

1

Amazing Animals

1. Match the following.

- | | |
|------------------------|----------------|
| (a) Narwhal | Whale |
| (b) Marco Polo | Sheep |
| (c) Bottlenose Dolphin | Longest memory |
| (d) Sloth | Slowest animal |
| (e) Takin | Goat antelope |

2. State whether the following statements are true or false.

- | | |
|-----------|-----------|
| (a) False | (d) False |
| (b) False | (e) True |
| (c) True | |

3. Explain the term.

Endangered species: An endangered species is a species of wild animal or plant that is in danger of extinction.

4. Why should we protect wildlife? Give reasons.

We should protect wildlife because:

- (a) It maintains a healthy ecological balance on the earth.
- (b) Wildlife is a pool of nutrients and determines the rate and extent of nutrient distribution.

6. Can you identify the following animals?

- (a) Komodo Dragon
- (b) Kouprey
- (c) Meerkat
- (d) Hoatzin

7. Read the given clues and complete the name of the mammals.

- (a) OTTER
- (b) SCAVENGERS
- (c) MARSUPIALS
- (d) PANGOLIN
- (e) BONOBO

2

Unique Plants

1. Name the following plants.

- (a) Coco-de-mer tree
- (b) Old Man Cactus
- (c) Mandrake tree
- (d) Rafflesia
- (e) Hunter Orchid

2. Match the following.

- (a) Pitcher plant — Insectivorous
- (b) Carrot — Adventitious roots
- (c) Cactus — Desert plant
- (d) Mangrove trees — Modified root
- (e) Ginger — Modified stem

3. Explain the term camouflage.

Camouflage is a type of pattern that helps an animal blend in with the colour of its surroundings. It is common among invertebrates, including some species of octopus and squid, along with a variety of other animals. Camouflage is often used by prey as a way to disguise themselves from predators.

4. Give reason.

Because as per scientists the tree's roots go very deep and wide to get water from the reserves of water.

5. State whether the following statements are true or false.

- (a) False (c) False
(b) True (d) False

6. Names of eight fruits are hidden in the given word grid. Search and shade the words.

M	A	T	O	M	A	T	O	R	P	W	S	Q	D
B	P	B	A	C	V	T	Y	D	N	S	R	G	P
A	P	O	M	O	L	O	G	Y	N	V	F	D	S
N	L	X	Y	C	T	U	V	W	K	I	W	I	O
A	E	D	F	P	R	S	T	V	E	Q	L	M	N
N	A	P	E	A	C	H	E	S	G	H	R	D	U
A	V	R	A	P	R	A	S	P	B	E	R	R	Y
L	E	U	P	V	M	N	U	K	L	P	S	D	R
G	S	C	U	R	D	P	X	L	N	M	A	D	U
H	P	I	N	E	A	P	P	L	E	I	G	K	L
M	R	P	U	V	S	T	V	B	N	D	A	X	V
L	T	U	V	N	M	R	D	X	W	Y	T	D	S
P	T	C	U	C	U	M	B	E	R	C	V	W	F
O	P	L	M	D	F	G	H	J	K	O	C	V	G



7. Fill in the blanks below using the names of fruits searched and shaded by you in the above exercise.

(a) Banana

(d) Tomato

(b) Raspberry

(e) Kiwi

(c) Apple

3

Elements of Human Body

1. Explain the term Neurotransmitter.

Neurotransmitter: A chemical that is released from a nerve cell which thereby transmits an impulse from a nerve cell to another nerve, muscle, organ, or other tissue.

2. Match the following.

- (a) Carbon — 18%
- (b) Sulphur — 0.25%
- (c) Trace elements — 0.7%
- (d) Hydrogen — 10%
- (e) Phosphorus — 1%
- (f) Oxygen — 65%

3. Is excess of elements good for our body?

No, because it can increase the risk of developing new diseases in the body.

4. State whether the following statements are true or false.

- (a) True
- (b) False
- (c) False
- (d) False

(e) True (f) False

5. Which element in our body is required for following functions?

- (a) Oxygen (d) Phosphorus
(b) Hydrogen (e) Potassium
(c) Calcium (f) Sodium

6. Write the chemical symbol of the following elements.

- (a) Oxygen – O
(b) Potassium – K
(c) Chlorine – Cl
(d) Iron – Fe
(e) Hydrogen – H
(f) Magnesium – Mg
(g) Carbon – C
(h) Nitrogen – N
(i) Sulphur – S
(j) Strontium – Sr

7. Name a deficiency disease caused by the lack of each of the following elements.

- (a) Iron – Anaemia
(b) Calcium – Osteoporosis, Rickets

- (c) Iodine – Goitre
- (d) Zinc – Chronic kidney disease
- (e) Oxygen – Lung diseases
- (f) Sodium – kidney failure, heart failure
- (g) Magnesium – Diabetes

8. Find the names of 10 elements hidden in this word grid.

P	O	T	A	S	S	I	U	M	A	P	H	W
H	J	K	A	Z	D	C	B	A	Y	V	Y	X
O	I	O	D	I	N	E	O	G	T	U	D	Q
S	N	I	T	R	O	G	E	N	R	T	R	C
P	G	F	F	M	E	N	S	E	S	S	O	H
H	E	G	H	Y	V	C	U	S	R	O	G	L
O	X	Y	G	E	N	A	Q	I	P	D	E	O
R	Y	J	I	H	W	R	O	R	V	I	N	R
U	Z	I	N	C	J	B	N	O	U	U	T	I
S	A	P	K	L	M	O	Z	N	Y	M	S	N
B	C	D	E	C	B	N	A	M	X	R	Q	E
C	A	L	C	I	U	M	D	N	O	P	L	W

4

Genes and Diseases

1. Fill in the blanks using correct words.

- (a) Genes
- (b) Parkinson's
- (c) can
- (d) mitochondria
- (e) smallpox

2. Define the term Pathogens.

Pathogens: A pathogen is a tiny living organism, such as a bacterium or virus that makes people sick.

3. White blood cells not only fight against diseases but may also lead to certain diseases. Give reasons.

A high white blood cell count isn't a specific disease, but it can indicate other problems such as infection, stress, inflammation, trauma, allergy, or certain diseases.

4. Solve the crossword puzzle using the clues given below.

- | | |
|-----------|------------|
| 1. Skull | 3. Ribcage |
| 2. Throat | 4. Goitre |

5. Femur

7. Oesophagus

6. Heart

8. Bronchi

5. Different diseases affect different parts of our body. Using the help box, name the diseases which affect the following parts of our body.

(a) Asthma

(g) Arthritis

(b) Dermatitis

(h) Diabetes

(c) Typhoid

(i) AIDS

(d) Pyorrhoea

(j) Goitre

(e) Jaundice

(k) Paralysis

(f) Tuberculosis

6. There are many alternative methods, originating in different parts of the world and known by the different names, for curing diseases. Fill in the blanks to complete the names of these methods.

(a) UNANI

(g) ACUPRESSURE

(b) HOMEOPATHY

(h) ALLOPATHY

(c) AYURVEDA

(d) NATUROPATHY

(e) REIKI

(f) ACUPUNCTURE

5

Famous Mathematicians

1. Read the questions and tick (✓) the correct options.

- (a) Euclid
- (b) Archimedes
- (c) Albert Einstein
- (d) Alan Turing
- (e) Brahmagupta

2. State whether the following statements are true or false.

- (a) T
- (b) F
- (c) F
- (d) T
- (e) F

3. Solve the crossword puzzle.

- 1. GEOMETRY
- 2. ATOMIC
- 3. BABBAGE
- 4. CALCULUS
- 5. ARYABHATA
- 6. TURING

4. Find the words in the crossword with the help of given clues.

1. Nobel

4. Platonic

2. Indian

5. Triangles

3. Archimedes

N	U	V	X	L	B	K	A	N	M	A	Q	L	I	S
W	X	A	P	W	F	J	C	D	S	B	M	H	E	L
U	M	A	I	H	V	F	T	X	P	U	K	D	C	U
B	N	P	C	T	Y	K	D	N	G	I	E	W	J	M
P	K	Z	L	W	R	W	T	J	W	M	B	R	S	G
K	P	W	F	A	A	I	Y	A	I	C	L	D	A	W
G	O	D	P	L	T	N	A	H	C	A	X	B	X	T
U	I	H	Q	W	Y	O	C	N	J	D	J	Z	Z	O
Z	N	X	P	C	J	R	N	S	G	C	G	Z	Q	K
P	D	C	X	R	A	C	O	I	U	L	T	A	O	N
H	I	F	K	F	O	N	B	P	C	N	E	M	D	N
K	A	T	P	U	L	S	E	B	K	J	M	S	Z	L
J	N	Q	N	E	J	O	L	T	X	V	Y	I	B	N
V	Q	A	I	U	O	T	N	E	O	Y	W	P	I	G
B	I	R	L	Z	F	Q	J	T	J	H	O	I	P	P

5. Match the following.

b, e, a, c, d

6

Must-Read Books

1. Complete the table given below.

Book Name	Author name	Lead Character
<i>Harry Potter and the Philosopher's Stone</i>	J. K. Rowling	Harry Potter, A young wizard
<i>The Secret Garden</i>	Frances Hodgson Burnett	Mary Lennox, Colin Craven, Dickon Sowerby, Archibald Craven
<i>Alice's Adventures in Wonderland</i>	Lewis Carroll	Alice, A white Rabbit
<i>The Lion, the Witch and the Wardrobe</i>	C. S. Lewis	Peter, Susan, Edmund, and Lucy

2. Given below are some literary treasures. Read the clues and write the names of the books.

- Arthashastra*
- Torah*
- Beowulf*
- One thousand and one nights*

(e) *On the Revolutions of the Heavenly Spheres*

(f) *The Prince*

3. Read the descriptions and name the Indian authors.

(a) Salman Rushdie

(b) Amrita Pritam

(c) Bankim Chandra Chattopadhyay

(d) R. K. Narayan

(e) Anita Desai

(f) Rabindranath Tagore

4. Given below are the names of some evergreen and inspiring autobiographies of different personalities across the globe. Name the authors of these autobiographies.

(a) *Moonwalk* – Michael Jackson

(b) *Playing to Win* – Saina Nehwal

(c) *Straight From the Heart* – Kapil Dev

(d) *Return to the Earth* – Wayne Warga

(e) *Daughter of the East* – Benazir Bhutto

(f) *The Downing Street Years* – Margaret Thatcher

(g) *I Know Why the Caged
Birds Sing* – Maya Angelou

(h) *Dreams From My Father* – Barack Obama

- (i) *De Profundis* – Oscar Wilde
 (j) *Playing it My Way* – Sachin Tendulkar

5. Find names of eight Indian authors in the given word grid.

A	R	U	N	D	H	A	T	I	R	O	Y	A	V	S
R	U	S	K	I	N	B	O	N	D	E	C	B	I	A
V	H	K	V	I	K	R	A	M	S	E	T	H	F	L
I	L	M	J	I	R	W	T	U	V	D	E	G	R	M
N	I	R	A	D	C	H	A	U	D	H	U	R	I	A
D	N	O	P	Q	X	S	Y	Z	A	L	M	D	M	N
A	K	I	R	A	N	D	E	S	A	I	B	C	E	R
D	Y	X	W	V	E	K	J	O	N	G	E	F	C	U
I	Z	A	B	U	C	D	V	I	H	W	U	T	T	S
G	J	H	U	M	P	A	L	A	H	I	R	I	H	H
A	F	G	H	T	S	R	P	Q	O	D	Q	R	S	D
I	A	M	I	T	A	V	G	H	O	S	H	X	Y	I
K	J	M	L	N	H	G	E	D	C	B	F	A	Z	E

7

Music

1. Write the full names of the Sapta Swaras or seven notes.

- (a) Sa – Shadjama
- (b) Re – Rishabha
- (c) Ga – Gandhara
- (d) Ma – Madhyama
- (e) Pa – Panchama
- (f) Dha – Dhaivata
- (g) Ni – Nishada

2. Identify the following great Indian musicians.

- (a) Jasraj
- (c) A.R. Rahman
- (b) M. S. Subbulakshmi
- (d) Bhimsen Joshi

3. Read the descriptions of the famous rock bands and identify their names using the hint box.

- (a) Coldplay
- (d) Parikrama
- (b) Indian Ocean
- (e) Green Day
- (c) The Beatles
- (f) Pink Floyd

4. Explain in your own words.

- (a) **Dhrupad** - Dhrupad is an ancient singing style of Indian classical music that depicts the mood of peace, spiritualism and heroism. This style is generally played on Pakhawaj.
- (b) **Khayal** - Khayal is an imaginative style of singing where an artist conveys his emotions with the aid of alaap and taan. It is generally played on Tabla.
- (c) **Jhumri** - Jhumri is fully expressive form which requires a particular temperament. More emphasis is given on feelings and beauty in few words.

5. List five effects of music on brain.

- (a) Music makes us forget we're tired
- (b) Listening to music releases dopamine in the brain
- (c) Improves sleep and relaxation
- (d) Creates a feeling of well-being and positive emotions
- (e) Background music stimulates creativity

8

Microorganisms

1. Match the following.

- (a) Trichophyton Rubrum – Causes Ringworm
- (b) Penicillium – Is a fungus
- (c) Tuberculosis – Is caused by Mycobacterium
- (d) Rhizobium – Lives in the roots of plants
- (e) German measles – Is caused by Rubella

2. Explain the term.

Decomposition - When a living organism dies, microorganisms act on its body and break it down into tiny pieces. These pieces become part of the soil. This process is known as decomposition.

3. Give reasons.

Life on Earth is impossible without microorganisms. Do you agree with the statement? Give reasons.

It's generally agreed that life on this planet would not be possible if there were no microorganisms. Microbes play a critical role in our bodies and plants. They are also the key components of the vaccines

that prevent the spread of once- deadly disease like small pox.

4. State whether the following statements are true or false.

- (a) False
- (b) False
- (c) False
- (d) False
- (e) True

5. Read the questions and tick (✓) the correct option.

- a. Virus
- b. Bacteria
- c. Protozoa
- d. Cyanobacteria
- e. Vibrio cholera

6. Write down the names of the fungi, using the help box.

- a. Mushroom
- b. Ringworm
- c. Truffle
- d. Gills
- e. Fermentation

9

Amazing English

1. Complete the sentences using correct oxymoron from the hint box.

- (a) copies
- (b) clearly
- (c) only choice
- (d) tragic comedy
- (e) true

2. Match the name of sound with its meaning.

- (a) Swoosh – The sound made by a sudden rush of air or liquid
- (b) Giggle – Laughing lightly from amusement or nervousness
- (c) Splatter – A sound made by the splashing of liquid
- (d) Chirp – A short, sharp, high pitched sound made by small birds
- (e) Clink – A sharp sound made by striking metal or glass

3. Match the following anagrams.

- (a) Bud – Dub
- (b) Garden – Danger
- (c) Leaf – Flea
- (d) Roots – Torso
- (e) Vine – Vein

4. Explain the term 'Personification'.

Personification means attributing human characteristics to something that is not human.

5. Complete the sentences using correct oxymorons from the hint box.

- (a) let the cat out of the bag
- (b) you can't judge a book by its cover
- (c) costs an arm and a leg
- (d) when pigs fly
- (e) missed the boat

6. Some new and unusual words have been included in the English dictionary recently. Their meanings are given. Find the words from the hint box.

- (a) Retail Elephant
- (b) Nomophobia
- (c) Flexitarian
- (d) Worrywart
- (e) Multiplex
- (f) Tech Savvy
- (g) Freegan

10

The Constitution of India

1. Read the questions and tick (✓) the correct option.

- (a) 284
- (b) 26 January 1949
- (c) Prem Behari Narain Raizada
- (d) Tranquillity
- (e) Library

2. Match the following.

- (a) Sovereign — Every citizen has equal opportunity to earn a livelihood
- (b) Socialist — People of India are free
- (c) Secular — Citizens will have the right to follow any religion they choose
- (d) Republic — Leaders of the country will be elected by the citizens
- (e) Democratic — All citizens above the age of 18 can vote and elect leaders

3. State whether the following statements are true or false.

- (a) True
- (b) False

(c) False

(e.) False

(d) True

4. Answer the following in one or two lines.

1. The constitution of India came into effect on 26th January, 1950.
2. There were 284 members of the Constituent Assembly who signed the constitution of India.
3. The Constitution of India is primarily modelled on the British rules.
4. The national emblem of India is an adaptation of the Lion Capital of Ashoka.
5. We, the people', which starts off the Preamble of the Constitution of India, was inspired from the Constitution of the United States of America.

5. Solve the crossword puzzle.

Across

1. Ambedkar
5. Motto
6. signed

Down

2. Monaco
3. English
4. India

11

Quotes from Around the World

1. Write down the names of authors of these famous quotes.

- (a) Lucius Annaeus Seneca
- (b) George Bernard Shaw
- (c) Lord Acton
- (d) P.B. Shelly
- (e) Franklin D. Roosevelt
- (f) Abraham Lincoln
- (g) Plato

2. Match the author with the quotations.

Jonathan Swift – Vision is the art of seeing things invisible.

Lucius Annaeus Seneca – The greatest remedy for anger is delay.

Plato – The unexamined life is not worth living.

Napoleon Bonaparte – Impossible is a word to be found in the dictionary of fools.

Mahatma Gandhi – Truth is God.



Thomas Edison – Genius is one percent inspiration and ninety-nine percent perspiration.

Publilius Syrus – No one knows what one can do till one tries.

Lao Tzu – Knowing others is wisdom, knowing yourself is enlightenment.

- 3. Read the quotes and complete the crossword by writing the names of their respective authors.**

Down:

1. Albert Einstein
3. Winston Churchill

Across:

2. Mahatma Gandhi
4. Swami Vivekanand
5. Eleanor Roosevelt
6. Helen Keller

- 4. Read the questions and tick (✓) the correct option.**

- (a) Maya Angelou
- (b) "I have a dream that my four little children will one day live in a nation where they will not be judged by the colour of their skin, but by the content of their character."

- (c) Benjamin Franklin
 (d) William Shakespeare
 (e) Mark Twain

5. Crack the 'quote' code.

2	12	24	11	24	22	2	10	20	25	20	2	2	1	5	2	20	3	11	
E	H	T	M	T	Y	E	P	S	V	S	E	E	L	A	E	S	K	M	
THE			EMPTY					VESSEL						MAKES					
24	2	12	4	20	24	18	23	1	2	23	15	4	20	18					
E	H	T	D	S	T	P	U	L	E	U	N	D	S	O					
THE			LOUDEST						SOUND										

2	12	24	11	24	22	2
A	L	I	W	I	M	L
WILLIAM						

2	12	20	2	10	5	20	5	3	26	2
E	H	S	E	P	A	S	A	K	R	E
SHAKESPEARE										

6. Unjumble the given words to get a quote. Also, write the name of the author against it.

- (a) Work is a necessary evil to be avoided.

Author- Mark Twain

- (b) We become what we think

Author- Earl Nightingale

(c) Nobody can hurt me without my permission.

Author- Mahatma Gandhi

(d) Never, never, never give up.

Author- Winston Churchill

12

Important Organisations Around the World

1. Read the questions and tick (✓) the correct option.

- | | |
|----------------|--------------------|
| (a) 193 | (d) ISO |
| (b) East Timor | (e) The World Bank |
| (c) 1969 | |

2. State whether the following statements are true or false.

- | | |
|-----------|-----------|
| (a) True | (d) False |
| (b) False | (e) False |
| (c) True | |

3. Word Search: Find the words with the help of the clues given below.

- | | |
|-------------|----------|
| a. Mumbai | d. Equal |
| b. Governor | e. Paris |
| c. Heritage | |

4. Write the full form of the following abbreviations.

PTI – Press Trust of India

UNESCO – United Nations Educational, Scientific and Cultural Organization

- ISRO – Indian Space Research Organisation
ASEAN – Association of Southeast Asian Nations
ISO – International Organisation for
Standardisation

5. Answer the following in one or two words.

- (a) World Health Organization is located in Geneva, Switzerland.
- (b) As of 2016, WHO has 194 members.
- (c) Indonesia and Malaysia are the part of ASEAN.
- (d) The goal of WWF is to conserve the world's biological diversity.
- (e) ISRO is headquartered in Bengaluru.

13

Internet and You

1. Read the questions and tick (✓) the correct option.

- (a) Resource
- (b) LOG
- (c) Scott Fahlman
- (d) ARPANET
- (e) 1,000

2. State whether the following statements are true or false.

- (a) True
- (b) True
- (c) False
- (d) False
- (e) True

3. Match the following.

- (a) HTML – A computer language used for creating web pages and websites
- (b) Website – A collection of linked web pages
- (c) URL – Website address used to find websites and web pages
- (d) Web Browser – An application required to open and view websites
- (e) Web page – Electronic pages of information on the Internet



4. Identify the following common Internet icons and write what they stand for.

- (a.) Wi-Fi
- (b) Internet Explorer
- (c) Facebook
- (d) Google Chrome
- (e) E-mail
- (f) Microsoft Word

5. Solve the crossword puzzle.

Across:

- 2. Wireless
- 4. Website
- 6. Finland

Down:

- 1. Web
- 3. Internet
- 5. Wide

14

Amazing Facts About Natural Crystals

1. Fill in the blanks.

- (a) crystallographer (c) Swarovski
(b) quartz watches (d) Opal

2. Define the term "Crystals".

Crystals: Crystals are made of matter, atoms, molecules and ions; these are arranged together in a repeating pattern. These are called crystals.

3. We call crystals as Energy healers. Why?

It is said that crystals have healing abilities because they are able to stimulate the body energy. Crystals like rose quartz, amethyst, agate, tiger eye are used for energy healing.

4. State whether the following statements are true or false.

- (a) True (d) True (g) False
(b) False (e) True (h) True
(c) True (f) False

5. Identify and name the following crystals.

- (a) Jade (d) Red jasper
(b) Colourful diamonds (e) Citrine
(c) Tiger eye (f) Howlite



6. Write the use of following crystals.

- (a) **Sodium Chloride** - Its common name is salt and it is used in food.
- (b) **Quartz** - It is used in making gemstones.
- (c) **Diamond** - It is used for making jewellery.
- (d) **Marble** - It is used for making parts of building, decorating the walls of a building and making floors.

7. Search and shade the words for seven basic crystal shapes in the below word grid.

T	X	L	V	T	N	A	B	I	U
E	T	M	B	S	L	M	N	I	P
T	R	I	G	O	N	A	L	R	O
R	T	C	U	B	I	C	P	B	X
A	V	N	M	O	P	S	D	Y	I
G	R	B	U	I	O	N	M	X	T
O	R	T	H	O	M	B	I	C	R
N	Y	B	E	C	O	T	B	N	I
A	C	J	X	S	N	E	V	O	C
L	B	L	A	N	O	J	M	F	L
E	T	I	G	I	C	D	W	U	I
L	T	N	O	B	L	D	N	G	N
M	S	I	N	T	I	C	H	R	I
D	T	C	A	C	N	B	H	T	C
T	E	R	L	C	I	V	B	H	Z
N	M	C	R	U	C	U	I	P	C

15

Famous Literary Awards and Indian Authors

1. State whether the following statements are true or false.

- (a) False
- (b) False
- (c) False
- (d) False
- (e) True

2. Match the following.

- (a) Malgudi Days – R.K. Narayan
- (b) Man Booker Prize – Kiran Desai
- (c) Vyas Samman – Recognises Hindi literary work
- (d) Jnanpith Award – Highest literature award of India
- (e) Saraswati Samman – Recognises prose and poetry written in 22 Indian languages
- (f) The Inheritance of Loss – Best original novel
- (g) Pulitzer Prizes – Journalism, letters, drama and music
- (h) Chetan Bhagat – 2 States

- (i) Arvind Adiga — The White Tiger
(j) Orange Prize — Award presented to a woman

3. Read the questions and tick (✓) the right option.

- (a) The Neustadt International Award
(b) Jnanpith Award
(c) The International IMPAC Dublin Literary
(d) Rabindranath Tagore

4. Fill in the blanks.

- (a) Fiction
(b) Saraswati
(c) Children's Laureate
(d) The Namesake

6. Answer the following.

- (a) Alfred Noble (1895),
(b) Man Booker Prize
(c) A.P.J. Abdul Kalam
(d) Rabindranath Tagore
(e) Anita Desai