



BIOLOGY

NEET & AIIMS

MOCK TEST 10

Example

1. Select the incorrect match

A. Phylloclade - Opuntia

B. Cladode - Asparagus

C. Leaf tendril - Vitis

D. Stem tendril - watermelon

Answer: C



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2. Select the mismatch w.r.t. modifications of leaf

A. Leaf tendrils - Sweet pea

B. Leaf spines - Cactus

C. Phyllodes - Aloe

D. Storage organ - Garlic

Answer: C



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3. Which of the following insectivorous plants bear modified leaves and insects?

A. Aloe and Nepanthes

B. Pitcher plant and Acacia

C. Sarracecia - Nepanthes

D. Venus fly trap and Aloe

Answer: C



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4. which of the following modification of stem protects the plant from following animals and reduces transpiration?

A. Phyllodes

B. Thoms

C. Spines

D. Tendrils

Answer: B



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5. Unfoliate leaves are found in

A. Bignonia

B. Marsilea

C. Bombax

D. Citrus

Answer: D



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6. what type of phyllotaxy is found in china rose?

A. superimposed opposite

B. Alternate

C. Whorled

D. Decussate opposite

Answer: B



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7. More than two leaves arise at each node and form a whorl or a circle in

A. Nerium

B. Calotropies

C. Alstonia

D. Both (1) & (3)

Answer: D



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8. Select the correct statement for racemose inflorescence

A. The shoot axis shows definite growth

B. Flowers are borne in basipetal succession

C. Flowers are borne in acropetal succession

D. Older flowers are present towards the apex and younger flowers are present at the base

Answer: C



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9. Match the following (

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A. a(iv), b(v), c(i), d(ii), e(iii)

B. a(i), b(v), c(iii), d(ii), e(iv)

C. a(iii), b(v), c(i), d(ii), e(iv)

D. a(ii), b(v), c(i), d(iii), e(iv)

Answer: C



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10. Verticillaster inflorescence is a cluster of sessile or subsessile flowers borne on a

A. Dichasial cyme ending in a monochasial cyme

B. Scorpioid cyme ending in a monochasial cyme

C. Scorpioid cyme ending in a dichasial cyme

D. Monochasial cyme ending in a dichasial cyme

Answer: A



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11. Select the mismatch

A. Corymb - Capsella

B. Capitulum - Sunflower

C. Cyathium - Salvia

D. Hypanthodium - Ficus

Answer: C



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12. Gall flowers present in between both male and female in hypanthodium cyme, are

A. Bisexual flowers

B. Male flowers

C. Sterile flowers

D. Both (2) & (3)

Answer: C



13. Statement- A: Thalamus is the swollen end of the pedicel of a flower. Statement- B: In Lily, calyx and corolla are not distinct.

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

Answer: B



14. Which of the following whorls of the flower are referred as accessory organs? (a) Androecium (b) Calyx (c) Gynoecium (d) Corolla

A. (a) & (c)

B. (b) & (c)

C. (a) & (d)

D. (b) & (d)

Answer: D



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15. Select the odd plant hypogonous flowers.

A. Mustard

B. Rose

C. China Rose

D. Petunia

Answer: B



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16. Ray floret of sunflower has

- A. No ovary
- B. Superior ovary
- C. Half inferior ovary
- D. Inferior ovary

Answer: D



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17. Match the following w.r.t. aestivation`

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A. a(iv), b(iii), c(ii), d(i)

B. a(iv), b(i), c(ii), d(iii)

C. a(iii), b(i), c(ii), d(iv)

D. a(i), b(iv), c(ii), d(iii)

Answer: B



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18. Aestivation is the mode of arrangement of

A. Androecium or Gynoecium in a floral bud

B. Androecium or Calyx in a floral bud

C. Corolla or Gynoecium in a floral bud

D. Calyx or Corolla in a floral bud

Answer: D



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19. In which of the following flowers, no overlapping between the sepals or petals is observed?

A. Cotton

B. Cassia

C. Calotripies

D. China Rose

Answer: C



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20. In vexillary aestivation, largest petal, two smaller lateral petals and two smallest anterior petals are referred as _____, _____ and _____, respectively.

- A. Wings, keel, standard
- B. Standard, wings, keel
- C. Standard, keel, wings
- D. Keel, standard, wings

Answer: B



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21. Select the incorrect option w.r.t. male reproductive system of a flower.

A. It is third whorl of the flower which arises just inner to the calyx and is composed of stamens.

B. A stamen consists of anther and filament

C. Anthers are usually bilobed

D. Staminode is the sterile stamen

Answer: A



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22. Select the correct option w.r.t. flower with diadelphous stamen

A. Citrus

B. China Rose

C. Pea

D. Lily

Answer: C



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23. Adhesion and cohesion of stamens is observed in ____ and ____ flowers, respectively

- A. Lily and brinjal
- B. Pea and brinjal
- C. China rose and brinjal
- D. Brinjal and pea

Answer: D



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24. In flowers which of the following plants, fused carpels are found?

- A. Rose and Tomato
- B. Mustard and tomato
- C. Mustard and rose
- D. Lotus and rose

Answer: B



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25. In which of the following placentation, false septa is formed?

A. Marginal

B. Free central

C. Axial

D. Parietal

Answer: D



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26. Match the following {

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A. a(iv), b(v), c(ii), d(i), e(iii)

B. a(v), b(iv), c(iii), d(ii), e(i)

C. a(iv), b(v), c(i), d(ii), e(iii)

D. a(iv), b(v), c(ii), d(iii), e(i)

Answer: C



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27. Read the following statements w.r.t. parthenocarpic fruits. (a) Ovary grows into a fruit without fertilization. (b) They are always formed from polycarpellary and apocarpous ovary. (c) They are seedless. (d) Are always true fruits. (e) Banana and grapes are parthenocarpic fruits. Select the incorrect option.

A. All except (b) & (d)

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

C. (d) only

D. (b) & (d)

Answer: D



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28. Select the mismatch option.

A. An etaerio of achenes - Strawberry

B. Hesperidum - Orange

C. Pome - Cucumber

D. Berry - Grapes

Answer: C



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29. Stony endocarp is a feature of

A. Pepo

B. Drupe

C. Pome

D. Berry

Answer: B



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30. Fruit of Mango and coconut develops from

A. Bicarpellary superior ovary

B. Monocarpellary superior ovary

C. Monocarpellary inferior ovary

D. Monocarpellary half inferior ovary

Answer: B



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31. Select the correct option w.r.t. plants bearing ovules which are borne on central axis and lack septa

A. Agremone and mango

B. Dianthus and primrose

C. Tomato and lemon

D. Primrose and marigold

Answer: B



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32. which of the following plants bear flowers with variation in the length of filaments of stamens?

A. Salvia

B. Mustard

C. Lily

D. both (1) & (2)

Answer: D



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33. Syconus fruit found in Ficus develops from

_____ inflorescence

A. Capitulum

B. Hypanthodium

C. Catkin

D. Cyathium

Answer: B



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34. which of the following blood vessels have valves to prevent the backflow of blood?

A. arteries

B. veins

C. capillaries

D. arterioles

Answer: B



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35. tunica media will be absent in the Wall of

A. arteries

B. vena cava

C. capillaries

D. veins

Answer: C



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36. Lymph carried by the _____ is ultimately drained into _____

A. right lymph

B. right subclavian vein

C. left subclavian vein

D. aorta

Answer: C



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37. consider the following statements :

A. high blood pressure affects vital organs

like brain and kidney

B. left ventricle supplies oxygenated blood
to all parts of body except lungs

C. It arteriorosis lumen of arteries that
supplies blood to heart gets narrower
due to deposit of calcium, fat,
cholesterol etc.

D. Angina occurs due to condition that
affect the blood flow reaching the heart
muscle.

Answer: B



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38. how many among the statements mentioned above are correct ?

A. 3

B. 4

C. 1

D. 2

Answer: B



39. which of the following is characterize by complete stoppage of heartbeat?

- A. cardiac arrest
- B. heart failure
- C. heart attack
- D. Angina pectoris

Answer: A



40. hypertension is characterized by

A. increase in systolic pressure beyond 80
mm Hg

B. increase in diastolic pressure beyond 120
mm Hg

C. increase in both systole and diastole
pressure beyond 120 and 80 mm Hg
respectively

D. decrease in both systole and diastole pressures below 80 and 120 mm Hg respectively

Answer: C



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41. find the incorrect match.

A. Angina pectoris - acute chest pain

B. heart failure - heart is not pumping blood effectively to meet the needs of the body

C. heart attack - heart muscles get damaged due to inadequate blood supply

D. myocardial infarction - heart stops beating completely

Answer: D



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42. which of the following is correct w.r.t lymphatic system of human?

A. lymph nodes are site of formation of lymphocytes

B. lymph is devoid of all formed elements which are present in blood

C. both right and left lymphatic duct drain lymph into right subclavian vein

D. lymph transfers material from blood to the body cells and vice versa therefore it acts as a "middle man"

Answer: D



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43. which of the following set of organisms is wrongly categorised as osmoconformers and osmoregulators

A. palaemon(osmoconformers) and human
(osmoregulator)

B. frog (osmoconformer) and hagfish (
osmoregulator)

C. shark (osmoconformer) and lizard (
osmoregulator)

D. Torpedo(osmoconformers) and cow
(osmoregulator)

Answer: B



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44. which of the following statements is correct w.r.t. osmoregulation in Marine environment?

A. entry of excess water in body followed by removal of large quantities of urine

B. excretion of monovalent and divalent ions by ionocytes actively

C. loss of water from the body replenished by drinking sea water and eliminating

monovalent ions actively

D. loss of divalent ions are actively through
ionocytes

Answer: C



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45. which of the following is an incorrect match between organisms and their main excretory product

A. Cray fish (organisms) - Ammonia

(excretory product)

B. human (organisms) - urea (excretory

product)

C. birds(organisms) - uric acid (excretory

product)

D. frog (organisms) - ammonia (excretory

product)

Answer: D



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46. which of the following metabolic waste is removed via orrythin cycle in human

A. NH_2

B. CO_2

C. Uric acid

D. both (1) & (2)

Answer: D



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47. match the excretory products in column I and metabolic reactions during which they are produced in column II and choose the correct option. column I(excretory product) [a. ammonia, b. Guanines, c. creatinine, d. water] column II (metabolic reaction) [(i) carbohydrate metabolism, (ii) breakdown of creatine phosphate, (iii) protein metabolism, (iv) nucleotides metabolism]

A. a(iii), b(iv), c(ii), d(i)

B. a(iii), b(iv), c(i), d(ii)

C. a(i), b(ii), c(iii), d(iv)

D. a(ii), b(i), c(iv), d(iii)

Answer: A



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48. in humans kidneys are situated between A vertebra and peritoneal cavity is present only on their B side. A and B in the above mentioned statements are:

A. $A - T_5 \rightarrow T_{12}$, $B - ventral$

B. $A - T_{12} \rightarrow L_2$, $B - d$ or sal

C. $A - T_{12} \rightarrow L_2$, $B - ventral$

D. $A - L_1 \rightarrow L_5$, $B - d$ or sal

Answer: C



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49. extensions of cortex between the medullary pyramids of kidney and known as

A. columns of Bellini

B. Ducts of Bellini

C. Major calyces

D. renal papilla

Answer: A



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50. select the incorrect statement regarding human excretory system

A. urothelium forms the internal lining of urinary bladder

B. neck region of urinary bladder processes two sphincters, involuntary internal sphincter and voluntary external sphincter

C. in both male and female urethra acts as urinogenital duct

D. kidneys are retroperitoneal in position

Answer: C



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51. detrusor muscles are present mainly in

A. coat of kidney

B. muscular coat of urinary bladder

C. renal fascia of kidney

D. cortex of kidney

Answer: B



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52. which of the following is an incorrect match regarding organisms, they are mood of excretion and their respective structure involve significantly in removal of nitrogenous excretory waste?

A. cockroaches (organism),
uricotelism(mode of excretion),
malpighiam tubules (structure involved
in nitrogenous waste removal)

B. prawns(organism), Ammonotelism
(mode of excretion), green glands
(structure involved in nitrogenous waste
removal)

C. Bony fishes (organism), ureotelism
(mode of excretion) , kidneys (structure
involving nitrogenous waste removal)

D. human (organism), ureotelism (mode of
excretion), kidney (structure in was a
nitrogenous waste removal)

Answer: C



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53. how many renal corpuscles are approximately present in each kidney of human

- A. one million
- B. two million
- C. three million
- D. four million

Answer: A



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54. which of the following set includes the correct location of different parts of cortical nephron inside kidney?

A. cortex (malpighiam corpuscles), cortex (PCT), medula (DCT), medula (loop of Henie)

B. cortex (malpighiam corpuscles), medula (PCT), medula (DCT), medula (loop of Henie)

C. medula (Malpighiam corpuscles), medula (PCT), cortex(DCT), cortex (loop of Henie)

D. cortex (Malpighiam corpuscles), cortex (PCT), cortex (DCT), medula (loop of Henie)

Answer: D



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55. select the correct option: a. Giomanutus is a a tuft of capillaries formed by the afferent articles which is a fine branch of renal vein b. Giomerulus along with the bowman's capsule forms renal corpuscle c. Vasa recta is a find branch of afferent arteriole which runs parallel to Henie's loop d. in human kidney, cortical nephron and juxtamedullary nephrons are in equal proportion

A. a and b are correct

B. b and c are correct

C. a, b and d are correct

D. a and d are correct

Answer: B



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56. which of the following cannot be considered as a difference between conical and juxtamedullary nephrons?

A. length of the loop of Henie

B. presence or absence of Vasa recta

C. presence or absence of renal corpuscle

D. degree of extension of loop of Henie in
medulla

Answer: C



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57. podocytes are

A. epithelial cells and bowman's capsule

B. modified smooth muscles fibres of DCT

C. modified smooth muscles fibres of PCT

D. epithelial cells

Answer: A



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