economically useful crops are raised by

- A. Migration
- B. Biofertilizer
- C. Hybridization
- D. Natural selection

Question Number : 75 Question Id : 70959717254 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is the oldest breeding method

- A. Hybridization
- B. Selection
- C. Mutation breeding
- D. Introduction

Question Number : 76 Question Id : 70959717255 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

No heat is involved in which of the following method of extraction:

- A. infusions
- B. decoction
- C. lyophilization
- D. maceration

Question Number : 77 Question Id : 70959717256 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The process of infusion consists of

- A. Plant material treated in cold water
- B. Plant material boiled in water
- C. Plant material treated in cold water
- D. a+c

Question Number : 78 Question Id : 70959717257 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

All of this are consider primary metabolite except:

- A. protein
- B. carbohydrates
- C. fixed oil
- D. volatile oil

Question Number : 79 Question Id : 70959717258 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which adulteration practice is more common in case of volatile oils

- A. foreign matter
- B. inferior quality materials
- C. exhausted drug
- D. imperfect preparation

Question Number : 80 Question Id : 70959717259 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following does not belong to the leave class

- A. *Senna*
- B. *Digitalis*
- C. *Eucalyptus*
- D. *Curcuma*

Question Number : 81 Question Id : 70959717260 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Linen is obtained from

- A. *Linum arenicola*
- B. *Linum trigynum*
- C. *Linum usitatissimum*
- D. None of these

Question Number : 82 Question Id : 70959717261 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Extraction of oil by applying pressure and shear forces with mechanical expeller presses in a process called

- A. Pressing
- B. Winterization
- C. Bleaching
- D. Retting

Question Number : 83 Question Id : 70959717262 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The fatty acids present in typical oil are of the following types

- A.  $\alpha$  Linolenic acid
- B.  $\beta$  Stearic acid and palmitic acid
- C. Both a and b
- D. None of the above

Question Number : 84 Question Id : 70959717263 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Solvent extraction is practiced to increase oil recovery after

- A. Bleaching
- B. Pressing
- C. Deodorization
- D. All of the above

Question Number : 85 Question Id : 70959717264 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the components of linseed oil are removed by bleaching

- A. carotenoid
- B. chlorophyll
- C. Phosphorous
- D. Both a and b

Question Number : 86 Question Id : 70959717265 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Inflammatory reaction is reduced by

- A. Omega-3 fatty acids
- B. Phospholipids
- C. Cholesterol
- D. All Of the above

Question Number : 87 Question Id : 70959717266 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which component of linseed reduces the cancer risk

- A. Vitamin E
- B. Lignans
- C. Phytoestrogens
- D. Omega-6 fatty acids

Question Number : 88 Question Id : 70959717267 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Vitamin E is present in flax primarily as

- A.  $\alpha$ -tocopherol
- B.  $\beta$ -tocopherol
- C.  $\gamma$ -tocopherol
- D. Both a and b

Question Number : 89 Question Id : 70959717268 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Give the common name of *Papaver somniferum*

- A. Poppy
- B. Tamaku
- C. Bhang
- D. None of the above

Question Number : 90 Question Id : 70959717269 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Who acknowledged the medicinal use of opium in 460 B.C. as styptics and analgesic

- A. G. Beard
- B. Hippocrates
- C. Serturmer
- D. None of the above

Question Number : 91 Question Id : 70959717270 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is the major constituent of opiate alkaloids in poppy

- A. Thebaine
- B. Codeine
- C. Morphine
- D. Papaverine

Question Number : 92 Question Id : 70959717271 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Lecithin is obtained from which part of poppy

- A. seed meal
- B. inner wall of capsule
- C. outer wall of capsule
- D. stem

Question Number : 93 Question Id : 70959717272 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Most illicit heroin is sold as

- A. white or brownish powder
- B. black tar
- C. black powder
- D. none of these

Question Number : 94 Question Id : 70959717273 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Opium alkaloids act on

- A. Sensory nerve cells of the cerebrum
- B. Cerebellum
- C. Both a & b
- D. None of these

Question Number : 95 Question Id : 70959717274 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pigeonpea belongs to the family

- A. Fabaceae
- B. Solanaceae
- C. Poaceae
- D. Astreacea

Question Number : 96 Question Id : 70959717275 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following statements regarding pigeonpea is correct

- A. It is also known as red gram
- B. India is the largest producer of pigeonpea
- C. It ranks sixth in production in comparison to other grain legumes
- D. All of the above

Question Number : 97 Question Id : 70959717276 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which species of *Cajanus* is considered as the putative progenitor of pigeonpea

- A. *Cajanus cajanifolius*
- B. *C. kerstingii*
- C. *C. scarabaeoides*
- D. *C. acutifolius*



Question Number : 98 Question Id : 70959717277 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is false about pigeonpea flower

- A. bisexual
- B. actinomorphic
- C. calyx is gamosepalous with five lobes
- D. ovary is unilocular and monocarpellary

Question Number : 99 Question Id : 70959717278 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is false about ethanopharmacological uses of pigeonpea

- A. The garo tribal community of Bangladesh utilizes it for the treatment diabetes and as an energy stimulant.
- B. In Chinese folk medicine pigeon pea leaves are used to staunch blood, as an analgesic and to kill parasites
- C. In India (eastern Rajasthan) fresh juice/boiled leaves are given orally to nullify the effect of intoxication and as a laxative
- D. None of the above

Question Number : 100 Question Id : 70959717279 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The ability of pigeon pea to withstand severe drought better than many other legumes is attributed to

- A. its deep roots
- B. osmotic adjustment in the leaves
- C. both a and b
- D. only b