



# BIOLOGY

## NEET & AIIMS

### Mock test 28

#### Example

1. Which of the following plants prevent autogamy but not geitonogamy?

A. Vallisneria

B. papaya

C. castor

D. cannabis

**Answer: C**



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2. Read the following statements w.r.t. outbreeding devices.

Discourage self pollination.

Prevent loss in genetic variation. **Different placement of anther and stigma which prevents autogamy is referred as dichogamy.**

**Failure of pollen grain's germination in bisexual or monoecious plants is a genetically controlled mechanism.**

**select the correct option.**

**A. a, b & c**

**B. a, b, c & d**

**C. b, c & d**

**D. a, b & d**

**Answer: D**



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**3. Which of the following are protandrous and protogynous flowers, respectively?**

**A. Sunflower & cotton**

**B. Ficus & Aristolochia**

**C. Cotton and Ficus**

**D. Ficus & sunflower**

**Answer: C**



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**4. Which of the following is observed in casuarina?**

**A. Mesogamy**

**B. Chalazogamy**

**C. Porogamy**

**D. More than one option is correct**

**Answer: B**



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**5. Who observed pollen tube in portulaca for the first time**

**A. S.G. Nawaschim**

**B. Guignard**

**C. Strasburger**

**D. G.B. Amici**

**Answer: D**



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**6. in which of the following plants, triple fusion and double fertilization was discovered?**

**A. Portulaca & Cucurbit**

**B. Lillium & Fritillaria**

**C. Triticum & Lily**

**D. Fritillaria & Colocasia**

**Answer: B**



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**7. Fusion of male gamete and definitive nucleus results in the formation of**

**A. Primary endosperm cell**

**B. Primary endosperm nucleus**

**C. Zygote**

**D. Secondary nuclei**



**Answer: B**



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**8. Select the correct option w.r.t. plant with cellular mode of endosperm development.**

**A. Cotton**

**B. Maize**

**C. Groundnut**

**D. Petunia**

**Answer: D**



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**9. Select the odd one out w.r.t. ex-albuminous seed.**

**A. Groundnut**

**B. Beans**

**C. Barley**

**D. Pea**

**Answer: C**



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**10. Which of the following plants have stony endosperm?**

**A. Castor and groundnut**

**B. Areca nut and phoenix dactyliifera**

**C. Wheat and coconut**

**D. Barley and date palm**

**Answer: B**



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**11. Select the odd one out w.r.t. ruminant endosperm.**

**A. Maize**

**B. Passiflora**

**C. Annona**

**D. Myristica**

**Answer: A**



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**12. Who discovered effect of foreign pollen on somatic tissue present outside the endosperm?**

**A. Strasburger**

**B. Focke**

**C. Swingle**

**D. Guignard**

**Answer: C**



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**13. Xenia effect was first observed in**

**A. Wheat**

**B. Groundnut**

**C. Pea**

**D. Maize**

**Answer: D**



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14. Which among the following plant has diploid endosperm?

A. Betal nut

B. Oenothera

C. Date palm

D. Phoenix

Answer: B



15. The structure of flower which forms pericarp in true fruit is

- A. Thalamus
- B. Outer integument of ovule
- C. Stalk
- D. Wall of ovary

**Answer: D**





**16. In dicotyledonous embryo, the cylindrical portion below the level of cotyledons which terminates into root tip is**

**A. Hypocotyle**

**B. Epicotyle**

**C. Plumule**

**D. Redicle**

**Answer: A**



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17. In grass family, the cotyledon is called:

A. Scutellum

B. Proembryo

C. Procambium

D. Dermatogen

**Answer: A**



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**18. one of the examples of seeds in which the endosperm is completely consumed during embryo development is**

**A. Pea**

**B. Maize**

**C. Wheat**

**D. Sunflower**

**Answer: A**



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**19. Which of the following conditions show that the embryo of a seed is entering the state of dormancy?**

**Dry weight of seed is increasing**

**Watercontent is reducing.**

**The general metabolic activity of embryo is slowing down.**

**oxygen consumption of seed is increasing.**

**A. A and b only**

**B. A,B and D**

**C. B and D only**

**D. B and C only**

**Answer: D**



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**20. Plants developed from apomictic embryos of a plant are**

**A. Genetically different to each other**

**B. Morphologically similar to each other**

**but genetically different from parent**

**plant**

**C. Different to each other w.r.t. their ploidy**

**D. Genetically identical to each other as well as to their parent**

**Answer: D**



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**21. After double fertilization, most zygotes divide only after certain amount of endosperm**

is formed. One of the importance of this adaptation is

**A. To push the developing embryo out of the micropyle**

**B. To prevent the developing zygote from being divided into many embryos**

**C. To provide assured nutrition to the developing embryo**

**D. To provide sufficient space for developing embryo by dissolving outer**

and inner integuments of ovule

Answer: C



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22. The first cell of suspensor towards micropyle is called

A. Vesicular cell

B. Hausrorial cell

C. Hypophysis



**D. Both (1) & (2)**

**Answer: D**



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**23. The remains of second cotyledon occur in some grasses it is called**

**A. Scutellum**

**B. Epiblast**

**C. Coleoptile**

## D. Hypocotyle

**Answer: B**



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**24. In some plants, megaspore mother cell does not divide by meiotic division, instead from an unreduced embryo sac, containing diploid egg cell. This condition is referred as**

**A. Sporophytic budding**

**B. Polyembryony**

**C. Recurrent agamospermy**

**D. Parthenocarpy**

**Answer: C**



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**25. Which one of the following plants have many seeds in their fruits?**

**A. Orchid and striga**

**B. Orobanche and orchid**

**C. Mango and banana**

**D. both (1) & (2)**

**Answer: D**



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**26. Which one is mismatched?**

**A. true fruit -Mango**

**B. False fruit -cashewnut**

**C. Parthenocarpic fruit -Banana**

**D. Fleshy fruit -Mustard**

**Answer: D**



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**27. The oldest seed of *Lupinus arcticus* excavated from arctic Tundra was germinated and flowered after an estimated record of — — of dormancy.**

**A. 2,000 years**

**B. 10,000 years**

**C. 20,000 years**

**D. 1,00,000 years**

**Answer: B**



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**28. Sporophytic budding is found in**

**A. Citrus**

**B. Pear**

**C. Apple**

**D. Both (2) & (3)**

**Answer: A**



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**29. Which of the following cell undergoes first meiotic division during spermatogenesis?**

**A. Spermatogonium**

**B. Primary spermatocyte**

**C. Secondary spermatocyte**

**D. Spermatid**

**Answer: B**



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**30. Milk secreted by the alveoli of mammary lobes travels through the following structures to the exterior.**

**Lactiferous duct**



**Mammary ducts**

**Mammary ampulla**

**Mammary tubule**

**identify the correct sequence.**

**A. 1 - 2 - 3 - 4**

**B. 2 - 4 - 3 - 1**

**C. 4 - 3 - 2 - 1**

**D. 4 - 2 - 3 - 1**

**Answer: D**



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**31. Spermatidus are transformed into spermatozoa by the process of**

- A. Spermiogenesis**
- B. Spermiation**
- C. Spermatogenesis**
- D. Spermatolysis**

**Answer: A**



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32. Which of the following represents the correct number of chromosomes in various cell that are mentioned below?

A. 23 - 23 - 23 - 23

B. 46 - 23 - 23 - 23

C. 46 - 23 - 23 pairs - 23

D. 23 pairs - 23 pairs - 23 - 23

**Answer: D**



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**33. Which of the following provides energy for the movement of sperm in mammals?**

**A. Tail only**

**B. Middle piece only**

**C. Head only**

**D. Tail and middle piece**

**Answer: B**



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**34. Which of the following structures in sperm helps in the first cleavage of a fertilised egg?**

**A. Proximal centriole**

**B. Distal centriole**

**C. Acrosome**

**D. Both (1) & (2)**

**Answer: A**



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**35. At puberty total number of primary follicles in each ovary of human female is about**

**A. 80000**

**B. 600000**

**C. 160000**

**D. 1600000**

**Answer: A**



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**36. Which of the following is a component of secondary follicle?**

- A. Theca interna**
- B. Secondary oocyte**
- C. Cumulus oophorus**
- D. Primary oocyte**

**Answer: D**



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**37. Zona pellucida is secreted by**

- A. Primary oocyte**
- B. Secondary oocyte**
- C. Corona radiata**
- D. Ootid**

**Answer: B**



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**38. First meiotic division of oocyte is completed in**

- A. Primary follicle**
- B. Secondary follicle**
- C. Tertiary follicle**
- D. Graafian follicle**

**Answer: C**



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**39. Choose the correct math w.r.t. menstrual cycle.**

**A. Follicular phase - Low concentration of estrogen**

**B. Secretory phase - Low concentration of progesterone**

**C. Luteal phase - Shedding of endometrial lining**

**D. Proliferative phase - Increase in thickness of endometrium lining**

**Answer: D**



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**40. Second meiotic division during oogenesis is completed in**

**A. Ovary**

**B. Graafian**

**C. Fallopian tube**

**D. Tertiary follicle**

**Answer: C**



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**41. Secondary oocyte formation occurs in**

**A. Secondary follicle**

**B. Graafian follicle**

**C. Fallopaian tube**

**D. Uterus**

**Answer: B**



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**42. Which of the following is an example of monoestrous animal?**

**A. Mouse**

**B. Squirrel**

**C. Horse**

**D. Bat**

**Answer: D**



**43. Which of the following is diploid?**

- A. Primary oocyte**
- B. oogonium**
- C. Secondary oocyte**
- D. Both (1) & (2)**

**Answer: D**



**44. Which of the following is secreted by follicular cells during proliferative phase?**

**A. Estrogen**

**B. Inhibin**

**C. FSH**

**D. Both (1) & (2)**

**Answer: D**



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**45. Choose the correct match.**

**A. LH - Corpus luteum**

**B. Estrogen - Ovarian follicle**

**C. Progesterone - Zona pellucida**

**D. FSH - Ovary**

**Answer: B**



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