IGCSE Biology

Paper 2

Unsolved Topical

Past Papers with Marking Schemes

All Variants

2014-2021

Title IGCSE TOPICAL BIOLOGY PAPER 2

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Legal Advisor Ashir Najeeb Khan (Advocate)

AKBAR LAW CHAMBERS

39-40, $\mathbf{1}^{\mathrm{st}}$ Floor, Sadiq Plaza, The Mall, Lahore.

0307-4299886, 042-36314839

For Complaints/Order MS Books

83-B Ghalib Market Gulberg III Lahore

info@msbooks.pk

(042-35774780, 03334504507, 03334548651)

PREFACE

Excellence in learning cannot be claimed without application of concepts in a dexterous way. In this regard one of the logical approach is to start in chunks; like chapter wise learning and

applying the concept on exam based questions.

This booklet provides an opportunity to candidates to practice topic wise questions from

previous years to the latest. Extensive working of Team MS Books has tried to take this

booklet to perfection by collaborating with top of the line teachers.

We have added answer key / marks scheme at the end of each topic for the candidate to

compare the his/her answer to the best.

MS Books strives to maintain actual spacing between consecutive questions and within

options as per CAIE format which gives students a more realistic feel of attempting question.

Review, feedback and contribution in this booklet by various competent teachers of a subject

belonging to renowned school chains make it most valuable resource and tool for both

teachers and students.

With all belief in strength of this resource material I can confidently claim that it is worth in

achieving brilliance.

Our sincere thanks and gratification to Mr. Muhammad Shahid who took out special time to

help compile and manage this booklet. We would also like to appreciate chemistry faculty for

reviewing and indorsing it.

REVIEWED & RECOMMENDED BY

Muhammad Shahid

SLC (Liberty Campus) 0334-4463339

Sadia Khalid

LACAS, SICA SIPIRT ACADEMY

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CHARACTERISTICS AND CLASSIFICATION OF LIVING ORGANISMS

M/J/14/12/Q1

1 Growth is a characteristic feature of living organisms.

Which process provides the energy for growth?

A excretion B movement C respiration D sensitivity

M/J/14/12/Q2

2 The table shows the number of animals collected in a sample from some woodland and the groups to which they belong.

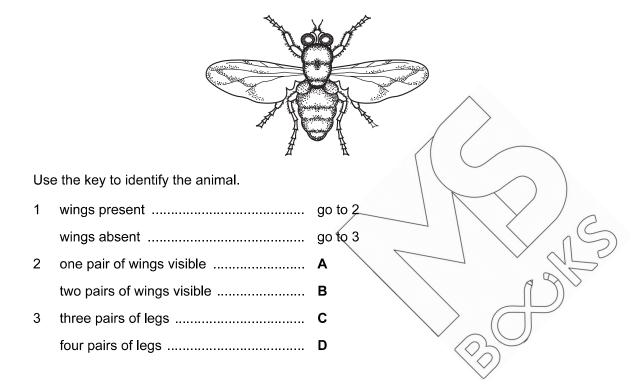
animal group	number in sample			
annelids	8			
arachnids	10			
insects	80			
molluscs	40			
myriapods	7			
nematodes	15			

How many arthropods were collected?

A 33 **B** 97 **C** 120 **D** 160

M/J/14/12/Q4

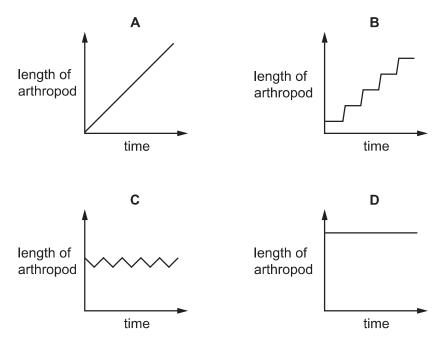
3 The diagram shows an animal.



P2-TOPIC # 1 CHARACTERISTICS AND CLASSIFICATION OF LIVING ORGANISMS QUESTIONS

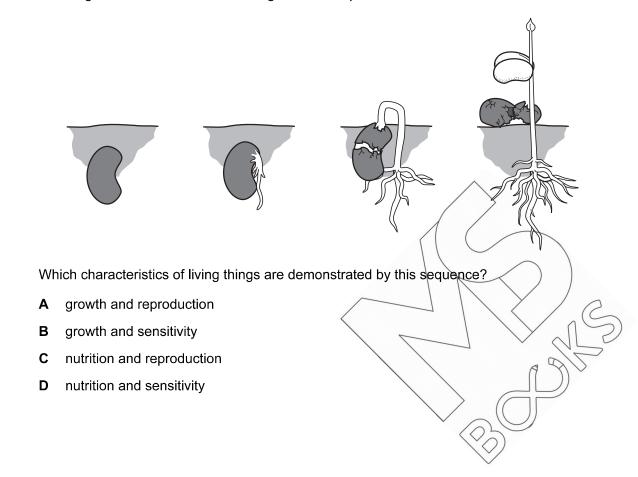
M/J/14/12/Q27 M/J/08/01/Q29

4 In arthropods, growth occurs only after the exoskeleton is shed and before the new one hardens. Which graph shows a typical growth curve for an arthropod?



O/N/14/12/Q1 O/N/14/11/Q1

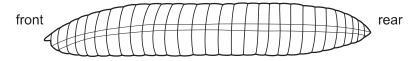
5 The diagram shows how a seed changes after it is planted in well-watered soil.



P2-TOPIC # 1 CHARACTERISTICS AND CLASSIFICATION OF LIVING ORGANISMS QUESTIONS

O/N/14/12/Q2 O/N/14/11/Q2

6 The diagram shows the body plan of an invertebrate animal.

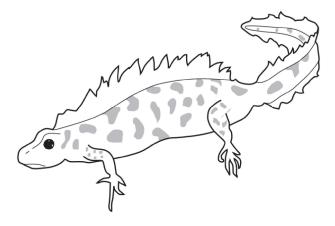


To which group does the animal belong?

- A annelid C insect
- B crustacean D nematode

O/N/14/12/Q4 O/N/14/11/Q3

7 The diagram shows an animal.



Use the key to identify the animal.

- 1 front limbs with five fingers go to 2
 - front limbs with four fingers go to 3
- 2 skin with spots A
 - skin without spots B
- 3 tail with fins C
- tail without fins D

M/J/15/11/Q2

- 8 What is a correct way of naming a species, according to the binomial system?
 - A Homo sapiens

C human being

B Homo Sapiens

D sapiens

P2-TOPIC # 1 CHARACTERISTICS AND CLASSIFICATION OF LIVING ORGANISMS QUESTIONS

M/J/15/11/Q4

9 The key can be used to distinguish between four different chemical substances.

Use the key to identify which substance could be a protein.

1	contains the element carbon	 go to 2

does not contain carbon A

2 contains the element nitrogen B

does not contain nitrogen go to 3

3 gives a positive result with Benedict's test C

gives a negative result with Benedict's test D

M/J/15/11/Q29

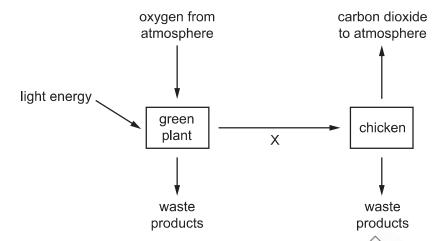
10 Development is defined as an increase in

A complexity. C number of cells.

B dry mass. **D** size.

M/J/15/12/Q1 M/J/15/11/Q1

11 The diagram illustrates some of the processes carried out by living organisms.



Which characteristic of living organisms is represented by arrow X?

A excretion B nutrition C respiration D sensitivity

M/J/15/12/Q2

12 The statements describe four different plants.

Which plant must be a monocotyledon?

- **A** The flowers are wind-pollinated.
- **B** The flowers each have five petals.
- C The leaves are large with a clear network of veins on them.
- **D** The leaves have parallel veins.

ANSWER KEYS

Qs#	Key	Qs#	Key	Qs#	Key	Qs#	Key
1	С	21	Α	41	С	61	D
2	В	22	C	42	C	62	В
3	Α	23	O	43	O	63	D
4	В	24	В	44	D	64	O
5	В	25	D	45	В	65	D
6	Α	26	С	46	С	66	В
7	С	27	В	47	В	67	D
8	Α	28	Δ	48	D	68	O
9	В	29	Α	49	Α		
10	Α	30	В	50	O		
11	В	31	Δ	51	D		
12	D	32	Α	52	В		
13	В	33	В	53	D		
14	С	34	C	54	Α		
15	В	35	Δ	55	Α		
16	В	36	Δ	56	В		
17	В	37	В	57	В		
18	В	38	D	58	В		
19	С	39	В	59	D		
20	D	40	В	60	В		

