



BIOLOGY

BOOKS - HT Olympiad Previous Year Paper

NSO QUESTION PAPER 2020-21 SET A

Science

1. Read the given statements and select the correct option.

Statement 1 : Cotton plant is usually grown in the places having black soil and warm climate.

Statement 2 : Cotton fibres are separated from the seeds by the process of spinning.

A. Both statements 1 and 2 are correct and statement 2 is the correct explanation of statement 1

B. Both statements 1 and 2 are correct but statement 2 is not the correct explanation of statement 1

C. Statement 1 is correct but statement 2 is incorrect.

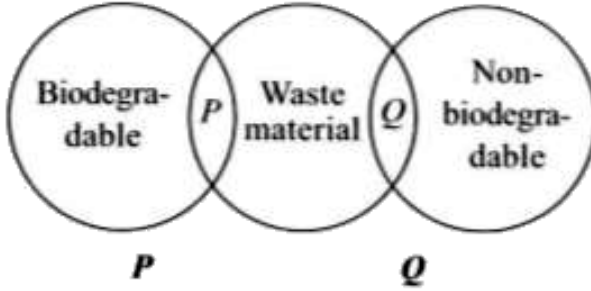
D. Both statements 1 and 2 are incorrect.

Answer: C



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2. Refer to the given Venn diagram and select the incorrect option.



- A. Glass bottle Cotton shirt
 B. Rotten vegetable Plastic container
 C. Bird droppings Aluminium can
 D. Jute bag Steel spoon

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3. Refer to the given table and select the incorrect statement.

Animal	Can swim	Can breathe through gills	Body covered with feathers
<i>X</i>	✓	✓	✗
<i>Y</i>	✓	✗	✓
<i>Z</i>	✗	✗	✓

A. X could be an animal whose body is covered with scales.

B. Y could be an animal that breathes through blowholes.

C. Z could be an animal that has hollow bones to make its body light.

D. Body of animals X, Y and Z could be streamlined.

Answer: B



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4. Reena took some moong seeds and soaked them overnight in water, Next day, after draining out the water, she wrapped the seeds in a wet cloth. After one day, she observed small white structures growing out of the seeds. These small white structures will develop into_____.

A. Stems

B. Leaves

C. Roots

D. Flowers

Answer: C



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5. Read the given statements and select the correct ones.

(i) Hemp fibres are obtained from the leaves of its plant.

(ii) Examples of bast fibres are jute, hemp and sisal.

Silk cotton is obtained from silky hair that surround the seeds of kapok trees.

(iv) Wool on burning gives the smell of burning hair.

A. (i),(iii) and (iv) only

B. (ii),(iii) and (iv) only

C. (iii) and (iv) only

D. (i),(ii) and (iii) only

Answer: C



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6. Refer to the given statements and select the option that correctly fills the blanks in any two of them.

(i) Stamens form the _____ reproductive part of a plant.

(ii) Roots absorb water and _____ from the soil.

(iii) Pea plant has _____ flowers.

(iv) _____ is a short stalk that attaches leaf to the stem.

A. (i)-Female : (ii)-Minerals

B. (ii)-Starch , (iii)-Incomplete

C. (iii)-Complete : (iv)-Style

D. (i)-Male , (iv)-Petiole

Answer: D



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7. Match column I with column II and select the correct option from the codes given below.

Column I	Column II
(i) Ginning	(a) Disentangling of the cleaned fibres
(ii) Retting	(b) Rotting of the stem to soften the tissue
(iii) Carding	(c) Bolls
(iv) Seed pods	(d) Cotton fibres after being separated from seeds
(v) Lint	(e) Separating fibres from seeds

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

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

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

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

Answer: A



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8. Select the incorrect statement.

A. Salmon migrates from freshwater to sea
for breeding

B. Arctic tern travels the longest migration
route by an animal.

C. Seasonal mass movement of animals
from one place to another is called
migration

D. Chameleon changes colour of its skin to blend with the surroundings.

Answer: A



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9. Select the incorrect match

	Plant		Reproduces by
A.	Fern	–	Spores
B.	<i>Dahlia</i>	–	Stem
C.	<i>Bryophyllum</i>	–	Leaf
D.	<i>Tapioca</i>	–	Root



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10. Refer to the different sources of water given below.

(i) Tube well (ii) River

(iii) Ocean (iv) Well

(v) Pond

Which of the following options shows the correct number of surface water sources (P) and groundwater sources (Q)?

A. $\begin{matrix} P & Q \\ 4 & 2 \end{matrix}$

B. $\begin{matrix} P & Q \\ 3 & 3 \end{matrix}$

C. P Q
2 4

D. P Q
1 5

Answer: A



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11. Which of the following parts of the eye is incorrectly matched with its function?

A. Iris - Controls the amount of light entering the eye.

B. Pupil - Light enters the eye through it.

C. Cornea - An image of an object seen is formed on it.

D. Eyelid - Protects eye from dust, flies, rain, etc.

Answer: C



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12. Which of the following types of rocks is also known as natural glass?

A. Gneiss

B. Obsidian

C. Basalt

D. Granite

Answer: B



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13. Unseramble the given set of letters to get a type of material

U B R E R B

Which of the following cannot be made using this material ?

- A. Truck tyres
- B. Incandescent light bulb
- C. Eraser
- D. Hose pipe

Answer: B



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Achievers Section

1. Read the given statements (i)-(v) and select the option that correctly identifies them as true (T) and false (F) ones.

(i) Red meat and butter are rich in saturated fats whereas vegetable oils are rich in unsaturated fats.

(ii) Iron is needed for formation of haemoglobin and its main sources are green leafy vegetables and beetroot.

(iii) Water soluble vitamins are not stored in the body and must be supplied through food.

(iv) Protein molecules are formed by a large number of smaller molecules called fatty acids.

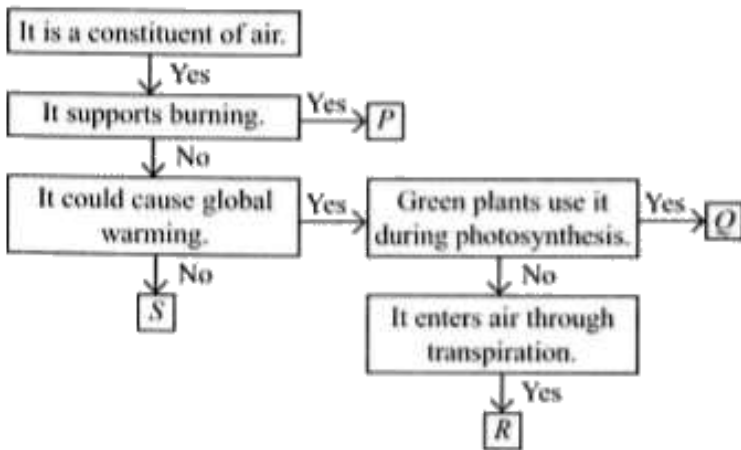
(v) Deficiency of vitamin B_1 causes night blindness.

	(i)	(ii)	(iii)	(iv)	(v)
A.	T	F	T	F	T
B.	T	T	T	F	F
C.	T	F	F	T	T
D.	T	T	F	T	T



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2. Refer to the given flow chart and select the incorrect statement regarding P, O, R and S.



A. Presence of R in air is important for the occurrence of water cycle in nature.

B. P could be a gas that is a by-product of photosynthesis done by plants.

C. q could be a gas that is used in fire extinguishers.

D. S forms 0.03% of the air in the Earth's atmosphere.

Answer: D



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3. Refer to the given table and select the correct option regarding P, Q, R and S.

Plant part	Functions	Examples of plants
(i) Stem	(a) Photosynthesis (b) Support for climbing	<i>P</i> <i>Q</i>
(ii) Leaf	(a) Reduction in water loss (b) Support for climbing	<i>R</i> <i>S</i>

A. P could be Opuntia whereas Q could be pea.

B. R could be Hibiscus whereas S could be pumpkin.

C. P could be rose whereas R could be mango.

D. Q could be grapevine whereas S could be pea.

Answer: D



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