Table 3. Comparative Account of Integument and Exoskeleton in Vertebrate Animal Types.

	FISH	AMPHIBIA	REPTILIA	AVES	MAMMALIA			
Characters	Dogfish (Scoliodon)	Frog (Rana)	Lizard (Uromastix)	Pigeon (Columba)	Rabbit (Oryctolagus)			
A.INTEGUMENT								
1. Skin surface & attachment	Skin hard, rough, rigid, leathery and firmly attached to body.	slimy, smooth, fit- ting loosely on	rough, and loosely folded along the sides of neck and	attached to achieve	elastic and loosely			
2. Colouration	don is dark, grey dorsally and pale white ventrally. Fishes in general show greatest colour patterns and brilliance amongst chordates.	green with black and brown patches above and lighter pale-yellow below.	with dark spots above, and lighter and paler below. In reptiles in general color patterns elaborate for warning or concealment.	slaty-grey with green and purple sheen around neck and breast and 2 black bars on each wing. Birds in general are beautifully coloured.	protective. Mam- mals, in general,			
3. Colour change	not change. Some	camouflage and can change body colour	power to change colour. However,		Usually, no capacity to change body colouration.			
4. Pigmentation	Pigment containing chromato- phores and guanin containing irido- phores located in dermis.	Chromatophores located in dermis.	Chromatophores located in dermis.		Pigment granules located in hairs and epidermis, pigment cells in dermis.			
5. Cutaneous respiration	sensory. Not permeable to wa-	Skin protective and permeable to water, hence serves as an organ of respiration.	and water-proof, without cutaneous		insulating and wa-			
6. Epidermis	layered or strati- fied, but simple, thin and without a cornified stratum	stratified epider- mis with a thin stratum corneum of	fied with a rela- tively thicker stratum corneum periodically shed in	fied, relatively thinner, and sea- sonally shed and replaced.	Epidermis greatly stratified. Stratum corneum highly specialized with several modifications. No regular moulting.			

Characters	Dogfish (Scoliodon)	Frog (Rana)	Lizard (Uromastix)	Pigeon (Columba)	Rabbit (Oryctolagus)
7. Epidermal glands	Epidermis con- tains numerous unicellular mucus- secreting goblet gland cells. Mul- ticellular poison glands and lumi- nescent glands or photophores also occur in some fishes.	mucous glands. Some amphibians have poison glands like parotid glands	Male lizard has fémoral glands on thighs. Some	except a single large preen or uropygial gland on	characteristic ma- mmary, sweat and sebaceous glands
8. Dermis	Dermis is typical	typical. It consists of an outer loose layer or stratum	typical, containing connective tissue fibres, muscle and nerves, blood capillaries and	made of muscle fibres, nerves, blood capillaries and connective tissue. It has no pig-	cate fibres, tactile organs, nerves,
9. Dermal scales	Dermal scales are present as placoid scales.	absent in frog, although embedded in the skin of some Gymnophiona.	Dermal scales absent in <i>Uromastix</i> , but dermal scales, scutes or plates, called osteoderms, occur in some lizards, crocodilians and turtles.	absent in birds.	Dermal scales or plates occur only in armadillos and whales.