

Biology Model Question Paper - 5

Question 1 : More men suffer from colour blindness than women because

- (A) women are more resistant to disease than men
- (B) the male sex hormone testosterone cause the disease
- (C) the colour blind gene is carried on the 'Y' chromosome
- (D) men are hemizygous and one defective gene is enough to make them colour blind

Answer: (D)

Question 2 : Mitotic stages are not observed in _____.

- (A) Cosmarium
- (B) E.coli
- (C) Saccharomyces
- (D) Chlorella

Answer: (B)

Question 3 : Mendel found that the reciprocal crosses yielded identical results. From that he concluded that _____.

- (A) sex plays a role in deciding the dominance of a trait.
- (B) there is independent assortment of traits.
- (C) sex has no influence on the dominance of traits.
- (D) there is no dominance of any trait.

Answer: (C)

Question 4 : Meissner's corpuscles occur in

- (A) Brain
- (B) Nerve cells
- (C) Skin
- (D) Tongue

Answer: (C)

Question 5 : Match the types of the fruits listed in Column I, with the examples listed on Column II.

Choose the answer which gives the correct combination of alphabets of the two columns.

Column – I

Column – II

A. Capsule

p. Paddy

B. Berry

q. Mango

C. Drupe

r. Sunflower

D. Cypsela

s. Tomato

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t. Ladies finger

- (A) A = t, B = s, C = q, D = r
- (B) A = t, B = r, C = p, D = q
- (C) A = s, B = t, C = q, D = r
- (D) A = p, B = q, C = r, D = t

Answer: (A)

Question 6 : Match the types of immunity listed in Column I with the examples listed in Column II.

Choose the answer that gives the correct combination of alphabets of the two columns :

Column I	Column II
Types of immunity	Example
A. Natural active	p. Immunity developed by heredity
B. Artificial passive	q. From mother to foetus through placenta
C. Artificial active	r. Injection of antiserum to travellers
D. Natural passive	s. Fighting infections naturally
	t. Induced by vaccination

- (A) A = t, B = s, C = r, D = p
- (B) A = s, B = t, C = q, D = r
- (C) A = s, B = r, C = t, D = q
- (D) A = p, B = q, C = r, D = t

Answer: (C)

Question 7 : Match the names of the economically important plants (or their products) listed in Column-I with the families to which they belong given in column-II. Choose the answer which gives the correct combination of alphabets of the two columns :

Column - I	Column - II
A. Sunflower	p. Acanthaceae
B. Tulsi	q. Compositae
C. Coffee	r. Labiatae
D. Vasaka	s. Rubiaceae
	t. Euphorbiaceae

- (A) A = q, B = r, C = s, D = p
- (B) A = q, B = s, C = p, D = t
- (C) A = s, B = r, C = p, D = q
- (D) A = r, B = t, C = s, D = q

Answer: (A)

Question 8 : Match the compounds given in column-I with the number of carbon atoms present in them which are listed under column-II. Choose the answer which gives the correct combination of alphabets of the two columns.

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Column - I

- A. Oxaloacetate
- B. Phosphoglyceraldehyde
- C. Isocitrate
- D. a-Ketoglutarate

Column - II

- p. 6 - C compound
- q. 5 - C compound
- r. 4 - C compound
- s. 3 - C compound
- t. 2 - C compound

- (A) A = r, B = s, C = p, D = q
- (B) A = r, B = t, C = p, D = q
- (C) A = q, B = s, C = p, D = t
- (D) A = s, B = t, C = q, D = r

Answer: (A)

Question 9 : Match the animals listed in Column I with their of nature of blood listed in Column II.

Choose the answer which gives the correct combination of alphabets of the two columns.

Column I

Column II

- | | |
|--------------|--|
| A. Man | p. Plasma and cells are colourless |
| B. Earthworm | q. Plasma is colourless and nucleated RBC |
| C. Cockroach | r. Plasma is colourless and enucleated RBC |
| D. Frog | s. Plasma is red and nucleated, colourless RBC |
| | t. Plasma and RBC have hemoglobin. |

- (A) A = s, B = t, C = r, D = q
- (B) A = r, B = s, C = p, D = q
- (C) A = t, B = r, C = p, D = s
- (D) A = p, B = s, C = q, D=r

Answer: (D)

Question 10 : Mannitol is

- (A) Amino Acid
- (B) Amino alcohol
- (C) Sugar alcohol
- (D) Sugar acid

Answer: (C)

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Question 11 : Longest phase of meiosis

- (A) Prophase I
- (B) Prophase II
- (C) Anaphase I
- (D) Metaphase II

Answer: (A)

Question 12 : If the systolic pressure is 120 mm Hg and diastolic pressure is 80 mm Hg, the pulse pressure is _____.

- (A) $120 + 80 = 200\text{mmHg}$
- (B) $120 \times 80 = 9600\text{mmHg}$
- (C) $120/80 = \text{mmHg}$
- (D) $120 - 80 = 40\text{mmHg}$

Answer: (D)

Question 13 : If the person shows the production of interferons in his body, chances are that he is suffering from

- (A) Malaria
- (B) Measles
- (C) Tetanus
- (D) Anthrax

Answer: (B)

Question 14 : Kupffer's cells are

- (A) Phagocytic
- (B) Actin
- (C) Myosin
- (D) Fibrin

Answer: (A)

Question 15 : Inulin is a polymer of

- (A) Glucose
- (B) Galactose
- (C) Fructose
- (D) Arabinose

Answer: (C)

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