

Question 32

a) i) mammary glands can be used to classify humans as mammals.

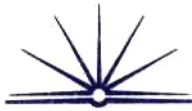
ii) two structural differences:

Homo sapiens ^{has a} ~~is~~ more upright stance than Australopithecus
afarensis.

Homo sapiens has a broader and larger skull than Australopithecus
afarensis*

bi) I would gather information about the use of radiometric data to date material collected from a fossil site, from scientific books, or scientific research sites from the internet

ii) To assess that the information was reliable and relevant I'd look for examples where this form of dating data had been used previously and compare its findings to ~~other~~ other paleontological evidence and study.



c) The evolutionary significance of having a stout thick build in the colder climates is there is less heat loss therefore more heat is conserved. This helps humans like eskimos to withstand the ^{extremes} ~~extremities~~ of cold. This advantage expressed in the phenotype is an example of having many forms, polymorphism.

D.	Prosimians	monkeys	apes	Humans.
	prehensile tail,	no ^{tail} - prehensile tail	Body covering of	Body covering
	Small brain	own - no prehensile tail	fur, Suckle	of fur, large
	case,	nostrils facing	young on milk	brain case,
		more inward and	opposable thumb,	upright stance
		forward, smaller	5 prelimbs to	(bipedal walk)
		brain case, opposa-	longer than	stereoscopic,
		ble thumb	hind limbs.	bipedal vision
			no tail.	opposable thumb

Hand/foot structure and vision.

The Hand/foot structure is used so that primates are able to hold onto objects and make it easier for them eg by holding onto a branch on a tree or a glass cup. By having an opposable thumb it makes things easier to grip onto, and to hold.

By having binocular binocular, stereoscopic vision, and having eyes that face forward it is easier for primates

to see objects, and ~~also~~ also to judge distances more easily. ~~The~~

These were compared to the characteristics of the other species and primates were found to be able to see better and to hold onto certain objects better.

(e) human biological evolution

I think that the main factor affecting human biological evolution is technology and ability to do anything. Today the technology has dramatically improved and we use many things to survive. With introduction of cloning I believe that in hundred years this could be introduced to humans. ~~rather than~~ ^{human} ~~rather than~~

Although many people don't like the idea of cloning this might just be the thing hapening in 100 years. With cloning would come immunisation for many deseases and genetically modefiing humans to make them more resistant the environment. It has been already introduced that know parents can chose the sex of the baby also the look and colour of eyes, hair etc.

Although those things are not jet introduced, they have been done &

sucesfull. If this happens in next 100 year we are looking at people who will be cloned, more superiour and beutiful (if parents can chose the sex and phy. apperance) It would be a complite turn over from the natural and biological factors.

Everything that has happened in the past deseases eg Down Syndrome or tlemophilia could be changed during Pregnancy.

Also we are going to change, there are already machines that supliment organs and other things in the body. Also the organ transplants ~~could be~~ will be done from animals. eg. have a Pigs ~~liver~~ liver, Also artificial blood will become more popular.