

## Chapter 3.2: The Night I Met Einstein

### WARMING UP [PAGE 107]

#### Warming Up | Q 1 | Page 107

With your bench-mate prepare a profile of Albert Einstein.

#### ALBERT EINSTEIN

- Profession : \_\_\_\_\_
- Field of Science : \_\_\_\_\_
- World-famous theory proposed : \_\_\_\_\_
- Awards : \_\_\_\_\_
- Disability in childhood : \_\_\_\_\_
- Books written : \_\_\_\_\_

### SOLUTION

#### ALBERT EINSTEIN

**Ans. Profession:** Scientist

**Field of Science:** Theoretical Physics

**The world-famous theory proposed:** Theory of Relativity




**Awards:** Nobel Prize in Physics (1921), Copley Medal by the Royal Society (1925), Gold Medal of the Royal Astronomical Society (1926), Max Planck medal of the German Physical Society (1929), Prix Jules Janssen (1931)

**Disability in childhood:** Dyslexia (Asperger's Syndrome, Autism)





**Books wrote:** The World as I see it: Relativity: The Special and the General Theory: The Evolution of Physics: The Meaning of Relativity: Einstein's Essays in Science; Einstein on Peace: Why War?: Essays in Humanism

#### Warming Up | Q 2 | Page 107








Look at the pictures of musical instruments and write their names; what the player of the instrument is called and a famous player of the instrument.

Instrument	Name of the instrument	One who plays is called	A famous player
	_____	_____	_____
	_____	_____	Ustad Bismillah Khan
	_____	Pianist	_____



	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

### SOLUTION

Instrument	Name of the instrument	One who plays is called	A famous player
	Table	Tabalchi	Zakir Hussain
	Shehnai	Vajantri	Ustad Bismillah Khan
	piano	Pianist	Anil Srinivasan
	Drum	drummer	Sivamani
	violin	violinist	Dr. L. Subramaniam
	Sitar	sitar player	Ravi Shankar
	trumpet	trumpeter	Dubier

### Warming Up | Q 3 | Page 107

Separate the words in the columns they belong to.

(chorus, ballet, melody, swar, kathak, raga, salsa, symphony, mudra, serenade, choreography, tune, audience, tango, allegro, duet, Odissi, choir, concert, performance, hip-hop)

Music	Common to both arts	Dance

### SOLUTION

Music	Common to both	Dance
chorus	arts	ballet
melody	salsa	kathak
swar	audience	mudra
raga	concert	tango
symphony	performance	Odissi
serenade	Common to both	hip-hop
tune	arts	choreography
allegro	salsa	Dance
duet	audience	ballet
choir	concert	kathak

### ENGLISH WORKSHOP [PAGES 110 - 113]

#### English Workshop | Q 1. (a) | Page 110

Complete the following sentence.

The narrator was not happy about the concert because \_\_\_\_\_.

### SOLUTION

The narrator was not happy about the concert because he did not understand classical music.

#### English Workshop | Q 1. (b) | Page 110



**Complete the following sentence.**

When the narrator turned to look at his neighbour, he \_\_\_\_\_.

**SOLUTION**

When the narrator turned to look at his neighbour he saw a very famous face with a shock of white hair and a pipe.

**English Workshop | Q 1. (c) | Page 110**

**Complete the following sentence.**

Einstein was surprised to hear that \_\_\_\_\_.

**SOLUTION**

Einstein was surprised to hear that the narrator had never heard any of Bach's music and did not know anything about him.

**English Workshop | Q 1. (d) | Page 110**

**Complete the following sentence.**

The narrator's memory has an image of Einstein as \_\_\_\_\_.

**SOLUTION**

The narrator's memory has an image of Einstein as a small man with a shock of untidy hair and a pipe in his mouth.

**English Workshop | Q 1. (e) | Page 110**

**Complete the following sentence.**

The greatest act towards human beings is \_\_\_\_\_.

**SOLUTION**

The greatest act towards human beings is opening up the frontiers of beauty.

**English Workshop | Q 2 | Page 111**

**Who said to whom?**

Statement	Who	To whom	Effect on the listener
"We are going to listen to a very good pianist."	_____	_____	_____
"I do not know anything about Bach."	_____	_____	_____
"You are not tone-deaf."	_____	_____	_____
"Just allow yourself to listen that's all there is to it"	_____	_____	_____

**SOLUTION**



Statement	Who	To whom	Effect on the listener
"We are going to listen to a very good pianist."	The hostless	The narrator	Not very happy
"I do not know anything about Bach."	The narrator/writer	Albert Einstein	The listener looked surprised.
"You are not tone-deaf."	Albert Einstein	The narrator/writer	The listener tried to justify himself.
"Just allow yourself to listen that's all there is to it?"	Einstein	The narrator	The listener was able to appreciate the concert and clap sincerely.

### English Workshop | Q 3 | Page 111

List all the words from the story related to 'Music'.

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#### SOLUTION

Concert, pianist, classical music, tone-deaf, piece. Bach, Gramophone, song, tune, Bing Crosby, voice, John MacCormac, The Trumpeteer.

### English Workshop | Q 4. (a) | Page 111

Rewrite the following sentence inserting the appropriate phrases in their proper form.

(to get out of, to come up, to turn on, to give in, to get into, to come down, to work out, to turn off, to give off, to give out, to work in)

He \_\_\_\_\_ bed and \_\_\_\_\_ the living room, to see if the door was closed

#### SOLUTION

He **Got** out of bed and **got** into the living room, to see if the door was closed.

### English Workshop | Q 4. (b) | Page 111

Rewrite the following sentence inserting the appropriate phrases in their proper form.

(to get out of, to come up, to turn on, to give in, to get into, to come down, to work out, to turn off, to give off, to give out, to work in)

To enjoy the music and relax, he \_\_\_\_\_ the music and \_\_\_\_\_ the lights.



### SOLUTION

To enjoy the music and relax, he **turned on** the music and **turned off** and the lights.

### English Workshop | Q 4. (c) | Page 111

**Rewrite the following sentence inserting the appropriate phrases in their proper form.**

(to get out of, to come up, to turn on, to give in, to get into, to come down, to work out, to turn off, to give off, to give out, to work in)

Smita \_\_\_\_\_ to her desire and \_\_\_\_\_ her favourite toys to the poor.

### SOLUTION

Smita **gave in** to her desire and **gave off** her favourite toys to the poor it.

### English Workshop | Q 4. (d) | Page 111

**Rewrite the following sentence inserting the appropriate phrases in their proper form.**

(to get out of, to come up, to turn on, to give in, to get into, to come down, to work out, to turn off, to give off, to give out, to work in)

You should \_\_\_\_\_ Mathematics so that you can \_\_\_\_\_ problem.

### SOLUTION

You should **work in** Mathematics so that you can **work out** problem.

### English Workshop | Q 5. (a) | Page 111

**Give two points of difference between :**

Instrumental Music	Vocal Music
(1)	
(2)	

### SOLUTION

Instrumental Music	Vocal Music
1) Instruments are used.	The voice (vocal chords) are used.
2) Some part of the body is used as a medium to produce the sound, but the final sound is produced by the instrument.	Some parts of the body aid the production of sound (e.g., the stomach, lungs, vocal tract, mouth, etc.), but the final sound emerges through the mouth.
3) The output of the instrument is more or less of the same type, although the	Individual voices vary from the very low bass to the very high tenor. Hence the output varies and is very individualistic.



way the musician plays can give it an individualistic flavour.	
4) An instrument can hardly be expected to sound like a voice (although some musicians try).	The voice can be used to imitate the sound of an instrument.

### English Workshop | Q 5. (b) | Page 111

Give two points of difference between :

Light music	Classical music	Folk music

### SOLUTION

Classical music	Folk music	Light music
(1) Based on discipline	(1) Comes from the heart	(1) Pleasant to hear
(2) Strict rules of rhythm and patterns.	(2) Voices popular emotions	(2) Does not demand any great emotion or effort from the listener
	(3) No rules	(3) Could be from any genre.

### English Workshop | Q 6 | Page 111

Prepare a word list of occupations in alphabetical order from the letters A up to T. (You may skip 'K' and 'Q')

Actor,	Banker,	Carpenter,	D	E
F	G	H	I	J
L	M	N	O	P
R	S	T		

### SOLUTION

Actor, banker, carpenter, driver, engineer, farmer, Geologist, haberdasher, inspection, jockey, keyboardist, labourer, musician, neurosurgeon, optician, painter, quarry worker, radiologist, singer, tailor, upholsterer, vendor, waiter, zoologist

### English Workshop | Q 7. (a) | Page 112

Rewrite the following in indirect narration.



“You are not tone-deaf”, he said to me.

### **SOLUTION**

He told me that I was not tone-deaf.

### **English Workshop | Q 7. (b) | Page 112**

**Rewrite the following in indirect narration.**

“Could you have done it?”, said Einstein.

### **SOLUTION**

Einstein asked me whether I could have done it.

### **English Workshop | Q 7. (c) | Page 112**

**Rewrite the following in indirect narration.**

“Sing that back”, he ordered me.

### **SOLUTION**

He ordered me to sing that back.

### **English Workshop | Q 7. (d) | Page 112**

**Rewrite the following in indirect narration.**

He said, “What kind of music do you like?”

### **SOLUTION**

He asked me what kind of music I liked.

### **English Workshop | Q 7. (e) | Page 112**

**Rewrite the following in indirect narration.**

“I’m so sorry, Dr. Einstein”, she said.

### **SOLUTION**

She apologized/told Dr. Einstein that she was so sorry.

### **English Workshop | Q 8. (A) (i) | Page 112**

**Degrees of Comparison (Positive / Comparative / Superlative) Insert the appropriate expressions, choosing from those given after the sentence, for the positive degree.**

I am not \_\_\_\_\_ my friend.

1. taller than
2. more taller
3. **just as tall as**

### **SOLUTION**

I am not **just as tall as** my friend.

### **English Workshop | Q 8. (A) (ii) | Page 112**



**Degrees of Comparison (Positive / Comparative / Superlative)** Insert the appropriate expressions, choosing from those given after the sentence, for the positive degree.

They are \_\_\_\_\_ their neighbours.

1. **as helpful as**
2. most helpful
3. more helpful

### **SOLUTION**

They are **as helpful as** neighbours.

**English Workshop | Q 8. (A) (iii) | Page 112**

**Degrees of Comparison (Positive / Comparative / Superlative)** Insert the appropriate expressions, choosing from those given after the sentence, for the positive degree.

No other desert in Africa is \_\_\_\_\_ the Sahara Desert.

1. biggest of all
2. **nearly as big as**
3. bigger as

### **SOLUTION**

No other desert in Africa is **nearly as big as** the Sahara Desert.

**English Workshop | Q 8. (A) (iv) | Page 112**

**Degrees of Comparison (Positive / Comparative / Superlative)** Insert the appropriate expressions, choosing from those given after the sentence, for the positive degree.

Very few animals in the wild are \_\_\_\_\_ an elephant.

1. exactly huger than
2. **exactly as huge as**
3. hugest than

### **SOLUTION**

Very few animals in the wild are **exactly as huge as** an elephant.

**English Workshop | Q 8. (A) (v) | Page 112**

**Degrees of Comparison (Positive / Comparative / Superlative)** Insert the appropriate expressions, choosing from those given after the sentence, for the positive degree.

Some snacks are \_\_\_\_\_ a pizza.

1. **at least as tasty as**
2. tastier as
3. most tasty as

### **SOLUTION**

Some snacks are **at least as tasty as** a pizza.

**English Workshop | Q 8. (B) (i) | Page 112**

**Change the Degree of Comparison, as directed and rewrite without changing the meaning.**

No one in the class is as brilliant as Tanvi. (Superlative)

**SOLUTION**

Tanvi is the most brilliant in class.

**English Workshop | Q 8. (B) (ii) | Page 112**

**Change the Degree of Comparison, as directed and rewrite without changing the meaning.**

A diamond is one of the most precious of all stones. (Comparative)

**SOLUTION**

A diamond is more precious than any other stone.

**English Workshop | Q 8. (B) (iii) | Page 112**

**Change the Degree of Comparison, as directed and rewrite without changing the meaning.**

Her handwriting is better than that of her sister. (Positive)

**SOLUTION**

Her sister's handwriting is not as good as hers.

**English Workshop | Q 8. (B) (iv) | Page 112**

**Change the Degree of Comparison, as directed and rewrite without changing the meaning.**

Jupiter is the largest of all planets. (Comparative)

**SOLUTION**

Jupiter is larger than all the other planets.

**English Workshop | Q 8. (B) (v) | Page 112**

**Change the Degree of Comparison, as directed and rewrite without changing the meaning.**

He is not the greatest of all leaders. (Positive)

**SOLUTION**

He is not as great as some of the other leaders

**English Workshop | Q 8. (B) (vi) | Page 112**

**Change the Degree of Comparison, as directed and rewrite without changing the meaning.**

This painting is better than any other painting in the palace. (Superlative)

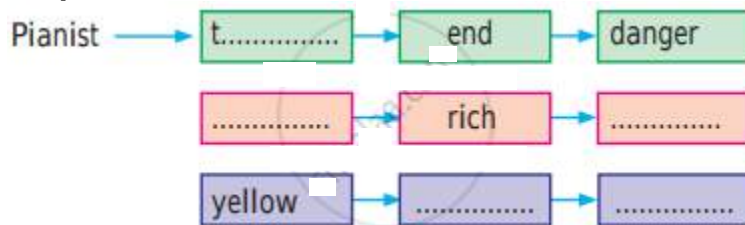
**SOLUTION**



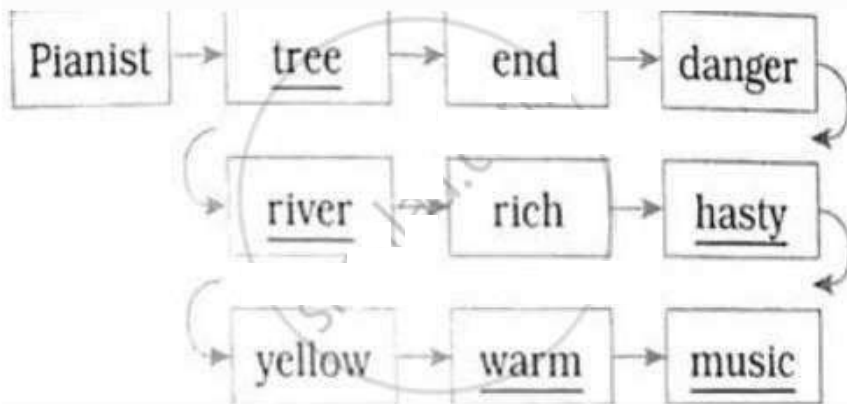
This is the best painting in the palace.

**English Workshop | Q 9 | Page 112**

**Prepare a word chain.**



**SOLUTION**



**English Workshop | Q 1. (a) | Page 113**

**Pick out the word that refers to the following:**

A musical performance in public.

**SOLUTION**

A musical performance in public - Concert.

**English Workshop | Q 1. (b) | Page 113**

**Pick out the word that refers to the following:**

A lady who invites and looks after guests.

**SOLUTION**

A lady who invites and looks after guests - Hostess

**English Workshop | Q 1. (c) | Page 113**

**Pick out the word that refers to the following:**

A device used to play recorded music.

**SOLUTION**

A device used to play recorded music - Gramophone.

**English Workshop | Q 1. (d) | Page 113**

**Pick out the word that refers to the following:**

One who is poor at deciphering musical notes.

### **SOLUTION**

One who is poor at deciphering musical notes - **Tone deaf.**

**English Workshop | Q 1. (e) | Page 113**

**Pick out the word that refers to the following:**

Boundaries or limits of a field.

### **SOLUTION**

Boundaries or limits of a field - **Frontiers.**

**English Workshop | Q 11 | Page 113**

'Music is the medicine of the mind'. Narrate an experience that leads to the above conclusion. Write it in your own words, in your notebook.

### **SOLUTION**

#### **Music is the medicine of the mind.**

Music is good therapy. It is particularly effective because it registers on multiple sites of the brain. This means that even if the brain is very badly affected by a stroke or illness, there are still parts of the brain that recognise music

I remember how upset all of us was when my grandfather suffered a stroke. The left side of his body and almost all of his face were affected. The once great and active grandpa now lay still on the bed and had to be fed through a tube going down his nostrils. Little Rani could not stop weeping

Grandfather had once presented me with a mobile phone. He knew my love for music and had told me I could download my favourite songs and create a playlist and hear them whenever I wanted to. I would sit in my grandfather's bed whenever I was at home and had finished my studies and play the songs and listen to them.

One evening to my surprise. I saw a shadow of a smile beginning to appear on grandpa's face. At first, I couldn't believe it. Then it became more definite and prominent. Grandpa was actually smiling!

I called mom and dad and Rani and everyone to see. Yes, grandpa was indeed smiling. The music had reached out to him and had drawn out a response from him.

That was one of the happiest moments during his illness.

**English Workshop | Q 12 | Page 113**



**You will come across many famous personalities in the story. Go to the library or search on the internet the following names and write a few lines about the personalities given below.**

- (a) Albert Einstein
- (b) Johann S. Bach
- (c) Bing Crosby
- (d) John McCormack

### **SOLUTION**

Do it yourself.

### **English Workshop | Q 13 | Page 113**

**Imagine you are the monitor of the class. You are asked to conduct an interview with a famous scientist who is in your city/village. Frame 8 to 10 interview questions with the help of the following points.**

- (1) Early life and education
- (2) Interest for this particular field
- (3) Any inspirational incident that occurred in his/her life
- (4) Guru or mentor
- (5) Inventions and awards
- (6) Future plans
- (7) Advice/Message to youngsters

### **SOLUTION**

**Interview questions to be asked to the scientist:**

- (1) Good morning, Sir. I am privileged to interview an eminent scientist like you. Sir, could you tell me about your early life and education?
- (2) Apart from science were there any other subjects that interested you in school or college?
- (3) Is there any specific incident you can mention that inspired you to go ahead and achieve greatness?
- (4) Who would you say was your Guru or mentor?
- (5) Sir, could you give us a brief idea about your inventions?
- (6) Which awards have you received?
- (7) Sir, what are your future plans?
- (8) What advice do you have for the youngsters of today?

### **English Workshop | Q 14 | Page 113**

**Divide the class into four groups. Collect pictures or draw images of various musical instruments, of the following categories.**

- (a) Stringed Instruments (Guitar)
- (b) Wind Instruments (Flute)



(c) Percussion Instruments (Tabla)

(d) Solid Metal Instruments (Cymbals)

Paste and decorate pictures on separate sheets of paper. Give proper headings and names. Compile into a file with a cover and suitable file-title.

### **SOLUTION**

#### **Stringed Instruments (Guitar)**



#### **Wind Instruments (Flute)**



#### **Percussion Instruments (Tabla)**



#### **Solid Metal Instruments (Cymbals)**

