Did you know?		Islam on evolution	198
What is a light-year?	22	Poikilotherms and homeotherms	200
The deadly Sun	34	Relation between rib cage and care	204
How trivial we are!	35	Wet nose?	206
The four seasons	41	How animal could stand on feet?	212
Distance of moon from the Earth	42	Modes of locomotion	212
Days become longer	42	Cockroaches and beetles	214
Why bombardment?	47	Sea level variations	215
Why no oceans in other planets?	48	Either run or breathe!	217
Water and life from outer space?	49	Teeth differentiation	218
Formation of the Earth	55	Why the name "mammals"?	229
What is virus?	56	Prototheria?	229
North changes to South?	58	Why we do not fall?	235
The world under the seas	61	Ears have another organ!	237
Which was first?	66	Up there, does oxygen decrease?	240
Why no life in Venus and Mars?	74	The first placental?	240
Life in outer space	74	Why placenta appeared?	252
Body cavities	92	The biggest cell?	259
How soil was formed?	98	Locomotion in primates	283
Fresh waters of the Earth	128	What about twins?	288
Why bacteria didn't get big?	130	Son? Or daughter?	288
Blue skies, blue oceans	130	Future is not bright	291
Visible spectrum	132	The wild animals?	297
How gills work?	134	Hair? Or wool?	311
Monster of the seas	141	When Man lost his body hair?	329
Biggest eats tiniest	141	Why Man lost his body hair?	329
How fish floats?	149	Why hair on the head remained?	332
Why oceans are saline?	152	Relation between respiration and longevity	347
Fishes and fins	153	The interbreeding enigma	349
Do fish have teeth?	153	Whites? Blacks?	350
Blood salinity in fish and humans	154	Number of Homo species	358
Stenohaline and euryhaline	160	We are relatives!	358
Spiracles: Respiratory or auditory?	164	Please eat us!	366
Do fish have ears?	164	Levantine corridor	374
Tetrapods and quadrupeds	183	Man or horse: Who wins a footrace?	377
Two types of respiration	189	Modern ancestors of humankind?	387
Protein structure	191	Before Homo sapiens?	389
The tale of two brothers	195	Humankind's oldest relief?	391
Big things have small beginnings	195	Basics are the same	400

Cosmology		Psychology	335
Fundamental forces of nature	23	Linguistics	369
Discovery of atom structure	24	-	
On universe	25		
The universe is expanding	26	Nature's unbelievable figures	
Formation of the Big Bang theory	28	Wonders of atom	24
Before the Big Bang, what was there?	28	10 to the power of what?	25
Size of the universe	29	The life-giving Sun	33
The Milky Way	31	Number of organisms	128
Movement is the essence of the universe	35	Weight of organisms	216
The Earth: Center of the universe	43	·	
		Catastrophe or miracle?	
Basic definitions		Giant impact	41
Physics	23	Great Oxygenation Event	63
Quantum physics	24	Snowball Earth	83
Science	30	What was this extinction?	122
Astronomy	32	The day life died	200
Philosophy	34	The day dinosaurs died	266
Chemistry	47	The biggest volcanic eruption	375
Geology-1	54		
Biology-1	56		
Physical geography-1	58	On the nature of life	
Physical geography-2	60	Where did we come from?	45
Petrology	82	Molecules of life	48
Geology-2	83	Last Universal Common Ancestor	49
Biology-2	84	Major biogeochemical cycles	54
Biology-3	87	The food chain	57
Biology-4	98	Symbiosis	65
Genetics	104	Structure of the cell	66
Geology-3	123	The cell city	66
Geography-1	145	The 3 domains of life: Differences	67
Biochemistry	151	Currency of life	129
Biology-5	186	Metabolism	146
Biology-6	187	Evolution's solutions	151
Geography-2	194	Reproduction	190
Biology-7	246	Evolution of reproduction modes	193
Geography-3	249	Mineralized tissues	214
Geography-4	284	Collagen	215

2 solutions	238	Evolution and the world of science	
Evolution of reproduction	252	Continental drift	61
Programmed cell death	255	Evolution Theory?	100
Mitosis: Cell division	257	Step by step: From cell to DNA	105
Meiosis: Germ cell division	280	Are dates correct?	110
Modes of nutrition	280	Actual number of species?	157
Locomotion in animals	283	Human Genome Project	167
Chromosomal crossover and chance	287	Why fruit fly?	168
		Which is correct?	296
		Darwin's missing link	336
Organisms		Homo species	378
Bacteria	53		
Archaea	56		
Plants	69	Great leaps of evolution	
Fungi	72	Cyanobacterium is a superman	63
Sponges	73	How the eukaryotic cell was formed?	64
Choanoflagellates	74	Why sexes?	70
Radiates	86	Birth of the Metazoa	75
Protostomes	93	Are we upside-down animals?	109
Echinoderms	97	Significance of the vertebral column	135
A living fossil	102	What did jaws do?	144
Tunicates	104	Formation of the second palate	204
Invertebrates	111	Brain gets bigger	206
Worms	112	From egg to placenta	246
Cyclostomes	141		
Sharks	150		
Vertebrates	157	Earth reserves	
Coelacanth	160	Formation of iron ore	63
Lungfish	164	Formation of limestone	125
Fishes	171	Formation of coal	196
Amphibians	184	Formation of petroleum and natural gas	259
Reptiles	189		
Monotremes	230		
Marsupials	232	Taxonomy	
Dinosaurs	242	Taxonomy terminology	68
Mammals	258	From protocell to animal	76
Birds	267	Clade	111
Mammals which returned to sea	272	From sponges to chordates	113
Primates	295	Animal phyla	171

From chordates to tetrapods	172	The story of the brain	
From tetrapods to mammals	222	Neurons	84
From mammals to primates	260	Formation of the brain	127
Primate classification	279	Brain	244
From primates to homos	301	Neocortex	314
From homos to Homo sapiens	359	Brain size	322
		Jaws power and brain size	334
		Maturity of brain	341
Modes of evolution		Sleep	346
Convergent evolution	69	Brain growth: A review	354
The humankind tree	90	Which parts of the brain got big?	366
Evolution of nutrition and respiration modes	147	Age of humans?	383
What is evolution?	170	Cultural mind	387
How life forms appear?	172	To the grace of others	395
Evolution is not linear	197		
Jaws and ears!	221		
Evolution and environment	250	Organogenesis	
Living underground modifies mammals	252	Fundamental cell types	87
Reproduction modes and evolution	271	Embryogenesis	88
Oceanic dispersal	276	Gastrulation	88
Heredity	299	Primary germ layers	88
2 facts	308	Coelom	91
Mutation	312	Organogenesis	94
Mutation too is by chance	313	HOX genes	280
Natural selection	319		
Only natural selection?	321		
Sexual selection	335	DNA and genes	
Mutation, evolutionary deadend, extinction	342	DNA and RNA: Chemistry	93
Evolutionary deadend	343	DNA and RNA: Structure	93
Last common ancestor	343	DNA and RNA: Biochemistry	95
Speciation	346	Genes and genome	160
Radiation: Evolutionary and adaptive	348	Number of genes in humans	168
Evolution: Tree or bush?	352	Protein	190
What is evolution?	356	Protein synthesis	192
Humankind was born just by chance	357	Role of RNA	192
Has evolution ended?	372	Chromatin, chromatid, chromosome	245
Insular gigantism, insular dwarfism	381	Gene expression and DNA replication	260

Gene regulatory switches	276	Eyelids	258
How new genes are born?	290	Sweat	328
Last universal common ancestor	296	Eyelashes	345
Gene duplication	321	Eyebrows	349
The genes which made humans human	356	Chin	368
Adam and Eve?	370		
Secret of life was written only once	275		
		Fossil stories	
		What do fossils tell us?	109
ormation of organs		How a fossil is formed?	166
Blood	96	Ancestors and descendants	241
Skin-1	97	Teeth fossils	275
Blood vessels	98	Forensic anthropology	364
Notochord	102		
Flesh	102		
Tail in the animal world	103	Geography of the Earth	
Skull	126	Formation of mountains	136
Eyes	131	Formation of rivers	137
Vertebral column	134	Formation of saline lakes	144
Heart-1	142	Formation of freshwater lakes	145
Jaws	143	Where was Iran?	248
Liver	143	The most ancient lands	255
Skin-2	158	Great African Rift Valley	285
Kidneys	158		
Nose-1	163		
Neck	179	Animal, tree, Homo	
Limbs	179	Evolution of binocular vision	256
Lungs	180	Nails appear	257
Tongue	183	Birth of opposable thumbs	260
Skin-3	191	Formation of lips	269
Nose-2	208	Grooming begins	270
Voice	210	Evolution of eye sockets	272
Teeth	211	Sexual dimorphism appears	275
Thoracic diaphragm	218	Formation of fingerprint	277
Heart-2	230	Color vision appears	279
Hair (wool)	231		
Milk	231		
Ears	233	Building humans	
External testes	247	Why bipedalism?	294
LAterral testes	Z 1 1	vviiy bipedalisiii:	257

Foramen magnum Stone tools Bipedalism and skeletal changes When fire was tamed Impact of cooking Long childhood Reation between longevity and body size	299 318 324 330 332 341 344
Human characteristics	
Cry and laughter	344
Friendship, empathy, sympathy	353
Conquering the World How the world was won? Why Homo sapiens changed their habitat? Climate changes	365 268 373
How humans moved to new lands?	282
Early expansion of Homos	383
Were humans alone?	386
End of the world	393
Birth of speech	000
Communication	366
Speech organs Formation and evolution of speech organs	367 369
Evolutionary pressure	370
Mystery of sclera	371
Birth of speech	391
Human races?	392
The Aryans	394
Persian language	396