Cooperative Hunting Behaviour	Marks
Explains the term cooperative hunting	3
Predatory animals hunting prey [1]	
Working together with other members of the same species [1]	
Individuals typically have roles to play in the hunt [1]	
Explains the costs and benefits of cooperative hunting	4
Benefit - Increases success rate of the hunt, reduced individual energy expenditure, take larger	
prey [2]	
Costs – reduced energy intake through sharing prey, individuals may choose to cheat. [2]	
Explains the cooperative hunting strategy	4
- Wolves - Intimidate, Chase, Isolate. [3]	
OR	
- Lions - Stealth approach, fast attack (kill if possible), drive to ambush [3]	
Explains the role of the individual in the hunt	9
Lions - Answers may include:	
- Wings who circle the flanks of the prey, prevent escape and channel prey towards ambush. [3]	
- Centres who approach as close as possible before attacking, will kill if possible, otherwise chase	
[3]	
- Ambush awaits prey to be driven towards them, will join the chase if necessary. [3]	
OR	
Wolves - Answers may include:	9
- Younger wolves flank the outside, intimidating prey items, harrowing the herd. [3]	
- Faster individuals chase/harrow the herd, trying to split the herd into smaller	
groups/individuals/young animals. [3]	
- Larger individuals attempt to bite the legs, throat and snout of the isolated prey item to bring it	
down. [3]	
Compares and Lions or Gray Wolves to an additional species	4
Research Notes	6
Research notes relate to the question being answered [2]	
Research notes are summarised, large sections not copied verbatim [2]	
Length of research notes – number of pages. [2]	
References	6
One mark per website referenced in the notes [6]	
APA Formatting	3
½ mark for each reference in APA format. [3]	
TOTAL	39
Symbiosis	Marks
Explains the term symbiotic relationship:	4
Close biological interaction between two separate species. [1]	
Symbiotic relationships can be facultative (do not need to associate all the time) or obligate	
(depend on each other for survival) [2]	
Examples of symbiotic relationships — mutualism, commensalism, parasitism, predation. [1]	
Defines the terms parasitism, commensalism, mutualism and predation:	4
Mutualism – interaction where each individual in the relationship benefits [1]	

Predation – interaction where one individual gains nutrients at the expense of the others life. [1]	
Parasitism – interaction where one individual gains nutrients at the expense of the other, often	
without killing the host. [1]	
Commensalism – interaction where one individual benefits and the other is not affected. [1]	
Compares similarities between predation and parasitism:	2
In each interaction one individual benefits, the other is harmed/killed [2]	
Contrasts between predation and parasitism	2
Predation kills one of the individuals; parasitism keeps the host alive (in most cases). [2]	
Compares similarities between commensalism and mutualism:	2
No net loss for any individual, at least one individual in both interaction benefits. [2]	
Contrasts between commensalism and mutualism:	2
Mutualism benefits both individuals. One individual is unaffected neither harmed or benefited in	
commensalism [2]	
Describes an example for commensalism	2
Provides and describes an example of commensalism [2]	
Describes an example for mutualism	2
Provides and describes an example of mutualism [2]	
Describes an example of predation	2
Provides and describes an example of predation [2]	
Describes an example of parasitism	2
Provides and describes an example of parasitism [2]	
Research Notes:	6
Research notes relate to the question being answered [2]	
Research notes are summarised, large sections not copied verbatim [2]	
Length of research notes – number of pages. [2]	
References:	6
One mark per website referenced in the notes [6]	
APA Formatting	3
½ mark for each reference in APA format. [3]	
TOTAL	39