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Note to VIII Eng teachers: "Beyond Boundaries" lesson has 7 question answers (to discuss). Refer "Q" and the answer booklet...

In CHALLENGING NORMS & JUSTICE BE DONE (P. I ERC

1) In Pisa, one day during a church service ----- additional fame: "The Law of the Pendulum"

a) How did Galileo measure the time taken by the lamp to swing?

Ans: Galileo measured the time taken by the lamp to swing by using his own pulse.

b) What surprising discovery did Galileo make about the swinging lamp?

Ans: Galileo discovered that each swing took exactly the same amount of time.

c) What scientific foundation did the lamp observation lead to?

Ans: The lamp observation led to the scientific foundation: The Law of the Pendulum.

II SHORT ANSWERS.

1. Write the character sketch of Galileo Galilei.

Ans: Galileo Galilei was a curious and brave scientist. He loved learning new things, so he attended lectures without an invitation. His intelligence earned him a position at the

University of Pisa. However, he often disagreed with traditional ideas, which led to his contract not being renewed. Still he never gave up. He kept inventing useful devices. And even when under house arrest, he used his time to write, 'The New Sciences'. He was determined, creative and fearless.

III ANSWER IN DETAIL

- 1) Jot down the five major events in Galileo's life between the time he was 17 and when he was placed under house arrest.
 Ans: At about 1581, at the age of 17, Galileo attended Ostilio Ricci's lecture; he moved from medical studies to mathematics.
2. 1589 - Galileo was appointed as the professor of mathematics at the University of Pisa. The university gave him a public platform to teach and experiment. He proved Aristotle was wrong which angered powerful people and university did not renew his contract.
3. 1609 - He invented many devices. At first he built a 3-power and then a 10-power telescope.
4. ~~1609~~ 1592 - Galileo moved to the University of Padua. This position gave him better pay and freedom.
5. 1610 - With his self built 30-power telescope, he invented Jupiter's satellites and published

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his findings to prove the Copernican idea of the Sun at the centre of the Solar System. This triggered a trial. In 1633, Galileo placed under house arrest.

Ln - Pr - JUSTICE BE DONE

I ERC

1) Tumman: Do what you will ---- Why should they side with you?"

a) What do these lines tell you about the speaker's tone and character?

Ans. These lines show Tumman's arrogance, selfishness and overconfidence.

b) Did anyone actually take the side of the person referred to?

Ans. Yes, people actually took Khala Jaan's side, because the panchayat valued justice.

c) "Who do you think will support you?" What support is the speaker referring to?

Ans. Tumman was referring to the support of the villagers in the panchayat, which he assumed he would get because of the past favours.

d) What did the person addressed to, do next?

Ans. Khala Jaan, instead of remaining quiet, decided to call a panchayat and seek justice.

2) Khala Jaan: I will call a panchayat. ---
will stand up for what is right!?

a) Why did the person want to call the panchayat?
Ans. The person, Khala Jaan wanted to call the panchayat ~~because~~ to get justice.

b) What opinion did the person have about 'the friend'?

Ans. Khala Jaan believed that Jummam's friend Bhaag would be honest and impartial despite his friendship with Jummam.

c) What did the speaker expect from the panchayat?

Ans. The speaker expected to side with truth and deliver justice from the panchayat.

d) How did the 'friend' react to this outburst by the speaker?

Ans. The 'friend' Bhaag ^{felt} deeply troubled and pained. He suggested to resolve the issue within the family.

3) Jummam: Since you have asked for me ---
--- the bullock in good health?

a) Why was the speaker asked to be the sarpanch?

Ans. Jummam was asked to be the Sarpanch because Samjhu thought that by nominating Jummam as Sarpanch, the judgement would be in his favour.

b) What happened to him just before he said these words?

Ans. Just before saying this, Tumman struggled with his inner conscience - whether to favour his friend or to uphold the truth. Finally

c) Who bought the bullock and from whom?

Ans. Samjhu bought the bullock from Alagu Choudhry.

d) What had happened to the bullock and why?

Ans. The bullock died after a few months because it was made to haul heavy loads to the market several times a day. It did not get enough rest or food.

II SHORT ANSWERS.

1. What were the effects of the following actions?

a) Khala Jaan had transferred her property to Tumman.

Ans. At first Tumman and his wife treated her well, but soon after securing the property, they began to neglect her and ill-treat her. This made Khala Jaan feel unwanted and helpless.

b) Alagu took his seat as the Sarpanch.

Ans. Tumman grew hopeful that his friend would give a judgement in his favour. But Alagu rose above friendship and decided to act justly, causing Tumman's expectations to be shaken.

III ANSWER IN DETAIL

1. What does the statement "Do we grow money?" by Tummam reveal about his character?

Ans. This statement shows Tummam's selfishness and insensitivity. It shows that Tummam was greedy and did not want to spend money on his old aunt. He had taken her property but did not want to care for her.

II SHORT ANSWERS

1. List any two effects of the following

(a) Khala's death had damaged her property

(b) Tummam's death had damaged her property

(c) Tummam's death had damaged her property

(d) Tummam's death had damaged her property

(e) Tummam's death had damaged her property

(f) Tummam's death had damaged her property

(g) Tummam's death had damaged her property

(h) Tummam's death had damaged her property

(i) Tummam's death had damaged her property