

Total No. of Printed Pages:2

SUBJECT CODE NO:- B-2167
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc S.Y. (Sem.-IV) Examination OCT/NOV 2019
Botany Paper – XI
Gymnosperms & Utilization of Plants

[Time: 1:30 Hours]

[Max.Marks:50]

Please check whether you have got the right question paper.

- N.B i) Attempt all questions.
 ii) Illustrate your answer with suitable well labelled diagram.

Q.1 Describe the external morphology of Gnetum and add a note on reproduction of Gnetum. 20

OR

What is fossilization? Add a note on types of fossil you studied.

Q.2 Write in details cultivation, harvesting and economic importance of Ground nut. 20

OR

Write short notes on **any four** of following

- a) Salient features of Gymnosperms.
- b) Male cone of Cycas.
- c) Uses of Cotton
- d) Jute
- e) Nirgudi
- f) Cumin

Q.3 Multiple Choice questions. 10

1. _____ is called living fossils.
 a) Cycas b) Pinus c) Gnetum d) none of these
2. _____ pollination is common in Gymnosperms.
 a) Anemophilous b) Eutemophilous c) both of these d) none of these
3. Megasparophyll is commonly seen in _____.
 a) Gnetum b) Pinus c) Cycas d) All of these
4. Gymnosperm differs from Angiosperms due to presence of _____ mostly.
 a) Xylem Parenchyma b) Sieve tubes c) Trachieds d) Vessels
5. The common name of *Helianthus annus* is _____.
 a) Wheat b) Jowar c) Sunflower d) Groundnut
6. The botanical name of Neem is _____.
 a) *Acacia nilotica*
 b) *Tectona grandis*
 c) *Dalbergia Sissoo*
 d) *Azadirachta Indica*.

7. Jowar is a _____ crop.
e) Pulses b) Cereal c) both of these d) none of these
8. _____ state is the leading producer of coffee.
a) Maharashtra b) Karnataka c) Tamilnadu d) Gujarat
9. Botanical name of Turmeric is _____.
a) *Curcuma longa*
b) *Mangifera indica*
c) *Orgza Sativa*
d) *Phyllanthus emblica*
10. 'Yarn' is associated with _____.
a) Ground nut b) Cotton c) Sunflower d) Safflower

Total No. of Printed Pages: 2

SUBJECT CODE NO:- B-2063
FACULTY OF SCIENCE & TECHNOLOGY
B.Sc. S.Y. (Sem-IV)
Examination November/December- 2022
Botany Paper- XI
Gymnosperms and Utilization of Plants

[Time: 1:30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

- N.B i) Attempt all questions.
 ii) Illustrate your answer with suitable labeled diagram.
- Q. 1 Describe reproductive organ in pins. 20
- OR
- Describe in detail contribution of prof. birbal sahani and give anatomical characters of Lyginopteris. 20
- Q. 2 Give an account of cultivation, harvesting and economic importance of ground nut. 20
- OR
- Write short notes on any four of the following. 20
- T.S of Pinus needle
 - Impression
 - T.S. of rachis
 - Clove
 - Economic important of sisham
 - Aloe vera
- Q. 3 Multiple choice questions 10
- Endosperm in gymnosperm is ____
 - Triploid
 - Diploid
 - Haploid
 - None of these
 - Cycas revoluta popularly known as ____
 - Date palm
 - Sago palm
 - Sea palm
 - Royal palm

3. In Pinus seed is originated in _____
- a) Capsule b) Microsporophyll c) Microsporangia d) Megasporephyll
4. In Cycas the microsporangia are borne on _____ site of microsporophyll's.
- a) Adaxial b) Abaxial c) Lateral d) Terminal
5. _____ type of vascular bundle found in gymnosperms.
- a) Collateral b) Stele c) Conjoint d) Exarch
6. The seeds of cotton is called-_____.
- a) Binola b) Silver c) Ginny d) Bolus
7. Botanical name of shisham is _____.
- a) Techtona grandis b) Dalbergia sizsoo c) Aegle marmelos d) Santalum album
8. Coriander belongs to _____ family.
- a) Mimosaceae b) Asteraceae c) Apiaceae d) Lamiaceae
9. Azadirachtin is present in _____
- a) Jambul b) Teak c) Neem d) Guava
10. Which part of jute plant is used to obtain jute fibre.
- a) Fruit b) Seed c) Stem d) Flower.

Total No. of Printed Pages:2

SUBJECT CODE NO: - 2063
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. S.Y Sem. IV
Examination March/April-2022 (To Be Held In June/July-2022)
Botany Paper- XI
Gymnosperms and Utilization of Plants

[Time: 1.53 Hours]

[Max.Marks:50]

Please check whether you have got the right question paper.

- N.B
- i) Attempt all questions
 - ii) Illustrate your answer with suitable labeled diagram
- Q.1 Give morphological and anatomical characters of Pinus 20
 OR
 What is fossilization? Describe in detail types of fossils 20
- Q.2 Give an account of cultivation harvesting & economic important of Jawar 20
 OR
 Write short notes on any four of the following 20
- a) Male cone of Cycas
 - b) T.S of Pinus needle
 - c) Petrified
 - d) Cinnamon
 - e) Economic importance of coffee
 - f) Black pepper
- Q.3 Multiple choice questions 10
- 1) Coralloid roots are found in -----
 a) Cycas b) Pinus c) Drgoptesis d) lycopodium
 - 2) Endosperm in Gymnosperm is -----
 a) Triploid b) Diploid c) Haploid d) None of these
 - 3) Cycus wood is belongs to -----
 a) Compact wood b) Monoxylic c) Pycnoxylic d) Duramen
 - 4) Pinns seeds is originated in -----
 a) Capsule b) microsporophyll c) microsporangia d) megasporophylls
 - 5) In cycus the male cone lacks of -----
 a) Microspore b) microsporophyll c) microsponangia d) Nucellns
 - 6) Queens of spices is -----
 a) cardamom b) pepper c) Ginger d) chilli

- 7) *Withania somnifera* belongs to -----
a) solanaceae b) Liliaceae c) poaceae d) Malvaceae
- 8) Sunflower is -----
a) Tree b) Shrub c) Annual forb d) Perennial herb
- 9) Botanical name of Teak is -----
a) *Acacia catechu* b) *Albizia lebbek*
c) *Tectona grandis* d) *Ficus benghalensis*
- 10) Gums are provided by -----
a) *Ocimum* b) *Acacia* c) *Calotropis* d) None of these

Total No. of Printed Pages: 2

SUBJECT CODE NO: - Y-2063
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. S.Y (Sem-IV)
Examination March / April - 2023
Botany Paper- XI Gymnosperms and Utilization of Plants

[Time: Hours 1:30]

[Max. Marks: 50]

Please check whether you have got the right question paper.

N. B

- 1) Attempt all questions.
- 2) Illustrate your answer with suitable well labelled diagram.

Q1 Describe External morphology of Cycas plant add anatomical features of coralloid root of Cycas plant 20

Or

Explain general characters of gymnosperms add a note economic importance of Gymnosperm

Q2 Give an account on cultivation, harvesting, improved varieties and economic importance of sugarcane 20

Or

Write short notes on any four of following

- a. Contribution of professor Birbal sahani
- b. Male cone of Gnetum
- c. Korphad
- d. Rose
- e. Clove
- f. Teak

Q3 Multiple Choice Question 10

- 1) In which order of Gymnosperms fossils are present
a) Bennettitales b) Coniferales c) Gnetales d) none of the above
- 2) Female cone of Pinus matura in _____
a) one year b) two year c) three year d) four year
- 3) Pollination in Pinus is _____
a) Entomophilous b) Anemophilous c) Hydrophilous d) Zoophilous
- 4) Sulphur shower is related to _____
a) Cycas b) Pinus c) Both d) None of the above
- 5) Cretaceous is a period of _____
a) Palaeozoic era b) Cenozoic era
c) Mesozoic era d) Archaeozoic era

- 6) Botanical names of tea is _____
a) Camellia sinensis b) Coffea Arabica
c) Coriandrum sativam d) Cinnamomun verum
- 7) Oil is obtained from the seeds of
a) Saccharum officinarum b) Cicer arietinum
c) Arachis hypogea d) Saccharum bengalense
- 8) Cotton plant belongs to family
a) Malvaceae b) Apocynaceae c) Solanaceae d) Fabaceae
- 9) Which plant yield several Utilizable product producing fiber , oil & animal food
a) Cotton b) Sunflower c) Jowar d) Maize
- 10) Sharbati Sonora is the variety of
a) Jowar b) Wheat c) Sunflower d) Ground nut

Total No. of Printed Pages : 2

SUBJECT CODE NO: - B-2063
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. S.Y (Sem-IV) (Pattern 2013)
Examination November / December 2023
Botany Paper- XI Gymnosperms and Utilization of Plants

[Time : 1:30 Hours]

[Max. Marks : 50]

Please check whether you have got the right question paper.

- N. B 1) Attempt all questions
2) Illustrate your answers with suitable labelled diagram.

Q1 Describe in detail male and female come of pinus. **20**

OR

Explain salient features of Gymnosperms. Add a note on economic importance of it.

Q2 Give an account on cultivation, harvesting, improved varieties and economic importance of cotton. **20**

OR

Write shorts notes on any four of the following.

- (a) Lyginopteris
- (b) Megasporophylls of cycas
- (c) Aswagandha
- (d) coriander
- (e) Mogra
- (f) Neem

Q3 Multiple choice questions. **10**

(1) in Cycas vegetative reproduction is by means of -----.

- (a) Leaf
- (b) Bulbils
- (c) Corals
- (d) Seeds

(2) Dimorphic roots found in -----.

- (a) Gnetum
- (b) Pinus
- (c) Cycas
- (d) Ephedra

(3) Connecting link between Angiosperms and Gymnosperms is -----.

- (a) Gnetales
- (b) Coniferales
- (c) Cycadales
- (d) Taxales

- (4) Gnetum plant can be easily mistaken
- (a) Tree fern
 - (b) Dicot plants
 - (c) Thalloid plants
 - (d) Monocot plants
- (5) A Gymnosperm with vessels and tracheids in xylem -----.
- (a) Gnetum
 - (b) Pinus
 - (c) Cycas
 - (d) All of above
- (6) Botanical name of Groundnut is -----.
- (a) Glycine mad
 - (b) Vigna radiata
 - (c) Helianthus annus
 - (d) Arachis hypogaea
- (7) From which part of turmeric plant, the turmeric powder is obtained ?
- (a) Seeds
 - (b) Dried rhizome
 - (c) Dried leaves
 - (d) Dried fruits
- (8) Cereals are belonging from family -----.
- (a) Asteraceae
 - (b) Fabaceae
 - (c) Poaceae
 - (d) Malvaceae
- (9) Tea is a important -----.
- (a) Alcoholic beverage
 - (b) Non-alcoholic beverage
 - (c) Distilled beverage
 - (d) All of the above
- (10) The important varieties of sugarcane are -----.
- (a) Co. 213, Co. 313
 - (b) Ca. 213, Ca. 313
 - (c) Saccharum 231, saccharum 313
 - (d) All of the above