



## MODULE 1

### Class VII

#### English (Critical & Creative thinking)

Go through the ticket given below carefully and answer the questions that follow.

<b>PNRNo:2820228537</b>	Train No. & Name : 12046 CDG NDLS SHATABDI	Quota: General(GN)
From:CHANDIGARH(CDG)	Date of Journey : 22-February -2020	To : NEW DELHI (NDLS)
SCHEDULED DEPARTURE - 11:00 am	SCHEDULED ARRIVAL- 3:25 pm	Distance - 266km
<b>FARE DETAILS</b>		
Ticket Fare**	₹4920 only	
Agent Service Charges #	₹89.20 only	
Total	₹5009.20 only	

\*\* Inclusive of GST – ₹ 195 only # - for all tickets

#### PASSENGER DETAILS

S. NO	Name	Age	Food Choice	Booking Status/COACH/SEAT NO.
1.	SURVEEN KAUR	44	VEG	CONFIRMED/C5/20
2.	EKJOT SINGH	16	NON VEG	CONFIRMED /C5/21
3.	JAGJIT SINGH	14	VEG	NOT CONFIRMED
4.	CHAITANYA	11	VEG	CONFIRMED /C5/22

**NOTE** :Confirmed ticket can be cancelled up to thirty minutes before scheduled departure of the train. However, no refund shall be granted on cancellation of confirmed ticket after four hours before the scheduled departure of train.

#### Answer the following questions.

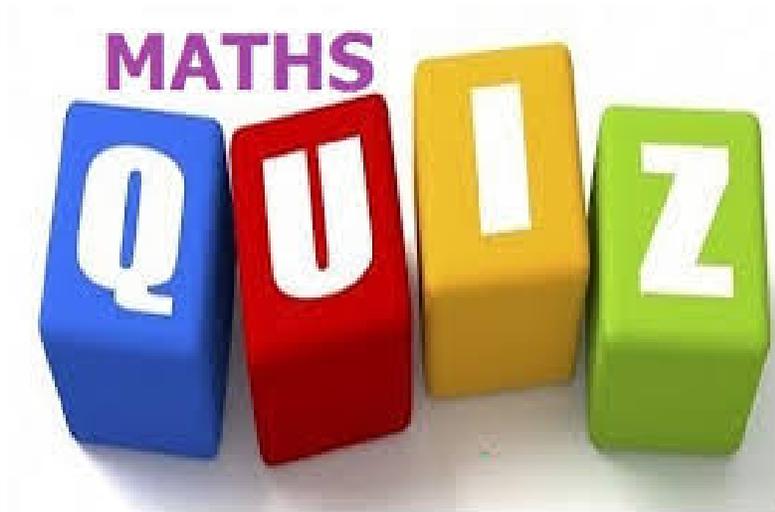
- Calculate the cost of one ticket excluding GST and Agent Service Charges.
- The train will cover 266 kms in ..... hours ..... minutes.
- What does GST stand for?

- iv) Ekjot Singh and Jagjit Singh cancelled their tickets at 10:00 a.m. on the day of the journey. Will they get a refund? Why/Why not?
- v) Why should one get tickets booked in advance?
- vi) Find a word from the above information which means the same as **'anticipated'**.

## MODULE 2

### Mathematics (CCT)

#### Topic : Integers



The students of class 7<sup>th</sup> in a school are participating in Maths Quiz during Maths Week celebrated in the school. Ms Rupa, their Maths teacher has made 5 rounds of questions for Quiz. The scores of 5 Teams in these 5 rounds are as follows

	Round 1	Round 2	Round3	Round4	Round5
Team 1	0	-20	30	0	-10
Team2	-10	0	10	20	10
Team3	10	0	10	0	-10
Team 4	20	20	10	0	10
Team 5	-10	0	-10	10	0

By reading the above table, answer the following questions :

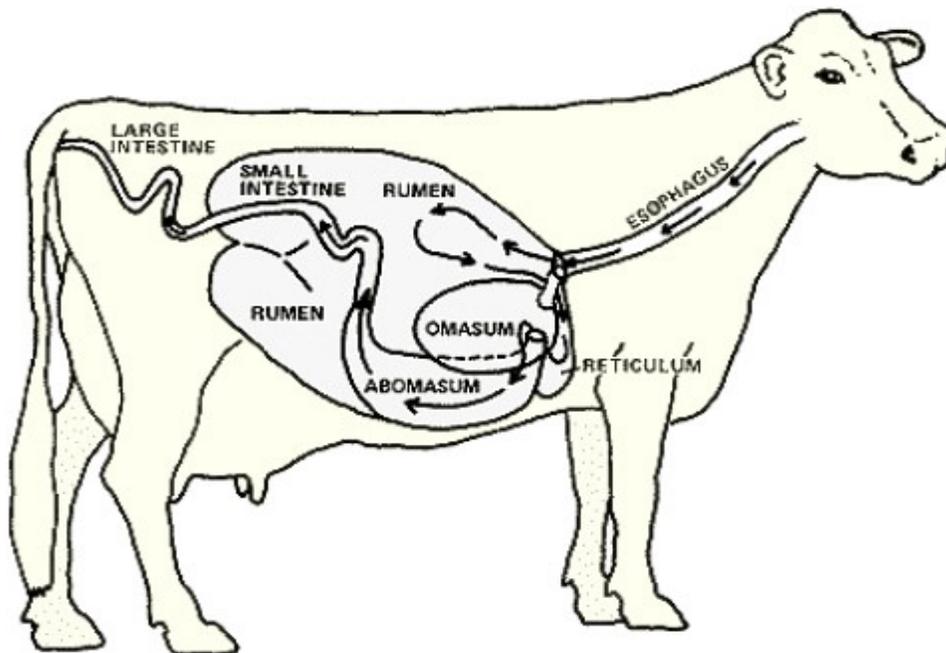
- Q1. Calculate the points scored by each team in 5 rounds .
- Q2. Name the Team scoring maximum points after 5 rounds and write its points .
- Q3. Which team has scored minimum points after 5 rounds and write the points.
- Q4 . What is the relation between the points scored after 5 rounds by team3 and team 5 .
- Q5 . Are the points scored after 5 rounds by team4 double of the points scored team 2?

## MODULE 3

### SCIENCE (CCT)

#### Nutrition in animals

**Ruminants** are mammals that are able to acquire nutrients from plant-based food by fermenting it in a specialized stomach prior to digestion, principally through microbial actions. The process, which takes place in the front part of the digestive system and therefore is called foregut fermentation, typically requires the fermented ingesta (known as cud) to be regurgitated and chewed again. The process of rechewing the cud to further break down plant matter and stimulate digestion is called **rumination**. The word "ruminant" comes from the Latin *ruminare*, which means "to chew over again".



- Q1. Identify the four stomach.
- Q2. Observe the above ruminant and write down the journey the food takes, in sequential order, starting from the oesophagus.
- Q3. Cellulase enzyme is absent in ruminants so how do you think they digest it?
- Q4. Where does actual digestion of fermented products takes place?

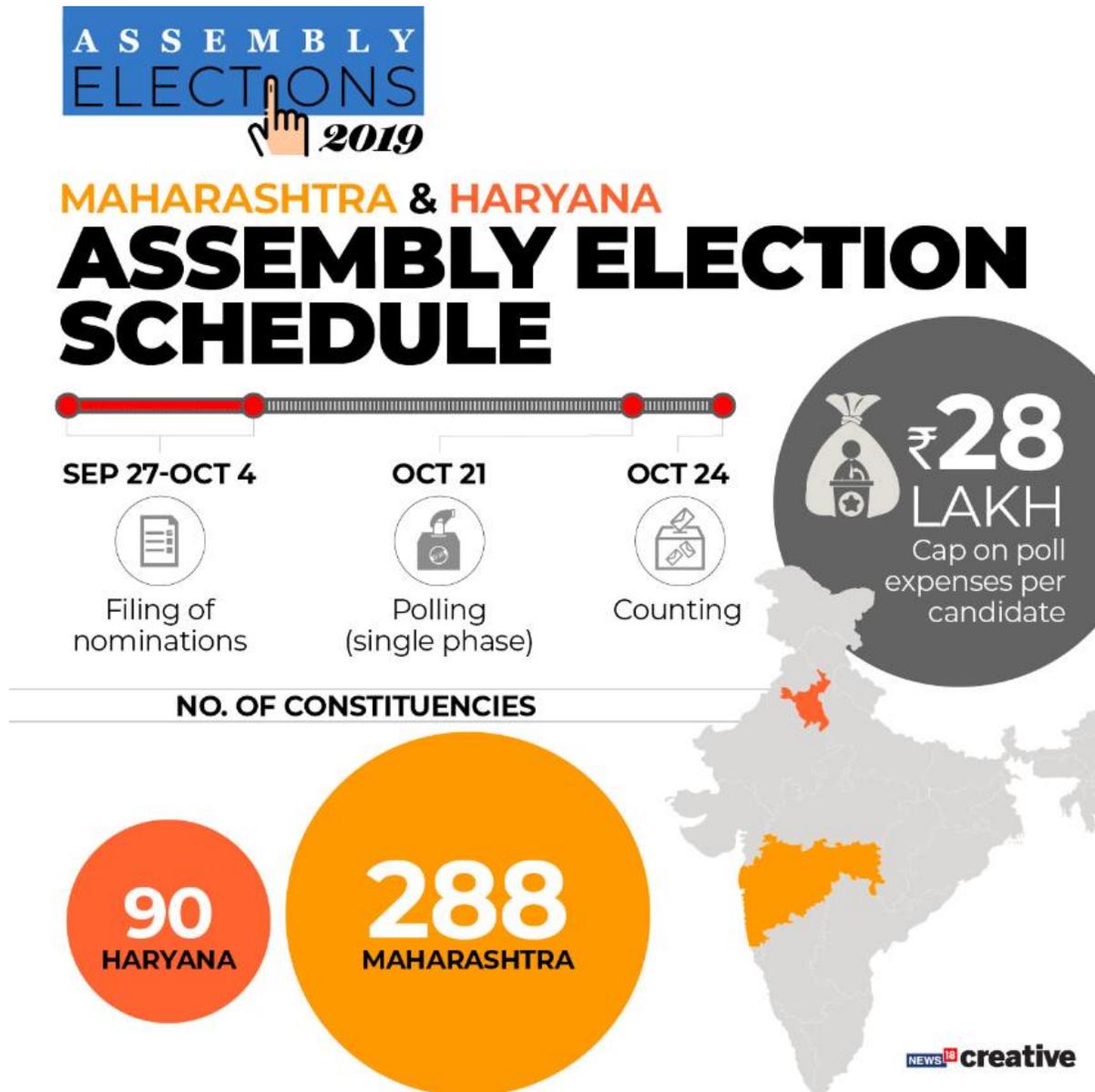
- Q5. When does fermentation in ruminants take place:
- i. after digestion.( agree/disagree)
  - ii. before digestion( agree/disagree)
  - iii. does not take place(agree/disagree)
  - iv. occurs in the foregut(agree/disagree)

## MODULE 4

Social Science (CCT)

Chapter-3 How the State Government Works

Ques. Analyse the Picture given below and answer the questions that follow:



1. On which date the polling took place in Maharashtra and Haryana?
2. What was the total of the constituencies in Haryana and Maharashtra?
3. What do you understand by the term 'Constituency'?
4. If there are 3 candidates, find out the total cap on poll expense.
5. Why do think it's important to have elections?

## MODULE 5

### रचनात्मक एवं गहन चिंतन हम पंछी उन्मुक्त गगन के

ह

म पंछी उन्मुक्त गगन के  
पिंजरबद्ध न गा पाएँगे,  
कनक-तीलियों से टकराकर  
पुलकित पंख टूट जाएँगे।

हम बहता जल पीनेवाले  
मर जाएँगे भूखे-प्यासे,  
कहीं भली है कटुक निबोरी  
कनक-कटोरी की मैदा से।

स्वर्ण-शृंखला के बंधन में  
अपनी गति, उड़ान सब भूले,  
बस सपनों में देख रहे हैं  
तरु की फुनगी पर के झूले।

ऐसे थे अरमान कि उड़ते  
नीले नभ की सीमा पाने,  
लाल किरण-सी चोंच खोल  
चुगते तारक-अनार के दाने।



वसंत भाग-2

होती सीमाहीन क्षितिज से  
इन पंखों की होड़ा-होड़ी,  
या तो क्षितिज मिलन बन जाता  
या तनती साँसों की डोरी।

नीड़ न दो, चाहे टहनी का  
आश्रय छिन्न-भिन्न कर डालो,  
लेकिन पंख दिए हैं तो  
आकुल उड़ान में विघ्न न डालो।



कविता के आधार पर निम्नलिखित प्रश्नों के संक्षिप्त में उत्तर दीजिए :-

प्र01 पक्षियों को अपने पंखों के किस प्रकार टूटने की आशंका है ?

प्र02 पक्षियों को सोने की कटोरी में रखी मैदा की रोटी से कौन-सी चीज़ अधिक अच्छी लगती है ?

प्र03 किस पक्षी को अपनी राख से फिर जी उठने की क्षमता के कारण शाश्वत जीवन का प्रतीक माना जाता है ?

(अ) सुनहरा हंस

(ब) अमर पक्षी

(स) खेरमुतियां (केस्ट्रैल)

प्र04 हिन्दू धर्मशास्त्रों में पक्षियों का देवता किसे माना जाता है ?

(अ) गरुड़ (ब) जटायु

(स) अरुण

प्र05 पक्षी मनुष्य को क्या संदेश देना चाहते हैं ?

प्र06 पक्षियों को पिंजरें में बंद करने से केवल उनकी आज़ादी का हनन ही नहीं होता, अपितु पर्यावरण भी प्रभावित होता है। इस विषय पर अपने विचार लिखिए।

## English

### Answer Key

**i) Cost of one ticket excluding GST and Agent Service Charges.**

Ticket fare excluding Agent Service Charges : ₹ 4920

GST: ₹ 195

Ticket fare excluding GST : ₹ 4920 – ₹ 195 = ₹ 4725

No. of passengers – 4

Cost of one ticket ₹4725/4 = ₹ 1181.25

Note (Agent Service Charges are not added to the ticket fare as they are handling charges for all tickets and thus, they are added later.)

ii) The train will cover 266 kms in **4** hours **25** minutes.

iii) What does GST stand for? **Goods and Service Tax**

iv) Ekjot Singh and Jagjit Singh cancelled their tickets at 10:00 a.m. on the day of the journey. Will they get a refund? Why/Why not?

**Ekjot will not get refund because he has cancelled his confirmed ticket one hour before the time of departure. If he had cancelled ticket before 7 am, he would have got a refund. Jagjit will get a refund because his ticket was not confirmed.**

v) Why should one get tickets booked in advance?**You may not get tickets later, helps you to be organized;to avoid last minute hassles and panic.**

vi) Find a word from the above information which means the same as **'anticipated'**. – **scheduled**

## CCT Answers

### Maths Integers

- (i) Team 1=0  
Team 2=30  
Team 3=10  
Team 4=60  
Team 5=-10
- (ii) Team 4 maximum= 60 points
- (iii) Team 5 minimum= -10 points
- (iv) Points by Team 3=10  
Points by Team 5=-10  
-10 is the additive inverse of 10.
- (v) Points by Team 4=60  
Points by Team 2=30  
Yes it is double

## Science

### NUTRITION IN ANIMALS

#### ANSWER KEY

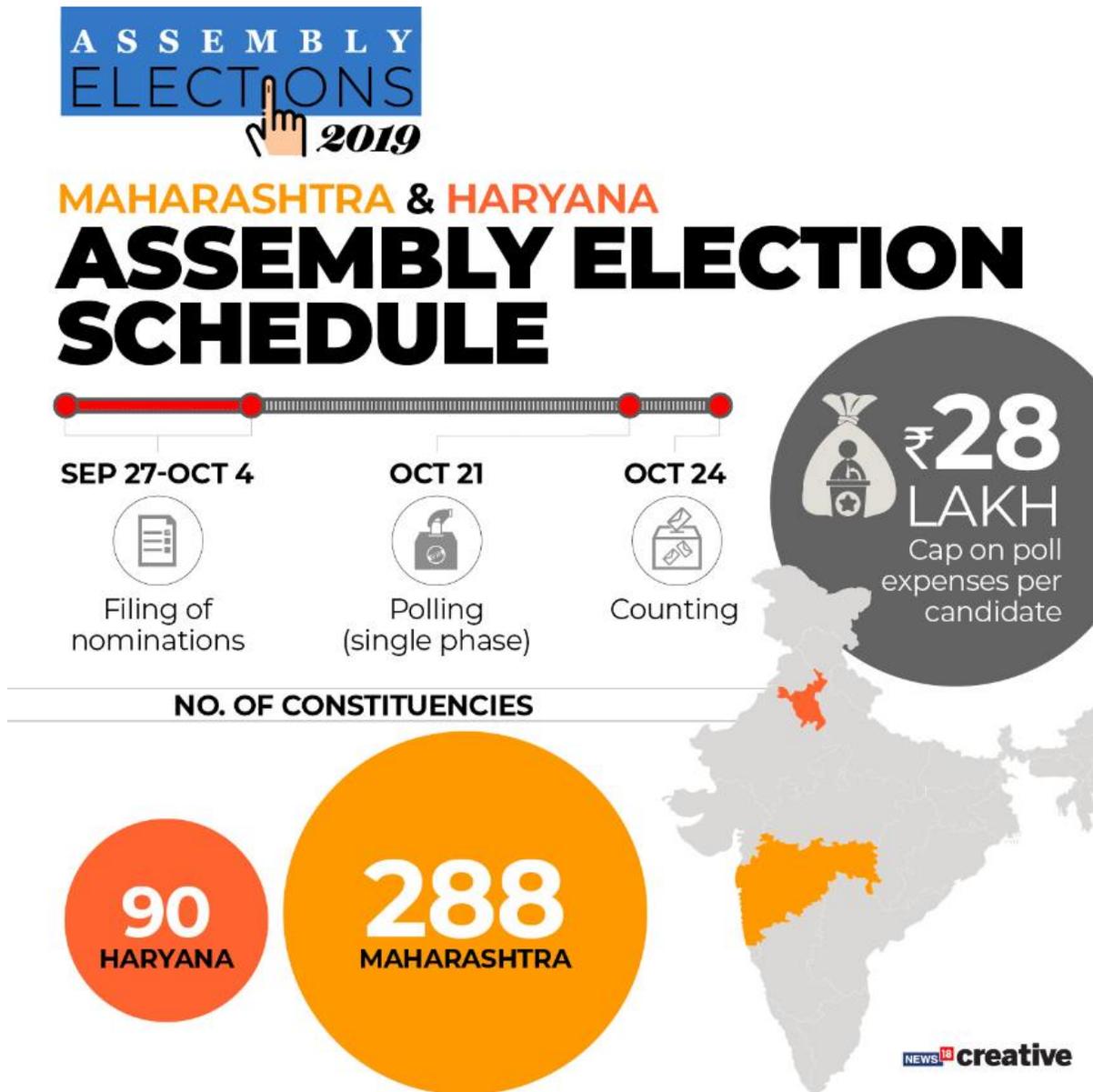
1. Rumen, reticulum, omasum and abomasum.
2. Rumen, reticulum, omasum and abomasum, small intestine.
3. They chew their cud and digest cellulose by cellulose digesting bacteria present in their intestine.
4. Abomasum
5. ii. Before digestion and iv. Occurs in the foregut

Social Science ANSWER KEY

Chapter-3 (How the State Government Works)

Dear Children, this is a fun activity sheet for you. Attempt the answers in your History notebook. If you have not purchased the notebooks yet, do not go to the market rather write the answers on A4 size sheets or any other rough notebook.

Ques. Analyse the Picture given below and answer the questions that follow:



1. On which date the polling took place in Maharashtra and Haryana?  
OCTOBER 21
2. What was the total of the constituencies in Haryana and Maharashtra?  
378
3. What do you understand by the term 'Constituency'?  
An area whose voters elect a representative to a legislative body.
4. If there are 3 candidates, find out the total cap on poll expense.  
84 Lakhs
5. Why do think it's important to have elections?  
So that the people can choose their Government. Elections are important to maintain the sense of democracy.

हम पंछी उन्मुक्त गगन के  
**रचनात्मक एवं गहन चिंतन**

- 1 पक्षी पिंजरे में बंद नहीं रहना चाहते क्योंकि उड़ना उनका स्वभाव है। स्वतंत्र रहकर ही वे अपनी इच्छाएँ पूरी कर सकते हैं। पिंजरे से बाहर उड़ने की चाह में पक्षी के सुंदर पंख टूट जाएँगे।
- 2 बहती नदी का जल पीना, नीम का कड़वा फल खाना
- 3 अमर पक्षी
- 4 गरुड
- 5 कि वे उन्हें पिंजरे में बंद रखकर सुख सुविधाएँ देने की बजाय आसमान में स्वतंत्र रूप से उड़ने दें।
- 6 छात्र स्वयं करें