

10. An animal will exhibit behaviour that maximises -----fitness. (A) reproductive (B) survival (C) genetic (D) physiological	1	1	3
11. The final song that the song bird members produce is known as a ----- song. (A) crystallised (B) mating (C) mature (D) juvenile	1	1	3
12. The cockroach's movement towards dark hiding places indicates ----- (A) negative phototaxis (B) positive phototaxis (C) negative geotaxis (D) positive geotaxis	1	1	3
13. ----- signal is long-lasting and works at night. (A) Olfactory (B) Auditory (C) Light (D) Kinetic	1	1	4
14. The type of training that causes specifically trained dogs to salivate when they hear bells is ----- conditioning. (A) classical (B) non-classical (C) operand (D) appetite	1	1	4
15. Feeding behaviour with a high energy intake-to-expenditure ratio is called ----- (A) optimal foraging (B) sub-optimal foraging (C) supra-optimal foraging (D) efficient foraging	1	1	4
16. In the territorial behaviour of stickleback fish, the red belly of one male elicits attack from another male by functioning as a ----- (A) sign stimulus (B) bait (C) threatening object (D) intimidating object	1	1	4
17. Which is one way an endothermic animal can respond to being cold ? (A) Shivering (B) Panting (C) Sweating (D) Shedding	1	1	5
18. Which of the following is a learned behaviour ? (A) Dog sitting when told to (B) Turtle hatchling crawling (C) Whale migrating (D) Peacock courting	1	2	5
19. The behaviour of young ducks following their mother is known as ----- (A) imprinting (B) mimicking (C) imitation (D) parental behaviour	1	1	5
20. The daily cycle of activity that occurs in 24-hour period is ----- (A) circadian rhythm (B) lunar rhythm (C) solar rhythm (D) quarterly rhythm	1	1	5

PART - B (5 × 4 = 20 Marks)

Answer **any 5** Questions

	Marks	BL	CO
21. Write a note on "individual learning" with a suitable example.	4	2	1
22. Define the term "local enhancement" with an appropriate example.	4	2	1
23. Write a short note on the phenomenon of social facilitation.	4	2	2
24. Write a note on oblique transmission with a suitable example.	4	2	2
25. Define the term social grooming.	4	2	3
26. Write a brief account on migration in monarch butterflies.	4	2	4
27. Write a note on fight or flight response.	4	2	5

PART - C (5 × 12 = 60 Marks)

Answer all Questions

		Marks	BL	CO
28.	(a) Write a detailed account on Pavlovian conditioning with suitable examples. (OR) (b) Write an essay on different types of learning behaviour in animals.	12	2	1
29.	(a) Write a detailed account on Grant's finches and bird-song evolution. (OR) (b) Write an essay on imitation and copying behaviour in animals.	12	2	2
30.	(a) Write a detailed account on family dynamics with the concept of inclusive fitness. (OR) (b) Write an essay on kinship, kin selection and kin recognition.	12	2	3
31.	(a) Write a detailed account on different types of communication observed in animals. (OR) (b) Write an essay on cooperative behaviour and coalition behaviour.	12	2	4
32.	(a) Write a detailed account on play behaviour with suitable examples. (OR) (b) Write a detailed essay on aggression and aggressive interactions.	12	2	5

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