



BIOLOGY

NEET & AIIMS

Mock test 27

Example

1. Select the correct option w.r.t. division required for formation of 3-celled mature male gametophyte from pollen mother cell.

- A. 2 mitotic and 2 meiotic divisions
- B. 1 meiotic and 3 mitotic divisions
- C. 1 meiotic and 2 mitotic divisions
- D. 2 meiotic and 2 mitotic divisions

Answer: C



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2. What is the most common and primitive type of ovule, respectively?

A. circinotropous and campylotropous
ovule

B. Amphitrophous and orthotropous ovule

C. Orthotropous and anatropous ovule

D. Anatropous and orthotropous ovule

Answer: D



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3. In which of the following kinds of ovules, the embryo sac is horse-shoe shaped

A. Campylotropous ovule

B. Amphitropous ovule

C. Circinotropous ovule

D. Hemi-anatropous ovule

Answer: B



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4. The matured embryo sac of *Oenothera* is

A. 4 celled & 4 nucleated

B. 8 celled & 8 nucleated

C. 7 celled & 8 nucleated

D. 7 celled & 7 nucleated

Answer: A



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5. In an embryo sac, the largest cell is

A. Synergids

B. Antipodal cells

C. Central cell

D. Oosphere

Answer: C



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6. Which of the following does not ensure autogamy in *Viola*?

A. Cleistogamy

B. Homogamy

C. Bud pollination

D. Dichogamy

Answer: D



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7. Geitonogamy is functionally_____ & genetically_____.

A. Autogamy, allogamy

B. Allogamy, autogamy

C. Allogamy, xenogamy

D. Autogamy, autogamy

Answer: B



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8. Sea grass is an example for

A. Epiphytism

B. Hypohydrophily

C. Anemophily

D. Entomophily

Answer: B



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9. Queens of *bombus affinis* is _____ for *Aquilegia* spurs.

A. Pollinator

B. Pollen Robber

C. Nectar Robber

D. More than one option is correct

Answer: D



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10. Presence of pollen kift is adaptation for

A. Ophiophily

B. Ornithophily

C. Entomophily

D. Chiropterophily

Answer: C



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11. Ploidy level of polar nucleus and definitive nucleus is respectively

A. N & $3N$

B. N & N

C. N & $2N$

D. $2N$ & $2N$

Answer: C



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12.7 celled-8 nucleate embryosac is

A. Monosporic

B. Bisporic

C. Tetrasporic

D. All of these

Answer: D



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13. Pollination between flowers borne on two different plants of the same species refers to:

A. Xenogamy

B. Geitonogamy

C. Autogamy

D. Homogamy

Answer: A



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14. In a majority of aquatic plants, flowers

Remain submerged in water

Emerge above the level of water

Are pollinated by water

Are pollinated by insects or wind

A. A & C

B. B & D

C. B & C

D. A & D

Answer: B



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15. Primate like lemur is pollinator of _____plant.

A. Flax

B. Ravenela

C. Zostera

D. Aquilegia

Answer: B



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16. Which one is mismatched?

A. Anemophilous flower - Uniovulate ovary

B. Hydrophilous flower - Long sticky stigma

C. Entomophily - Bombax

D. Chiropterophily - Adansonia

Answer: C



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17. Select odd one w.r.t anemophily.

A. Maize & wheat

B. Wheat & sugarcane

C. Bamboo & Zostera

D. Both (2) & (3)

Answer: C



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18. Which of the following is not a part of duct system of female reproductive system?

A. Uterus

B. Fourchette

C. Both (1) & (2)

D. Vagina

Answer: B



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19. Greater vestibular glands are

A. Paraurethral glands

B. Skene's glands

C. Bartholin's glands

D. Both (1) & (2)

Answer: C



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20. In human males, tunica albuginea is the collagenous covering of testis but in females

A. It is the outermost covering of ovaries

B. It is the outermost layer of ovarian foilicles

C. It separates two zones i.e. medulla and
cortex of stroma in ovary

D. It surrounds ovarian cortex

Answer: D



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21. Read the following statements.

statement - 1 : vagina acts as birth canal along
with cervix

Statement - 2 : It is line by non-keratinised

stratified cuboidal epithelium

Choose the correct option.

- A. Both statements are correct
- B. statements 1 is correct and 2 is incorrect
- C. statements 1 is incorrect and 2 is correct
- D. Both statements are incorrect

Answer: B



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22. Which of the following is a correct match ?

A. Mesosalpinx → attaches ovary to abdominal cavity

B. Endometrium → avascular and glandular layer of uterus

C. Mesometrium → muscular layer of uterus

D. Ampulla → sit of fertilization

Answer: D



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23. Corpora cavernosa is found in

- A. Clitoris
- B. Mons veneris
- C. Penis
- D. Both (1) and (3)

Answer: D



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24. Which of the following pairs of organs is not homologous?

A. Labia majora and scrotum

B. Labia minora and foreskin

C. Clitoris and penis

D. Cowper's gland and Bartholin's gland

Answer: B



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25. Scrotum remains connected to abdominal cavity by

- A. Inguinal canal
- B. Gubernaculum
- C. Epididymis
- D. Both (1) and (2)

Answer: A



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26. Secretion from which of the following cells inhibits the development of paramesonephric duct in males?

A. Interstitial cells

B. Sertoli cells

C. Spermatogonia

D. Spermatozoa

Answer: B



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27. Which of the following is not a part of intra-testicular duct system?

A. Tubuli recti

B. Proximal part of ductuli efferentes

C. Roto testis

D. Epididymis

Answer: D



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28. Gubernaculum is a fibrous cord that connects

- A. Caput-end of epididymis to scrotal wall
- B. Caput-end of epididymis to abdominal cavity
- C. Testes to abdominal cavity
- D. Caudal end of epididymis to scrotal wall

Answer: D



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29. Which of the following statements is correct?

A. Choir boys were often castrated to retain their high-pitched voice.

Castration led to deficiency in LH and FSH

B. 20-25 vasa efferentia confluent to form a folded and coiled tube called epididymis behind each testis.

C. Secretion of prostate gland is rich in prostaglandins, inositol, fructose and Ca^{2+} ion

D. Blood testis barrier is formed by formation of tight junctions between sustentacular cells.

Answer: D



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30. Ejaculatory duct is formed by union of

A. Duct from seminal vesicle, vas deferens
and glandular part of urethra

B. Duct from prostate gland and
membranous urethra

C. Duct from seminal vesicle and vas
deferens

D. Duct from Cowper's gland and penile
urethra

Answer: C



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31. Which of the following is an incorrect match regarding gland, its location and secretion?

A. Preputial gland , skin around penis neck,

Smegma

B. Prostate gland, Lies at base of urinary

bladder, Alkaline component of semen

C. Cowper's gland, Adjacent to urethra at the base of penis, Viscous mucus which acts as lubricant

D. Seminal, In front of urinary bladder, Major components of semen like fructose citric acid

Answer: D



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32. While moving through the male reproductive system sperm passes through following structures

a. Seminiferous tubule

b. Epididymis

c. Urethra

d. Rete testis

e. Vasa efferentia

f. Ejaculatory duct

g. Vas deferens

A. a → d → e → b → g → f → c

B. $a \rightarrow e \rightarrow d \rightarrow b \rightarrow f \rightarrow g \rightarrow c$

C. $a \rightarrow b \rightarrow d \rightarrow g \rightarrow f \rightarrow e \rightarrow c$

D. $a \rightarrow e \rightarrow b \rightarrow d \rightarrow g \rightarrow c \rightarrow f$

Answer: A



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