



## BIOLOGY

### NEET & AIIMS

#### TEST 1

#### Example

1. Coconut water is

- A. Persistent nucellus
- B. Endosperm
- C. Testa
- D. Triploid embryo

**Answer:**



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2. During artificial hybridisation, emasculation is done in

- A. Unisexual pistillate flower
- B. Unisexual staminate flower
- C. Bisexual flower
- D. Sterile male flower

**Answer:**



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3. Which of the following cannot be floral reward provided by plants to pollinators?

- A. Pollens

B. Nectar

C. Fragrance

D. Providing safe place to lay eggs

**Answer:**



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4. The type of pollination which cannot bring genetically same types of pollens on stigma is

A. Autogamy

B. Geitonogamy

C. Cleistogamy

D. Xenogamy

**Answer:**



5. Vegetative propagation in Chrysanthemum occurs by

- A. Runner
- B. Sucker
- C. Offset
- D. Bulbils

**Answer:**

6. State true (T) or false (F) for the following statements. A. Multicellular organisms are immortal. B. Endothecium layer helps in dehiscence of anther.

- A. A-T and B-T

B. A-F and B-T

C. A-T and B-F

D. A-F and B-F

**Answer:**



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7. Arrange the following organisms in the ascending order of their life span. a. Banyan tree b. Parrot c. Fruit fly d. Peepal tree

A. altbltcltd

B.  $c < b < d < a$

C.  $c < b < a < d$

D. cltaltbltd

**Answer:**



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8. Embryogenesis is absent in the plant group that is

- A. Pteridophytes
- B. Bryophytes
- C. Algae
- D. Gymnosperms

**Answer:**

9. Assertion : Zygote is the only cell that gives a vital link between two generations of an organism.

Reasons : The two gametes fuse to form a single zygote.

- A. Only c

B. Only a and b

C. Only a

D. All a, b and c

**Answer:**



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**10.** The male and the female sex organs of Chara are respectively called

A. Globule and Antheridium

B. Nucule and Oogonium

C. Antheridium and Nucule

D. Nucule and Globule

**Answer:**



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11. Which of the following is not possible in sexual reproduction?

- A. Involvement of single parent
- B. Offsprings identical to parents
- C. Syngamy
- D. Meiosis

**Answer:**

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12. Select the correct statement for Eichhomia

- A. It grows in running water
- B. It is pollinated by wind



C. It propagates vegetatively by offset

D. It supplies  $O_2$  to the water and promotes growth of fishes

**Answer:**

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**13.** Adventitious buds at the margins of leaves help in vegetative propagation of

A. Ananas

B. Bryophyllum

C. Grasses

D. Pineapple

**Answer:**

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14. Eyes in potato tubers are

- A. Roots
- B. Nodes
- C. Buds
- D. Internodes

**Answer:**



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15. Select the true statement about cleistogamy

- A. It ensures seed formation
- B. It promotes xenogamy
- C. It produces genetic variations
- D. It is an adaptation to ensure cross pollination

**Answer:**



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**16.** The ploidy level of egg apparatus is

- A.  $(2n+n)$
- B.  $(2n + 2n)$
- C.  $(n+n+n)$
- D.  $(2n+3n)$

**Answer:**



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**17.** The portion of the embryonal axis above the level of attachment of scutellum is

A. Coleoptile

B. Epicotyl

C. Hypocotyl

D. Epiblast

**Answer:**



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**18.** In the formation of endosperm of wheat, which of the following cell is involved?

A. Antipodal cell

B. Synergid cell

C. Central cell

D. Egg cell

**Answer:**



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**19.** An event unique to angiosperms is

- A. Fusion of male and female gametes
- B. Fusion of male gamete with secondary nucleus
- C. Formation of zygote
- D. Presence of female gametophyte

**Answer:**



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**20.** Entry of pollen tube into the embryo sac takes place from a.  
Chalazal end b. Micropylar end c. Integuments

- A. Only a
- B. Only b
- C. Only b and c
- D. All a, b and c

**Answer:**

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**21.** The parenchymatous mass of tissue enclosed within the integuments and forms the body of ovule is

- A. Called female gametophyte
- B. Diploid
- C. Known as megasporangium
- D. Absent in beet seeds

**Answer:**



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**22.** The most common type of ovule in angiosperm is:

- A. Is found in all members of leguminosae
- B. Turns at  $180^\circ$  angle, hence it is inverted ovule
- C. Is the most primitive type of ovule
- D. Has curved horse shoe like embryo sac

**Answer:**



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**23.** If there is only one PMC in a pollen sac then the total number of male gametes produced by it is

A. 4

B. 2

C. 8

D. 6

**Answer:**



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**24.** Male and female sex organs are present on separate plant bodies in all, except

A. Papaya

B. Date palm

C. Marchantia

D. Cucurbits



**Answer:**



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**25.** Select the incorrect match.

- A. Mode of reproduction : Bulb (Ex. Onion)
- B. Mode of reproduction: Rhizome (Ex.Banana)
- C. Mode of reproduction : Zoospores (Ex-yeast)
- D. Mode of reproduction : Conidia (Ex-yeast)

**Answer:**



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**26.** Presence of distinct theca externa and theca interna is seen in

- A. Oogonial cells

B. Primary follicle

C. Secondary follicle

D. Tertiary follicle

**Answer:**

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**27. Meiosis I results in formation of**

A. Spermatids

B. Ootid

C. Second polar body

D. Secondary oocyte

**Answer:**

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28. Choose the odd one w.r.t external genitalia of a female

A. Cervix

B. Clitoris

C. Hymen

D. Mons pubis

**Answer:**



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29. Hormone responsible for release of milk by mammary glands is

A. Estrogen

B. hPL

C. Prolactin

D. Oxytocin

**Answer:**

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**30.** Duration of luteal phase in a woman whose menstrual cycle is 34 days is

A. 20 days

B. 17 days

C. 14days

D. 5days

**Answer:**

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31. Which among the following helps sperm to enter cytoplasm of secondary oocyte ?

- A. Middle piece
- B. Distal centriole
- C. Proximal centriole
- D. Acrosome

**Answer:**



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32. Type of cleavage in human is

- A. Meroblastic
- B. Holoblastic
- C. Spiral

D. Determinate

**Answer:**

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**33.** How many celled stage is the Human morula?

A. 2 – 3

B. 1

C. 100-120

D. 8 – 16

**Answer:**

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**34.** Dizygotic twins are a result of

- A. Fusion between two different sperms and one ova
- B. Fusion between one sperm with two ova
- C. Fusion between two different sperms with two separate ova
- D. Splitting of a zygote formed by fusion of one sperm and one ova

**Answer:**

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**35.** Which of the following is not true for human placenta?

- A. It is hemochorial
- B. It permits movement of certain antibodies to provide immunity to foetus
- C. It acts as foetal lung
- D. Mixing of maternal and foetal blood occurs at placenta

**Answer:**



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**36.** By the end of \_\_\_\_\_, the body is covered with fine hair , eye-lids separate and eyelashes are formed. Choose the option correctly.

- A. First trimester
- B. Second trimester
- C. One month
- D. Two month

**Answer:**



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**37.** signals for parturition originate from



- A. Foetal oxytocin
- B. Placenta and fully developed foetus
- C. Decrease in estrogen to progesterone ratio
- D. Hormone released from pineal gland

**Answer:**

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**38.** Colostrum release after child birth is rich in which type of antibodies ?

- A. IgG
- B. IgM
- C. IgA
- D. IgE

**Answer:**



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**39.** Choose the event that occurs inside the body even in case of external fertilisation

- A. Gamete formation
- B. Syngamy
- C. Gastrulation
- D. Embryogenesis

**Answer:**



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40. Dominant hormone of pro-estrous phase of estrous cycle among following is

A. FSH

B. Progesterone

C. LH

D. Testosterone

**Answer:**



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41. Which among the shows cross -fertilization despite being a hermaphordite ?

a. Cockroach b. Leech c. Earthworm d. Sponges

A. c and d only

B. a only

C. b,c,and d

D. a,b and c

**Answer:**



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**42.** Choose the incorrect statement

A. Slowing of metabolism is observed during phase of senescence

B. Multiple fission is a mode of reproduction in Plasmodium

C. Heterogametes in humans differ based on chromosome number

D. Gamete formation is a pre-fertilisation

**Answer:**



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43. Diploid cells formed during gametogenesis are represented by

- A. Spermatids
- B. First polar body
- C. Primary spermatocyte
- D. Secondary oocyte

**Answer:**



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44. The paired accessory gland of male reproductive system whose secretion contain fructose is

- A. Bulbourethral gland
- B. seminal vesicle

C. Cowper's gland

D. Prostate gland

**Answer:**



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**45.** Read the given statements .

A. Leydig cells are located in interstitial spaces in testes

B. Sertoli cells of seminiferous tubules provide nourishment to developing sperms. Select the correct option .

A. Only statement A is correct

B. Statement B is false

C. Both statement A and B are correct

D. Both statement A and B are incorrect

**Answer:**



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46. Shedding of endometrium is triggered by decline in

- A. Estrogen
- B. FSH
- C. Progesterone
- D. hCG

**Answer:**



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47. Choose the mismatch.

- A. Hysterectomy - Surgical removal of uterus
- B. Zonal pellucide- Acellular layer secreted by secondary oocyte

C. Antrum - Primary follicle

D. Ectopic pregnancy - Implantation of embryo at site other than uterus

**Answer:**

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**48.** Choose the option depicting the correct sequence of reproductive event in sexual reproduction?

A.

*Implantation → Gestation → Parturition → Insemination*

B. Gametogenesis Insemination rarr Fertilisation rarr Implantation`

C.

*Fertilisation → Insemination → Implantation → Gestation*

D. *Implantation → Parturition → Gestation → Lactation*



**Answer:**



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**49.** Site of completion of meiosis II resulting in formation of ootid is

- A. Ampulla
- B. coelom
- C. vagina
- D. cervix

**Answer:**



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**50.** Choose the correct statement

- A. GnRH targets anterior pituitary for release of FSH

B. amnion of mammalian embryo is derived from endoderm and trophoblast

C. In spermatogenesis, diploid spermatids are formed while in spermiation haploid spermatozoa are formed

D. graafian follicle is characterized by presence of an acellular layer called corona radiata

**Answer:**

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51. The extra embryonic membrane associated with hematopoiesis during early embryonic stage in human is

A. Amnion

B. Chorion

C. Yolk sac

D. Allantois

**Answer:**

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**52.** Event not occurring during embryogenesis of male foetus is

A. Gamete formation

B. Mitosis

C. Cell differentiation

D. Differential expression of genes

**Answer:**

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53. Formation of zygote is observed in those animals that (a) exhibit internal fertilization (b) undergo external fertilization (c) are diploid (d) exhibit great synchrony in laying gametes in water

- A. only (a) and (b) are correct
- B. only (c) and (d) are incorrect
- C. only (c) is incorrect
- D. all four statements are correct

**Answer:**

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54. Drones of apis are

- A. sterile males
- B. fertile males

C. sterile female

D. fertile females

**Answer:**



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**55.** Proper embryonic care and protection increase chances of survival of young ones in

A. All animals that lives on land

B. All animals that lives in water

C. Terrestrial but oviparous animal

D. Terrestrial but viviparous animal

**Answer:**



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56. The chromosome number in meiocytes of human being is \_\_\_A\_\_\_ while genetic constitution of their male gametes may be represented by \_\_\_B\_\_\_. Choose the option that fills the blanks correctly.

- A. 46(A),23+Y(B)
- B. 46(A),22+X(B)
- C. 23(A),44+XX(B)
- D. 23(A),44+XY(B)

**Answer:**

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57. Cyclical changes in activities of reproductive organ undergoing oestrus cycle are observed in

- A. monkeys

B. chimpanzees

C. gorillas

D. cows

**Answer:**



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**58.** Which of the following is not an hormone secreted by Corpus luteum?

A. relaxin

B. luteinizing hormone

C. progesterone

D. estrogen

**Answer:**



59. Hormone secreted only during pregnancy is

- A. Cortisol
- B. Progesterone
- C. hPL
- D. estrogen

**Answer:**

60. Hormone whose presence in urine is a indicator of pregnancy is

- A. LH
- B. progesterone



C. FSH

D. hCG

**Answer:**



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**61.** The term Nebenkern arrangement refers to arrangement of which organelle in a spermatozoon?

A. centrioles

B. nucleus

C. flagella

D. mitochondria

**Answer:**



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**62.** Match the items given in column I with those in column II and choose the correct option. Column I- (a) Menarche(b) Menopause(c)Amonorrhea Column II-(a) abrupt increase in gonadotropins(b) fertilisation of ova (c)first menstrual cycle at puberty

A. (a)iii(b)i(c)ii

B. (a)i(b)ii(c)iii

C. (a)ii(b)i(c)iii

D. (a)i(b)iii(c)ii

**Answer:**



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**63.** Select the correct match.

A. gemmules -sponge

B. encystation-yeast

C. sporulation-hydra

D. budding-earthworm

**Answer:**



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**64.** Asexual reproduction differs from sexual reproduction

A. in being more complex

B. as gamete fusion is not seen in asexual reproduction

C. as it is never uniparental

D. as it is a slower and elaborate process than sexual reproduction

**Answer:**

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65. Which is not true for the biological process called reproduction?

- A. process that helps in replacing dying and diseased individual
- B. it is a part of cycle of birth,growth and death of an organism
- C. this process disables the continuity of species
- D. in this process and organism give rise to young ones similar to itself

**Answer:**

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66. The word 'ephemeral' implies short lived.Which amongst the following has minimum life span?

A. cow

B. fruitfly

C. crocodile

D. tortoise

**Answer:**



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**67.** Cell division is itself a mode of reproduction in

A. parrot

B. butterfly

C. Paramecium

D. Hydra

**Answer:**

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68. A vital process without which human species cannot survive for long is

- A. fragmentation
- B. sporulation
- C. budding
- D. reproduction

**Answer:**

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69. Mode of reproduction that enables creation of new variants leading to enhanced survival advantage is

- A. parthenogenesis

B. binary fission

C. budding

D. sexual reproduction

**Answer:**



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**70.** How many of the following plants flowers only once in their life?

(Rice carrot Mango Apple Jackfruit Neelakurinji China rose Bamboo species Wheat)

A. 6

B. 5

C. 4

D. 3

**Answer:**

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71. Select the odd one w.r.t plants groups that use water as a medium for male gamete transfer

- A. Algae
- B. Bryophytes
- C. Pteridophytes
- D. Gymnosperms

**Answer:**

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72. How many of the following features are true for Chara? a. Mostly dioecious b. Female sex organ at lower position than male c. Nucule occupies upper position than the globule e. Produces both motile male and female gametes f. Male gametes are produced inside the globule

A. Three

B. Four

C. Two

D. One

**Answer:**



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73. Mark the incorrect statement for water hyacinth

- A. Was introduced in Bengal due to its beautiful flowers and shape of leaves
- B. Produces its clones in short period of time at a phenomenal rate
- C. An invasive weed of standing water bodies
- D. Release some toxins which leads to death of fishes

**Answer:**



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**74.** Which statement is not true for an anther?

- A. Outer three layers of another wall perform protection and help in dehiscence of anther

- B. Developing pollen grains are nourished by the layer having dense cytoplasm and generally more than one nucleus
- C. Hygroscopic fibrous bands are dispersed in the form of tetrads
- D. pollen grains are dispersed in the form of tetrads

**Answer:**

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**75.** A structure which represents the male gametophyte of angiosperms has

- A. The most resistant organic material in its inner layer
- B. Two male gametes in majority of angiosperms at the time of dispersal
- C. Dependency on surrounding temperature and humidity to remain viable

D. Germ pores for release of male gametes directly into ovule

**Answer:**

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76. Microspore mother cell is similar to megaspore mother cell in all except

- A. Being diploid
- B. Producing gametes
- C. Undergo meiosis
- D. Having callose layer

**Answer:**

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77. Choose the incorrect feature regarding transmission tissues

- A. cells have deposition of pectin
- B. Found in solid style
- C. Thick walled cells
- D. pollen tube cannot grow through them

**Answer:**



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78. Which of the following pairs is not correctly matched

- A. Ovule-Megasporangium
- B. Fillsform apparatus-Synerigids
- C. Apocarpous multicarpelley gynoecium-Papaver
- D. Largest cell of the embryo sac- central cell

**Answer:**



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**79.** Cleistogamy doesn't impose high cost on plants for pollination but still is restricted to few plant species only because

- A. It shows low yield of plants
- B. It restricts genetic variability in plants
- C. Absence of beautiful flowers
- D. Absence of polinators

**Answer:**



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**80.** Read the given features of a plant A a. Non sticky pollen grains Well exposed stamens Nectar absent Flowers are packed into inflorescence On the basis of above features identify the type of pollinating agent preferred by the plant A for pollination

A. Water

B. insect

C. Wind

D. Bat

**Answer:**



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**81.** Identify the odd one w.r.t ploidy level

A. Egg

B. Antipodals

C. Synergids

D. Secondary nucleus

**Answer:**

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**82.** Apomictic seeds are not found

A. Citrus

B. Mango

C. Grasses

D. Brassica

**Answer:**

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**83.** Parthenocarpy and apomixis are similar in

- A. Absence of fertilization
- B. Absence of embryo formation
- C. Absence of fruit formation
- D. Absence of seeds

**Answer:**



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**84.** Read the following statements and mark them as True (T) or False

a.coconut water from tender coconut has thousands of free nuclei.

b.Both endosperm and perisperm are similar in ploidy level and their

origin d.Single large shield shaped cotyledon of wheat embryo is

known as epiblast

A. T F F F

B. T F T F

C. T F F T

D. T T F F

**Answer:**



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**85.** Find the correct match w.r.t seed

A. Seed coat- Represents integument of ovary

B. Micropyle- Represents pore of ovary through which pollen tube enters

C. Hilum- Represents the point at which body of ovule was attached with funicle

D. Endosperm - Represents product of syngamy

**Answer:**

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**86.** Choose the odd statement for pollen grains

A. pollen grains of some species cause severe allergies

B. can be used as food supplement

C. can be stored at  $196^{\circ}\text{C}$  in liquid  $\text{N}_2$

D. Have fascinating array of patterns and designs of pectocellulose  
on outer wall

**Answer:**

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**87.** Complete the given statements by choosing the correct option for A, B, C and D. Among the insects which are the dominant biotic pollinators. a. B and C provide safe places for egg laying as the floral rewards. c. C Insects which consume pollen or nectar without bringing about pollination are called D

A. A. Butterflies, B. Aquilegia, C. Hydrilla, D. Pollen robbers

B. A. Bees, B. Yucca, C. Amorphophallus, D. Pollen robbers

C. A. Beetles, B. Yucca, C. Amorphophallus D. Pollen robbers

D. A. Bees, B. Aquilegia, C. Pronuba, D. Pollen robbers

**Answer:**

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**88.** Phenomenon unique to angiosperms is/are

A. Syngamy

B. Triple fusion

C. Double fertilization

D. Both (2) & (3)

**Answer:**



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**89.** In Citrus plants, many embryos are found in each seed. These embryos are clones of each other except the one which is formed by

A. Nucellus

B. Integument

C. Zygote

D. Both (1) and (2)

**Answer:**



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**90.** Genetically different pollen grains and stigma of the same species participate in

- A. Autogamy
- B. Geitonogamy
- C. Cleistogamy
- D. Xenogamy

**Answer:**

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**91.** The monosporic embryo sac is a. The most common embryo sac of angiosperms. b. Formed by single megaspore. c. Formed by one meiosis in MMC and only two sequential mitosis in functional megaspore.

A. Both a and c are true

B. Only c is false

C. All a, b and c are true

D. Only a is true

**Answer:**



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**92.** All of the following statements are true for the hybridisation experiments conducted by Mendel, except

A. Experimented on 14 true breeding pea plant varieties

B. Also worked with hawkweed

C. Experiments were conducted from 1854 to 1861

D. Statistical analysis and mathematical logic were used for the first time in biology

**Answer:**



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**93.** Which of the given is not a test cross?

A.  $Tt \times tt$

B.  $RrYy \times rryy$

C. Pure inflated pod pea plant x constricted pod pea plant

D. Red eyed hybrid female *Drosophila* x white eyed male *Drosophila*

**Answer:**



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**94.** Select the correct match

A. Linkage term - A.H. Sturtevant



B. Chromosomal theory of Inheritance Tschermak

C. Punnett square Reginald C. Punnett

D. Y-chromosome - Henking

**Answer:**

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**95.** A heterozygous round and yellow seeded pea plant was crossed with wrinkled and green seeded pea plant. Considering that the genes for seed shape and seed colour are completely linked, calculate the percentage of plants with round and green seeds

A. 25 %

B. 50 %

C. 0 %

D. 12.5 %

**Answer:**



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**96.** Find out the feature which does not hold true for multiple alleles.

- A. All the alleles occur on same locus of same chromosome or its homologous chromosome.
- B. A gamete receives only one allele of the group
- C. Controls multiple characters in an individual
- D. All the alleles can be detected in a population only

**Answer:**



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97. Choose the odd one w.r.t. characters of pea plants used by Mendel for his experiments

- A. Seed shape
- B. Flower position
- C. Pod colour
- D. Flower symmetry

**Answer:**

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98. A gene which masks the action of another non-allelic gene is a. Is an example of point mutation. b. Is caused by transversion mutation in gene controlling  $\beta$  chain of haemoglobin. c. Involves replacement of amino acid valine by glutamic acid.

A. a & c

B. All a, b & c

C. b & c

D. a & b

**Answer:**



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**99.** Identify the chromosomal disorder on the basis of given features of a male, a. Gynaecomastia, b. Small testes, c. Taller than average height.

A. Turner syndrome

B. Down's syndrome

C. Klinefelter's syndrome

D. Myotonic dystrophy

**Answer:**



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**100.** Mark the incorrect pair

- A. Beard in man- Sex limited trait
- B. Porcupine skin-Holandric trait
- C. Pattern baldness - Sex influenced trait
- D. Thalassemia- Crisscross inheritance

**Answer:**



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**101.** Free ear lobe in humans is an autosomal dominant trait. The recessive individuals show fused ear lobes. A child with fused ear lobes

is born to a couple who have free ear lobes. What is the probability of their next child to be with free ear lobes?

A.  $(1/4)$

B.  $(3/4)$

C.  $(1/2)$

D.  $(1/8)$

**Answer:**



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**102.** *Drosophila melanogaster* was found to be suitable for experiments by T.H. Morgan due to some of its specific features. These features are all, except

A. Easy growth on simple synthetic media in the laboratory

B. Clear differentiation of sexes

C. Absence of linkage

D. Single mating produces large number of progeny

**Answer:**



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**103.** woman with normal vision and albinism marries a man who is colour blind but have normal skin pigmentation. If their son is with normal skin pigmentation and normal vision then what will be the chances of their daughter being colour blind and albinic. [Albinism is recessive autosomal disorder at

A. 100 % or 12.5 %

B. 0 % or 25 %

C. 75 % or 25 %

D. 0 % or 12.5 %

**Answer:**



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**104.** In grasshopper, the male sex in progeny is decided by

- A. Oval with (A+ X) genotype
- B. Sperm with (A + X) genotype
- C. Sperm with (A+ O) genotype
- D. Sperm with (A + Z) genotype

**Answer:**



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**105.** Which of the given characters is controlled by two pairs of genes?

- A. Human skin colour



B. Flower colour in Snapdragon

C. Kernel colour in wheat

D. Flower colour in garden pea

**Answer:**



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**106.** Select the set of parents who can never have a child with *O* blood group  
a.  $B \times AB$  b.  $A \times AB$  c.  $AB \times O$  d.  $A \times B$

A. c&d

B. a & b

C. a & d

D. All except d

**Answer:**



107. Choose the genotype which does not represent a true breeding/pure line.

A. AABB

B. aabb

C. AAbb

D. AABb

Answer:

108. "The sizes of crows and parrots are not very different yet their life spans show wide difference". This suggests that

A. Death of every individual organism is certain

**B. Life spans of organisms are not necessarily correlated with their sizes**

**C. No individual is mortal except single celled organisms**

**D. Life spans of all other organisms fall between the two extremes set by life span of above two organisms**

**Answer:**

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**109. Death of a single cell represents death of an organism. This holds true for**

**A. Apis**

**B. Aphis**

**C. Amoeba**

**D. Apterodytes**

**Answer:**



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**110. Poikilothermic animal with epidermal scales, lacking cutaneous glands and with approximate life span around 140 years is**

**A. Parrot**

**B. Crocodile**

**C. Tortoise**

**D. Elephant**

**Answer:**



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111. Chromosome number in a gamete of *Drosophila* is 4. What is the chromosome number in meiocytes of *Musca*?

A. 8

B. 12

C. 6

D. 24

Answer:



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112. Select the statement/feature that is incorrect w.r.t external fertilisation?

A. Gamete formation and fusion occur in external medium i.e.

water

**B. Organisms involved in external syngamy are generally anamniotes**

**C. Simultaneous release of gametes by male and female increases chances of zygote formation**

**D. Disadvantage involved is susceptibility of gametes to predators and natural calamities**

**Answer:**

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**113. Read the statements given below.**

**a. Clonal members of a population exhibit low adaptability**

**b. After initial supply of yolk has been exhausted, growing individuals such as amphibian tadpole must seek its food from surrounding water**

**c. All mammals retain the developing young one in their body for a much longer time period for protection and nourishment**

d. Life expectancy, a characteristic feature of a species is nearly 67 for humans according to recent survey conducted in India

Choose the correct option.

A. a & b are correct

B. c&d are correct

C. a, b and d are incorrect

D. Only d is incorrect

Answer:

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114. Metestrus and diestrus phases observed in estrous cycle of dogs is comparable to luteal phase of primates. Which hormone is responsible for heat period prior to these phases in animals such as dogs?

A. LH

B. FSH

C. Estrogen

D. Progesterone

**Answer:**



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**115. Physical stimulus of mating triggers pituitary for LH surge resulting in ovulation. This is observed in**

A. Dog

B. Cow

C. Wolf

D. Rabbit



**Answer:**

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**116. Sexual reproduction in animals**

- A. Can be uniparental or biparental**
- B. Ensures rapid multiplication as it's a faster process**
- C. Occurs only under favourable conditions**
- D. Requires formation of gametes but never gamete fusion**

**Answer:**

 [Watch Video Solution](#)

**117. Among the following, multiple fission is seen in all except**

- A. Amoeba**

**B. Paramoecium**

**C. Monocystis**

**D.**

**Answer:**



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**118. In majority of sexually reproducing organisms , the gametes produced are of morphologically two distinct types. They don't differ generally on the basic of**

**A. Motility**

**B. Size**

**C. Chromosome number**

**D. Amount of cytoplasm**

**Answer:**



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**119. If the zona pellucida around human zygote formed in-vitro is intact and zygote has undergone maximum of three cleavage divisions, then it should be transferred into which part of female reproductive tract?**

**A. Cervix**

**B. Vagina**

**C. Uterus**

**D. Fallopian tube**

**Answer:**



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120. How many among the following can be classified as sexually transmitted diseases? [Encephalitis, Vitiligo, Psoriasis, Trichomoniasis, Rheumatoid arthritis, Trichinosis, AIDS]

A. One

B. Two

C. Four

D. Five

Answer:

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121. When did the Medical Termination of Pregnancy Act in India come into existence?

A. 1984

B. 2002

C. 1951

D. 1971

**Answer:**



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**122. Voluntary termination of pregnancy before full term in humans**

**A. Can be considered extremely safe upto first week of third trimester**

**B. Is legal in early part of second trimester depending on health of mother and foetus**

**C. is leading to altered sex ratio such that number of females per 1000 males has exceeded 1005 in India**

D. Cannot involve the use of drugs like mifepristone but compounds like thalidomide are recommended

**Answer:**

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**123. Causative agent for which disease cannot be cultured on artificial medium under laboratory conditions?**

- A. HIV
- B. Virus
- C. bacteria
- D. Both (1) & (2)

**Answer:**

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124. The test-tube baby programme employs which one of the following techniques ?

A. GIFT

B. ZIFT

C. ICSI

D. IUT

Answer:



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125. Technique called tubal ligation/cauterisation in a female

A. Results in decline in estrogen levels

B. Prevents ovulation

C. Involves surgical removal of uterus

**D. Is a terminal method of contraception**

**Answer:**

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**126. Select the correct statement regarding the pill marketed by name 'SAHELI'.**

- A. Its constituents promote formation of conceptus during fertile period**
- B. Ormeloxifene present in it is effective as selective estrogen receptor modulator(SERM)**
- C. It is often called once a day pill during initial three months of consumption**
- D. It was developed by Indian Council of Medical Research, Lucknow**



**Answer:**

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**127. Steroidal contraceptives differ from non-steroidal contraceptive drugs as**

- A. No menstruation occurs on consumption of progesterone only pills**
- B. Hypothalamic-pituitary hormone axis is suppressed**
- C. Endometrial receptivity for implantation is increased**
- D. Positive feedback of progesterone inhibits release of GnRH**

**Answer:**

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128. Read the statements given below,

A) Secondary infertility is applicable to a nulliparous couple as no progeny is produced despite two years of unprotected sexual cohabitation.

B) ICSI involves artificial insemination of semen sample of either husband or donor into ova. Choose the correct option.

A. Statement A is correct

B. Statement B is correct

C. Both statements A and B are correct

D. Both statements A and B are incorrect

Answer:

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129. If the age distribution (percent individuals of a given age) is plotted for the Indian populations, the resultant structure would be shaped like which type of pyramid?

A. Triangular

B. U-shaped

C. Bell

D. Rhombus

Answer:

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130. Multiload 375

A. Is effective for nearly 300 days after insertion and placement is  
vagina

- B. Works by suppressing sperm motility and fertilising capacity of sperms**
- C. Is most widely accepted method of contraception in the world**
- D. Is a hormonal IUD that makes uterus unsuitable for implantation**

**Answer:**

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**131. Read the statements given below and choose the correct option**

- A. Permissible use of the technique amniocentesis in India is for detecting sex of the unborn foetus**
- B. Artificial insemination implies transfer of sperms of a healthy donor to a test tube containing many ova**
- C. Use of 'Nirodh' prevents sperms from reaching cervix**

**D. Generally chances of conception are nil as long as mother breast feeds the young one**

**Answer:**

 **Watch Video Solution**

**132. Select the correct sequence of reproduction events in humans**

- A. Fertilization-Insemination-Gestation-Parturition**
- B. Insemination-Gestation-Implantation-Parturition**
- C. Gametogenesis-Fertilization-Implantation-Parturition**
- D. Gametogenesis-Implantation-Insemination-gestation**

**Answer:**

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133. Which is incorrect regarding human testes?

- A. They are primarily reproductive organ
- B. They are involved in formation of gametes and hormones
- C. They are composite or exclusively exocrine glands as sperms are released through a well developed duct system
- D. They are extra abdominal in position

Answer:



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134. Low temperature is essential for spermatogenesis in mammals. Intra abdominal testes are a feature of all except

- A. Balaenoptera
- B. Omithorhyncus

C. Camelus

D. Elephas

Answer:



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135. Germinal epithelium located in walls of \_\_\_\_\_ undergoes constant divisions to produce spermtagonia. Choose the option that fills the blank correctly.

A. Rete testis

B. Seminiferous tubules

C. Epididymis

D. Vasa efferentia

Answer:



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136. Select the mismatch between the type of cell given in Column I and its corresponding character/function in Column II.

- (a) Interstitial cell-Source of testosterone
- (b) Sertoli cells-Secrete androgen binding protein
- (c) Spermatids-Haploid
- (d) First polar body- Formed prior to birth of baby

- A. Interstitial cell-Source of testosteron
- B. Sertoli cells-Secrete androgen binding protein
- C. Spermatids-Haploid
- D. First polar body- Formed prior to birth of baby

Answer:

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137. Changes in ovary leading to ovarian cycle in primates result from hormones primarily secreted by

- (a) Neurohypophysis
- (b) Placenta
- (c) Posterior pituitary
- (d) Anterior pituitary

A. Neurohypophysis

B. Placenta

C. Posterior pituitary

D. Anterior pituitary

Answer:

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138. Site where release of second polar body in humans occur is

**A. Body cavity**

**B. Uterine cavity**

**C. Fallopian tube**

**D. Ovary**

**Answer:**

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**139. Which extra embryonic membrane acts as shock absorber and prevents dessication of human embryo?**

**A. Chorion**

**B. Amnion**

**C. Trophoblast**

**D. Allantois**

**Answer:**



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**140. The yolk sac of mammalian embryo is derived from**

- A. Endoderm and mesoderm**
- B. Endoderm and mesoderm**
- C. Ectoderm and mesoderm**
- D. Mesoderm and trophoblast**

**Answer:**



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**141. Hormones released exclusively in a pregnant female include**

- A. Estrogen, progesterone, hCS, hPL**

B. hCG,hCS/hPL, relaxin

C. Thyroxin,cortisol,oxytocin,hCG

D. Inhibin,hCG,hPL,prolactin

Answer:

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142. Which of the following sets has structures with similar size?

A. Zygote and morula

B. Ootid and sperm

C. Ova and blastocyst

D. secondary oocyte and polar body

Answer:

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143. Calcium plays an important role in motility of sperm, calcium channels are inserted in sperm membrane

- A. during their storage in ampulla of vas deferens
- B. during capacitation
- C. when they are temporarily stored in epididymis
- D. after acrosomal reaction

Answer:

 [Watch Video Solution](#)

144. Decline in level of mainly which hormone triggers shedding of stratum functionale in uterus of a non pregnant female?

- A. Luteinizing hormone
- B. Progesterone

**C. Estrogen**

**D. Gonadotrophins**

**Answer:**



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**145. Select a feature/function not performed/applicable to placenta or umbilical cord**

**A. Placenta acts as ultra filter and foetal lung**

**B. Permits movement of antibodies such as IgG from foetal to maternal circulation**

**C. All the blood vessels in umbilical cord carry 100% foetal blood only**

**D. Placenta acts as a temporary endocrine gland**

**Answer:**



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**146. Event not associated with follicular phase of ovary is**

- A. Rise in level of gonadotrophin FSH**
- B. Repair of endometrial lining in uterus**
- C. Positive feedback by estrogen in later part of this phase to increase LH levels**
- D. Release of inhibin by granulosa cells**

**Answer:**



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**147. Which of the following is not true for hCG in a pregnant female?**

- A. it is a proteinaceous gonadotrophin but not released from adenohiphophysis
- B. maximum levels of hCG are observed during first trimester
- C. Prega news' a home pregnancy kit developed by Mankind pharmaceuticals relies on detection of hCG in urine
- D. High levels of hCG directly exert negative feedback on hypothalamus leading to amenorrhea during pregnancy

Answer:

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148. Read the given statements and choose the option which assign them as true/false correctly.a)Cleavage in human is slow,asynchronous,rotational,indetermine and holoblastic.b)Day of ovulation is 24th in a woman whose menstrual cycle is of 48days,c) Layer of theca cells makes its earliest appearance at secondary stage



oocyte,d) Mammary glands are apocrine, endocrine glands, whose alveoli synthesize milk under increased levels of estrogen during pregnancy.

A. T,T,F,F

B. T,F,T,F

C. F,F,F,T

D. F,T,T,F

**Answer:**



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149. In India, The Air (Prevention and Control of Pollution) came into force in

A. 1987

B. 1985

C. 1981

D. 1972

**Answer:**



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150. Due to greenhouse effect, the present average temperature of the earth surface is

A.  $deg20$

B.  $deg15$

C.  $deg10$

D.  $deg25$

**Answer:**



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151. All of the following are ex-situ biodiversity conservation strategies, except

- A. Seed banks
- B. Zoological parks
- C. Botanical gardens
- D. National parks

Answer:



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152. Which of the following forms pioneer community in hydrarch succession?

- A. Wolfia
- B. Phytoplanktons

C. Hydnilla

D. Bryophytes

Answer:



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153. Select the correct match from the following.

A. Biogas-Major component is  $H_2$

B. Statins-Trichoderma polysporum

C. Flocs-Masses of bacteria associated

D. Swiss cheese-Penicillium species

Answer:



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154. Totipotency is

- A. The ability of plants to survive in nutrientless soil
- B. The capacity of plants to survive in water stress conditions
- C. Resistivity of plants against insects/pests
- D. The capacity to generate a complete individual from any cell or explant

Answer:



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155. In lac operon, there are three structural genes in which *i* codes for *i* that increases permeability of the cell to B-galactosides. Select the correct option to fill in the blanks (i) & (ii).

- A. (i)-lac y, (ii) - permease
- B. (i) - lac z, (ii) - permease

C. (i)- lac y, (ii) - transacetylase

D. (i)- lac a, (ii)- transacetylase

**Answer:**



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156. A human male produces sperms with genotype AB and AB in equal proportion. The corresponding genotype of that person should be

A. AaBb or Aabb

B. AaBB or AaBb

C. AaBb only

D. AaBB only

**Answer:**



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157. Which of the following abnormalities are developed by an increase in the number of chromosome?

- A. Down's syndrome and Klinefelter's syndrome
- B. Myotonic dystrophy and cystic fibrosis
- C. Klinefelter's syndrome and Turner's syndrome
- D. Down's syndrome and Turner's syndrome

Answer:

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158. The disadvantage of cleistogamy is

- A. Uncertainty of seed formation
- B. Limited genetic diversity
- C. Limited production of pollen grains

**D. Absence of nectaries**

**Answer:**

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**159. How many meiotic divisions are required in a typical flowering plant for the formation of 400 seeds?**

**A. 800**

**B. 200**

**C. 400**

**D. 500**

**Answer:**

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160. Identify the following statements as true (T) or false (F) and select the option accordingly.

A. In a pistil, the proximal end of style is attached to the ovary.

B. Micropyle, chalaza and funicle in an anatropous ovule are in a straight line.

C. Walls of the ovules are called pericarps.

A. A-T,B-T,C-F

B. A-F,B-T,C-T

C. A-T,B-F,C-F

D. A-T,B-F,C-T

Answer:

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161. Offsets in Eichhornia are

**A. Responsible for their vegetative propagation**

**B. Sub-aerial roots**

**C. Aerial roots**

**D. Underground stems responsible for storage of food**

**Answer:**

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**162. The vital link between two successive generations of exually reproducing organisms is**

**A. Gamete mother cell**

**B. Gamete**

**C. Ovum**

**D. Zygote**

**Answer:**



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**163. The plant which shows flowering in both the conditions, 'either they are exposed to a photoperiod shorter than a critical period or longer than the critical period', is**

- A. Wheat**
- B. Soyabean**
- C. Pepper**
- D. Tobacco**

**Answer:**



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164. Which plant growth regulator helps you to make your garden free from dicot weeds?

A. 24-D

B. BAP

C. Abscisic acid

D. Ethylene

Answer:



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165. During which of the following conversions in a living cell, substrate level phosphorylation does not occur?

A. 1,3 bisphosphoglyceric- 3-phosphoglyceric

B. Succinyl CoA-Succinic acid

C. Phosphoenol pyruvate - Pyruvic acid

D. Succinic acid-Fumaric acid

**Answer:**

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166. Dihydroxy acetone phosphate is a common respiratory intermediate metabolite of

A. Amino acids and glycerol

B. Glucose and fatty acids

C. Glycerol and glucose

D. Fatty acids and amino acids

**Answer:**

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167. Photolysis of water does not occur during photosynthesis in

- A. Rhodospirillum
- B. Nostoc
- C. Anabaena
- D. Chlamydomonas

Answer:

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168. The conditions favourable for higher yields of tomatoes are

- A. Low light intensity, 320 ppm  $CO_2$  concentration and 40 – 45°C temperature
- B. High light intensity, 360 ppm  $CO_2$  concentration and 30 – 45°C temperature

C. Low light intensity, 410 ppm  $CO_2$  concentration and 30 – 45°C temperature

D. High light intensity, 450 ppm  $CO_2$  concentration and 20 -25°C temperature

Answer:

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169. Roles of some mineral elements in plants are given below. (a) Helps in anion cation balance in cells. (b) Involves in protein synthesis. (c) Helps in the formation of mitotic spindle (d) Involves in liberation of oxygen from water during photosynthesis. Which of the given role(s) is/are related to chlorine?

A. (d) only

B. (a), (c) & (d)

C. (a) & (d) only

D. (b) & (C)

**Answer:**



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170. Regarding alpha-ketoglutaric acid, which of the following statements is incorrect?

A. It is a raw material for amino acid synthesis

B. It combines with glutamic acid to form aspartic acid

C. It is formed by decarboxylation of oxalosuccinic acid

D. It is a five carbon compound

**Answer:**



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171. The uphill transport of materials in plants occurs through

- A. Simple diffusion only
- B. Facilitated diffusion only
- C. Both simple diffusion and facilitated diffusion
- D. Active transport

Answer:

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172. Choose the correctly matched pair.

- A. Equisetum—Archegoniate ovule
- B. Pinus—Branched stem and needle like leaves
- C. Sequoia—Tallest angiosperm
- D. Marchantia—Heterosporous bryophyte

**Answer:**



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**173. In Volvox and Spirogyra**

**A. Stored food is mannitol**

**B. Gametes have two unequal laterally inserted flagella**

**C. Sporophytic generation is represented only by the single celled  
zygote**

**D. Major pigments are chlorophyll a and chlorophyll d**

**Answer:**



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174. How many of the following structures in plants are responsible for minimising water loss? [Cuticularised epidermis, Hydathodes, Trichomes, Lenticels, Sunken stomata, Bulliform cells]

A. Three

B. Five

C. Four

D. Two

Answer:

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175. Sapwood and secondary cortex are respectively formed by

A. Vascular cambium and phellogen

B. Extrastelar cambium and phelloderm

**C. Cork cambium and phellem**

**D. Cambium of steler region and phelloderm**

**Answer:**

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**176. Select the incorrect statement.**

**A. Staminodes are sterile stamens**

**B. Prop roots in banyan tree are adventitious roots**

**C. Radicle in maize seed is enclosed in coleorrhiza**

**D. Mesocarp and endocarp in mango are fleshy and edible**

**Answer:**

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177. Gynoecium in all of the following medicinal plants have axile placentation, except in

- A. Muliathi
- B. Belladonna
- C. Ashwagandha
- D. Aloe

Answer:

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178. Viruses do not have

- A. dsDNA
- B. Glycocalyx layer
- C. Protein coat

**D. dsRNA**

**Answer:**

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**179. The common characteristic amongst Euglena, Lactobacillus and diatoms is that**

- A. They are photosynthetic**
- B. They are flagellated**
- C. They have cell walls**
- D. They reproduce by binary fission**

**Answer:**

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180. For the production of ATP, bacteria like Nitrobacter and Nitrococcus use the energy which comes from

- A. Oxidation of certain inorganic substances
- B. The solar radiations
- C. Reduction of nitrogenous compounds
- D. Reduction of certain organic compounds

Answer:



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181. Defining features of living organisms are

- A. Consciousness and growth
- B. Cellular organisation and metabolism
- C. Self-consciousness and cellular organisation

## D. Reproduction and consciousness

**Answer:**

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**182. Mango, wheat and brinjal belong to the same**

**A. Division**

**B. Class**

**C. Family**

**D. Order**

**Answer:**

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183. Read the following statements.

(a) During crossing over, exchange of genetic material between sister chromatids occurs.

(b) By the end of diakinesis, nucleolus reappears.

(c) During the stage between telophase 1 and prophase II, chromosomes get elongated. Which of the given statements is/are correct?

A. Only (a) & (b)

B. All (a), (b) & (c)

C. Only (c)

D. Only (b) & (C)

Answer:



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**184. Select the incorrect match from the following.**

- A. Anthocyanin - Water soluble pigment**
- B. Cytoskeleton - Proteinaceous structures**
- C. Chloroplast - Autonomous organelle**
- D. Protoplast - Cell without cell wall**

**Answer:**

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**185. The membraneless organelles in living cells are**

- A. Vacuoles**
- B. Ribosomes**
- C. Glyoxysomes**
- D. Lysosomes**

**Answer:**

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**186. Adaptive radiation can be observed in all cases except**

- A. Marsupial radiation**
- B. Variety of beaks in Darwin's finches**
- C. Placental diversification in North America**
- D. Wing structure of butterfly, bat and bird**

**Answer:**

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**187. Which type of natural selection is illustrated by industrial melanism?**

**A. Directional selection**

**B. Balancing selection**

**C. Disruptive selection**

**D. Stabilising selection**

**Answer:**



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**188. Fossils that represent a hominid who walked erect and had a cranial capacity around 900 c.c**

**A. Homo habilis**

**B. Java man**

**C. Neanderthal man**

**D. Australopithecines**

**Answer:**



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**189. Select the correct statement.**

- A. Cells in a malignant tumor do not show contact inhibition**
- B. Computed tomography scans use non ionising radiations to study cancer of internal organs.**
- C. AIDS is a retroviral disease caused by unenveloped HIV.**
- D. Treatment of AIDS with antiretroviral drugs is completely effective and always prevent death.**

**Answer:**



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**190. Mule is a result of**

- A. Cross breeding**
- B. Out crossing**
- C. Interspecific hybridization**
- D. Inbreeding**

**Answer:**



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**191. Select the term not associated with MOET.**

- A. Artificial insemination**
- B. Increased dose of FSH like hormones in superior cows**
- C. in-vitro fertilisation**
- D. Embryo transfer**

**Answer:**



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**192. Which of the following is a correct match?**

- A. Treponema pallidum - Causative agent of STI Syphilis**
- B. Castration - Emergency contraceptive methods**
- C. GIFT - in-vitro fertilization in surrogate mother**
- D. Saheli - Oral contraceptive, steroid pill developed at CDRI**

**Answer:**



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**193. Which is not a common mode of action between LNG20 and oral pills?**

**A. Inhibition of ovulation**

**B. Suppression of sperm motility and fertilising ability of sperm**

**C. Alteration in quality of cervical mucus**

**D. Inhibition of implantation**

**Answer:**

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**194. Select the correct match w.r.t human reproduction.**

**A. First trimester - First movements of foetus**

**B. Colostrum - Naturally acquired passive immunity**

**C. Morula - Rupture of zona pellucida to facilitate implantation**

**D. Fertilization site - Infundibulum of fallopian tube**

**Answer:**



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195. The term 'birth hormone' is associated with

- A. Oxytocin
- B. Progesterone
- C. Estrogen
- D. FSH

Answer:

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196. The first hormone to peak in secretory phase of menstrual cycle is ('A') while decline in ('B') leads to regression of corpus luteum. Select the option that fill the blanks correctly.

- A. A-Estrogen and B-FSH

**B. A-Progesterone and B-LH**

**C. A-LH and B-Progesterone**

**D. A-Progesterone and B-Estrogen**

**Answer:**

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**197. The most vital event of sexual reproduction is perhaps the fusion of gametes in humans. The process results in formation of**

**A. Haploid embryo**

**B. Haploid foetus**

**C. Diploid two celled zygote**

**D. Diploid unicellular zygote**

**Answer:**



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198. They do not have father and thus cannot have sons, but have grandfather and can have grandsons" 'They' refers to

A. Musca

B. Drosophila

C. Apis

D. Canis

Answer:

199. Nutritionally more balanced human protein (alpha-lactalbumin) enriched milk was obtained from

A. Tracy the sheep

**B. Dolly the clone**

**C. Rosie the cow**

**D. Polly the goat**

**Answer:**



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**200. Example of glyphosate resistant crop available in market is**

**A. Flavr-Savr**

**B. Bt cotton**

**C. Golden rice**

**D. Roundup Ready**

**Answer:**



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201. Downstream processing after a successful run of batch culture does not include which step from options given below?

- A. Separation of the protein product
- B. Purification of the protein product
- C. Expression of the protein in heterologous host
- D. Preservation of desired protein product.

Answer:

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202. Entry of DNA in a competent animal cell is due to the use of which ingredient/condition?

- A. Heat shock at 42°C
- B. Cold treatment at 4°C

C. microinjection

D. gene gun

Answer:



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203. If in a plasmid p<sup>^(BR322)</sup> the sequence 5' GAATTC 3' appears at three sites, how many restriction fragments will result if we use BamHI for restriction digestion?

A. Two

B. Three

C. Four

D. One

Answer:



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204. White muscle fibres differ from red muscle fibres as

- A. Former have actin and myosin as contractile proteins
- B. Latter have troponin as calcium binding proteins
- C. Former are richer in myoglobin than latter
- D. Latter contain plenty of mitochondria for aerobic respiration

Answer:

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205. Select the correct match w.r.t type of joint and its location in humans.

- A. Saddle joint - Between radius and ulna
- B. Gliding joint - Between atlas and axis

C. Hinge joint - Between femur and tibia

D. Fibrous joint - Between adjacent vertebrae in vertebral column.

Answer:

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206. Rhodopsin or visual purple is a derivative of

A. Cyanocobalamine

B. Phylloquinone

C. Thiamine

D. Carotene

Answer:

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## 207. Macroglial cells of central nervous system

- A. Can divide in case of cancer and lead to glioma
- B. Are protected by myelin sheath
- C. Respond to threshold stimulus
- D. Are mesodermal in origin

Answer:

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208. Secondary messengers are required for action on target cells by hormone

- A. Cortisol
- B. Aldosterone
- C. Thyroxine

## D. Adrenaline

**Answer:**

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209. Select the set of hormones which are not synthesized by same gland

- A. Oxytocin and somatocrinin
- B. Prolactin and melatonin
- C. Estrogen and progesterone
- D. Thyroxine and thyrocalcitonin

**Answer:**

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210. Part of nephron lined by simple cuboidal brush bordered epithelium is found in

- A. Loop of Henle
- B. Glomerulus
- C. Proximal convoluted tubule
- D. Collecting duct

Answer:

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211. Select the mismatch regarding the disorder listed.

- A. Diabetes insipidus - Hyposecretion of insulin
- B. Kwashiorkor - Characterised by protein deficiency in children between 1 – 5 years of age.

**C. Heart attack - Sudden damage to heart muscle due to inadequate blood supply**

**D. Asbestosis - Inflammation in lungs leading to proliferation of fibrous tissue**

**Answer:**

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**212. Parameter that remains unchanged during conditions of strenuous exercise in an individual is**

- A. Volume of oxygen delivered by oxygenated blood to tissues.**
- B. Number of lub and dub sounds heard through the stethoscope.**
- C. Partial pressure of oxygen inhaled from atmosphere at sea level**
- D. Frequency of impulse initiation by natural pacemaker.**

**Answer:**



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**213. Read the given statements A: Trauma stimulates the platelets in blood to release clotting factors including calcium. B: Individuals with blood group 'AB' positive are recognized as universal acceptors as their RBCs lack antigens. Select the correct option.**

- A. Statement A is correct while statement B is incorrect**
- B. Both statement A and B are correct**
- C. Both statement A and B are incorrect**
- D. Only statement B is correct**

**Answer:**



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214. In which form is maximum amount of oxygen transported in human blood from lungs?

- A. As bicarbonates
- B. Dissolved in plasma
- C. By binding to WBC
- D. As oxyhemoglobin

Answer:

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215. Increase in acidity of arterial blood

- A. Indicates fall in partial pressure of carbon dioxide
- B. Will shift oxygen dissociation curve to right side
- C. Will not affect chemoreceptors in aortic arch and carotid artery

**D. Increases affinity of hemoglobin with oxygen**

**Answer:**

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**216. Lymph vessels called lacteals help in absorption of**

**A. Micelles**

**B. Chylomicrons**

**C. Fructose**

**D. Glucose**

**Answer:**

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**217. Select the mismatch.**

A. Trypsinogen (Enzyme) Proteoses (Substrate)

B. Carboxypeptidase (Enzyme) Peptones (Substrate)

C. Nucleotidase (Enzyme) Nucleotides (Substrate)

D. Amylase (Enzyme) Starch (Substrate)

Answer:



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218. Select the correct statement w.r.t. *Periplaneta americana*.

A. Paurometabolous metamorphosis is seen with 14-16 moults in nymph

B. Excretion occurs through Malpighian tubules present on junction of foregut and midgut



C. 12 chambered tubular heart is present along with 13 pairs of alary muscles

D. Mushroom gland, phallic gland and anal styles are found in males

Answer:

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219. Sexual dimorphism can be established in *Rana tigrina* based on the presence of all, except

A. Webbed digits in males

B. Vocal sacs in males

C. Copulatory pad in forelimb of male

D. Small size and darker coloration than females.

**Answer:**

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**220. Select the correct statement.**

- A. Muscular tissue found in heart comprises fibres that are uninucleated and involuntary in nature**
- B. Muscle fibers associated with bones are striated and fusiform in appearance**
- C. Gap junctions at intercalated discs help to stop substance from leaking across a tissue**
- D. Endocrine secretions from pancreas include insulin, glucagon and amylase**

**Answer:**

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221. Direct blood supply is absent in

- A. Triceps
- B. Sternum
- C. Myometrium
- D. Epithelium in pharynx

Answer:

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222. Select the correct match.

- A. Insulin - Dipeptide with disulfide bonds
- B. Guanine - Substituted pyrimidine

C. RNA - Phosphodiester bonds

D. Cellulose - Unbranched, storage homopolymer.

**Answer:**

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**223. Activity of a simple enzyme is not affected by**

A. Temperature

B. pH

C. Substrate concentration

D. Presence of cofactor

**Answer:**

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224. The product of hydrolysis of chitin, is a major component of exoskeleton of insects is

- A. Glucose
- B. N-acetyl glucosamine
- C. N-acetyl galactosamine
- D. Pentose type deoxyribose

Answer:

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225. In an enzyme catalyzed reaction, it is possible to reverse the inhibition of a reaction by increasing substrate concentration in which of the following case?

- A. Addition of succinate when malonate inhibits succinate dehydrogenase

**B. Addition of ATP during glycolysis**

**C. Removal of glucose in hexokinase catalysed reaction**

**D. Addition of acetylcholine in case of Myasthenia gravis**

**Answer:**

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**226. Read the characteristics given below.**

**I. Pseudocoelom II. Viviparity III. Moulting Endoparasite that exhibits the above character is**

**A. Fasciola hepatica**

**B. Hirudinaria granulosa**

**C. Trichinella spiralis**

**D. Ascaris lumbricoides**

**Answer:**



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**227. Select the correct match of an animal, its characteristics and taxon**

**A. Horse(Animal)- Even toed mammal, ruminant herbivore with compound stomach(Characteristics)-Perissodactyla(Taxon)**

**B. Aptenodytes(Animal)-Crop and gizzard in alimentary canal, maintains constant body temperature(Characteristics)-Aves(Taxon)**

**C. Ichthyophis(Animal)- Bilateral symmetry, limbless terrestrial worm(Characteristics)-Reptilia(Taxon)**

**D. Cat fish(Animal)-Absence of swim bladder, presence of operculum(Characteristics)-Osteichthyes(Taxon)**

**Answer:**



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**228. Identify the group of animals characterized by presence of viviparity, homeothermy and ear pinnae**

**A. Pisces**

**B. Mammalia**

**C. Reptilia**

**D. Amphibia**

**Answer:**



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**Example**



1. An aquatic plant which is pollinated by water is

A. Water hyacinth

B. Water lily

C. Zostera

D. Salvia

Answer:

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2. An angiospermic plant has the following characteristics. Identify the type of pollination in it. a) The pollen grains are light and non-sticky, b) Presence of feathery stigma, c) Nectaries absent, d) Flowers have well exposed stamens

A. Entomophily

B. Hydrophily

C. Anemophily

D. Ornithophily

Answer:



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3. Select the correct statements about apomitic seeds.a)these seeds are produced from fertilies ovules,b) they contain diploid embryos in diploid plants,c) Zygotic embryo is genetically identical to the apomitic embryo hence two embryos can be called clones

A. only a

B. only a and b

C. only b and c

D. only b

Answer:



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#### 4. Paethenocarpic fruits

- A. develop from fertilised ovary
- B. Are seedless
- C. Are apple and cashewnut
- D. Develop from other parts of fertilised ovary except its wall

Answer:



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#### 5. A typical angiospermic seed consist of all,except

- A. Embryo
- B. Seed coat

C. Endosperm

D. Pericarp

**Answer:**



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**6. Persistent nucellus in the seeds of black pepper is called**

A. Tegmen

B. Endosperm

C. Perisperm

D. Cotyledon

**Answer:**



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7. Autogamy as well as geitonogamy is prevented in

- A. Castor
- B. Maize
- C. Vallisneria
- D. Coconut

Answer:

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8. Select the odd w.r.t. the ploidy level of cells of embryo sac.

- A. Helper cell
- B. Vegetative cell
- C. Central cell containing secondary nucleus
- D. Egg cell

**Answer:**



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**9. Generative cell of pollen grain**

- A. Has large irregularly shaped nucleus**
- B. Is spindle shaped**
- C. Is bigger in size than vegetative cell**
- D. Has abundant food reserve**

**Answer:**



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**10. The outer layer of sporoderm which helps in fossilization of pollen grain is due to**

**A. Cellulose**

**B. Sporopollenin**

**C. Pectin**

**D. Chitin**

**Answer:**



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**11. The innermost layer of anther wall whose cells nourish the developing pollen grains is**

**A. Epidermis**

**B. Endothecium**

**C. Tapetum**

**D. Middle layer**

**Answer:**



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**12. If the chromosome number in a meiotically produced gamete of a plant is 10, then the ploidy level of that plant is**

**A. (n)**

**B. (2n)**

**C. (3n)**

**D. (n+n)**

**Answer:**



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**13. Male gametes require water to reach the female gamete in**



**A. Algae**

**B. Flowering plants**

**C. Bryophytes**

**D. Both (1) and (3)**

**Answer:**



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**14. china rose is**

**A. Bisexual and dioecious**

**B. unisexual and dioecious**

**C. unisexual and monoecious**

**D. bisexual and monoecious**

**Answer:**

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15. Heterogametes are found in

- A. Rhizopus
- B. Ulothrix
- C. Volvox
- D. Cladophora

Answer:

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16. In flowering plants, which of the following structures is present before fertilisation?

- A. Seed

**B. pericarp**

**C. ovule**

**D. Endosperm**

**Answer:**



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**17. Pollen grains are the carrier of male gametes in**

**A. Algae**

**B. Bryophytes**

**C. Angiosperms**

**D. Pteridophytes**

**Answer:**



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**18. Syngamy does not occur outside the body of the organism in**

**A. Algae**

**B. Fishes**

**C. Gymnosperms**

**D. Amphibians**

**Answer:**



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