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NEET SEXUAL REPRODUCTION IN FLOWERING PLANTS — OUTBREEDING DEVICES AND POLLEN–PISTIL INTERACTION — PYQS

Max. Marks: 32 **Questions:** 8

Section A (MCQ) — 8 questions

Q.1 To ensure that only the desired pollens fall on the stigma in artificial hybridization process

A. the female flower buds of plant producing unisexual flowers need not be bagged.

B. there is no need to emasculate unisexual flowers of selected female parent

C. emasculated flowers are to be bagged immediately after cross pollination

D. emasculated flowers are to be bagged after removal of anthers

E. bisexual flowers, showing protogyny are never selected for cross

Choose the correct answer from the options given below [NEET (UG) 2022 (Phase 2)]

(1) A, D and E only (2) A, B and C only

(3) B, C and D only (4) B, C and E only

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Q.2 A dioecious flowering plant prevents both [NEET 2017]

(1) autogamy and geitonogamy

(2) geitonogamy and xenogamy

(3) cleistogamy and xenogamy

(4) autogamy and xenogamy.

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Q.3 Which of the following statements is not correct? [NEET 2016 (Phase 1)]

(1) Pollen germination and pollen tube growth are regulated by chemical components of pollen interacting with those of the pistil.

(2) Some reptiles have also been reported as pollinators in some plant species.

(3) Pollen grains of many species can germinate on the stigma of a flower, but only one pollen tube of the same species grows into the style.

(4) Insects that consume pollen or nectar without bringing about pollination are called pollen/nectar robbers.

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Q.4 Flowers are unisexual in [AIPMT 2015]

(1) China rose (2) onion

(3) pea (4) cucumber.

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Q.5 Transmission tissue is characteristic feature of [AIPMT 2015 (Cancelled)]

(1) dry stigma (2) wet stigma

(3) hollow style (4) solid style.

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Q.6 Both, autogamy and geitonogamy are prevented in [AIPMT 2012 (Prelims)]

(1) Papaya (2) cucumber

(3) castor (4) maize.

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Q.7 What does the filiform apparatus do at the entrance into ovule? [AIPMT 2008]

(1) It brings about opening of the pollen tube.

(2) It guides pollen tube from a synergid to egg.

(3) It helps in the entry of pollen tube into a synergid.

(4) It prevents entry of more than one pollen tube into the embryo sac.

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Q.8 Unisexuality of flowers prevents [AIPMT 2008]

(1) geitonogamy, but not xenogamy

(2) autogamy and geitonogamy

(3) autogamy, but not geitonogamy

(4) both geitonogamy and xenogamy

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8			
Ans.	**3**	**1**	**3**	**4**	**4**	**1**	**3**	**3**			