



(2)

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ZalĀa-6. Ēāpū wāDqām Ēuāā āšyĭ TāĪĒ tĕDnm ĪĒ

National Botanic garden situated in which city?

ZalĀa-7. rĕnt ĩwĪNĪĒ ōĒā āuā āuā wāšyĭ ĩā āšyĭ Zāāwā yĕyĪrom ĪĒ

The classification given by Benthem and Hooker is related to which system?

ZalĀa-8. āāyā šyĭ yĪuā qĒ ; āāĒm wāšyĭ ĩā šyĭ āāt āvāĪ ĩ

Give the name of classification based on number of chromosomes.

ZalĀa-9. šyĭ āyāt ēšyĭ āwā āšyĭ šyĭ tĕqāwā kānā ĪĒ

Cruciform corolla is found in which family?

ZalĀa-10. šyĭ wāpāy Zāyĕā šyĭ šyĭ rmatĪ ĩ

Name the family of Calotropis Procera.

**hĪp-'r'**(Section-'B')

āāāāšyĭm vi ā ĒĪĒāu ZalĀāp šyĭ ĒĪĒ 150-200 Tāā-yātā tĕĀĀ ĩ

(Answer the following short-answer type questions with word limit 150-200) (3x5=15)

ZalĀa-1. rākāu Zāšyĭm qĒ āĪqĪā āvāĪ ĩ

Write note on seed habit.

OR

rākāwāpšyĭ Ēāāā wāpĪvāt ; wāĒĪā qĒ āĪqĪā āvāĪ ĩ

Write notes on origin of ovule and Telome concept.

ZalĀa-2. šyĭwv āāt āšyĭm āj ōā rāātuc (šyĭĒyšyĭ):

i) qāĪāy šyĭ āāwv šyĭ ; āāān šyĭ<sup>1</sup> r) yāšyĭ šyĭ rākāwāpšyĭ vĒrwm šyĭĪ

Draw diagram only (any one):

a) T.S. of Needle of Pinus b) V.S. of ovule of Cycas

ZalĀa-3. āāāāvāhm qĒ āĪqĪā āvāĪ (šyĭĒāā) :

i) āāqā āāt šyĭĪ r) ĪĒrāĒut mšyĭāšyĭ

Write short notes on the following (any one):

a) Binomial Nomenclature b) Herbarium technique

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ZalĀa-4. āāāāvāhm šyĭcytĪ āĕĕ (šyĭĒyšyĭ) :

i) wāšyĭ tĕšyĭāšyĭ āvāāā šyĭ uāāāā

r) ĩvĒ ĩwĪāĪv mĪā šyĭ āāā ĩwĪāā

Explain the following (any one) :

- a) Cytology in relation to taxonomy
- b) Merit and demerits of Engler and Prantle system

ZalĀa-5. āāāāvāhm tĕ; mĒ DqĪšyĭāĕĕ (šyĭĒyšyĭ) B

i) qāĪā šyĭ ; āāĒ qĒ qĪvāā; āĪā, yākvāāāā ĩwĪāāāyā; āāā

r) qāqšyĭ šyĭ ; āāĒ qĒ vĕtuyā, uāāāāāā mĪā qāyā

Differentiate the following (any one) :

- a) Papliniotae, Caesalpinoideae mimosiodae on the basis of androecium
- b) Lamiaceae, Euphorbiaceae and Poaceae on the basis of inflorescence

**hĪp-'y'**(Section-'C')

āāāāšyĭm āāi ē ĒĪĒāu ZalĀāp šyĭ ĒĪĒ 300-350 Tāā-yātā tĕĀĀ ĩ

(Answer the following long-answer type questions with word limit 300-350) (5x5=25)

ZalĀa-1. kāvāĪt yĕ; āq ĩāyĪtĪ mĒĒē kāvāĪt šyĭĪā šyĭ Zāšyĭuā; āšyĭcytĪ āĕĕ ĩkāvāĪtā

šyĭ Zāšyĭāšyĭ āāt āvāĪ ĩwĪāāāyq kāvāĪt šyĭ wĪāā šyĭāĕĕ ĩ

What do you understand by fossils? Explain the processes of fossilization. Write the name of different types of fossils and describe the impression type of fossil.

OR

āāāāāāā šyĭ yātāu vĪāā āvāĪ ĩ

Write general characters of Gymnosperms.

ZalĀa-2. qāĪāy šyĭ āĒ uātāāĪā šyĭ āvāāā šyĭ āvāāā ; wĪnā; āšyĭyāj ōā wĪāā šyĭāĕĕ ĩ

Explain the development of male gametophyte of pinus with the help of well labelled diagrams.