



## **HOLIDAY HOMEWORK 2019-20**

### **CLASS VII**

#### **ENGLISH**

1. Imaginary creatures that appear in myths are called mythological creatures. We read about one such creature, a genie in the chapter, 'Of Magic Lamps and Genies'. Genies have been a part of Arabian folklore for more than a thousand years. In your English Literature notebook do the following activities as directed:

- Draw or paste at least five mythological creatures.
- Explain their physical features and behaviour.
- Mention any five books/films they feature in.
- Write an imaginary conversation between you and the Genie in the form of a dialogue/comic strip.

2. Assignment for the month of April and May to be done in English Grammar notebook

3. There will be a Book Discussion on the title *At School With* written by Ruskin Bond. Students are to read, prepare a gist and learn all the important characters of the book

#### **हिंदी**

- 1- पुस्तक समीक्षा हेतु संपूर्ण कहानियों का पठन-पाठन कीजिए ।
- 2- अप्रैल-मई की कार्यपत्रिका व्याकरण-पुस्तिका में पूर्ण कीजिए ।
- 3- पाठ्यपुस्तक 'वसंत' के पाठ 'हिमालय की बेटियों' पर आधारित तथा कला के साथ समन्वित गतिविधि - हिमालय से निकलने वाली सभी नदियों की यात्रा का विस्तारपूर्वक वर्णन करते हुए उनसे संबंधित कोई दो कविताएँ चित्र सहित व्याकरण-पुस्तिका में लिखिए ।

#### **संस्कृत**

- गीता (द्वितीय अध्याय) के किन्हीं तीन श्लोकों को अर्थसहित सस्वर कंठस्थ करें।
  - संवाद लेखन— कक्षा में आए नए विद्यार्थी के साथ स्वपरिचय देते हुए संस्कृत में संवाद (आठ वाक्यों में) लिखें। (A-4 SIZE PASTEL SHEET)
  - कार्यपत्रिका को अभ्यास पुस्तिका में हल करें।
- मूल्यांकन— सस्वर प्रस्तुतीकरण, शुद्ध व्याकरण, समुचित शब्द प्रयोग, शुद्ध वर्तनी।

## FRENCH



Décrivez cinq festivals français et collez leur image dans votre cahier (au moins de 50 mots pour chaque festival).

## SCIENCE

Research is important in our daily lives because it makes the knowledge of humans grow even more. These ways include understanding issues and developing scientific temperament. So children here is something for you to have fun with information.

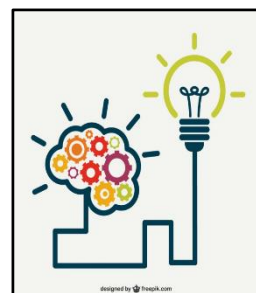


- ✚ Find out about the different breeds of sheep used to obtain wool. Which breeds are of Indian origin? How are they reared? What problems are encountered during rearing of sheep?
- ✚ Various varieties are there of silk in market. Are these obtained from the same type of silk moths? How many varieties of silk moths are found in India?
- ✚ Draw and name an animated character of a sheep or a silk worm that you will befriend to show your artistic skills.

NOTE- All homework has to be documented in a scrap book.

In order to empower students and enable them to become future technology creators and innovators by developing indigenous solutions to the local problems they see around them, students are given an opportunity to put on their thinking caps, suggest ideas/solutions and reskill them.

Students should submit their idea/content in form of a write up (500 words) sharing proposed solution in any of the 07 core theme areas- Health & Wellness, Environment, Infrastructure, Women Safety, Disability, Travel & Digital Literacy and Social Welfare on 2nd July to their respective Science teacher. Follow these steps-



- Identify a problem in your local area pertaining to given core themes.
- Suggest a solution to the problem identified.
- Write a brief account of the problem and the possible solution.

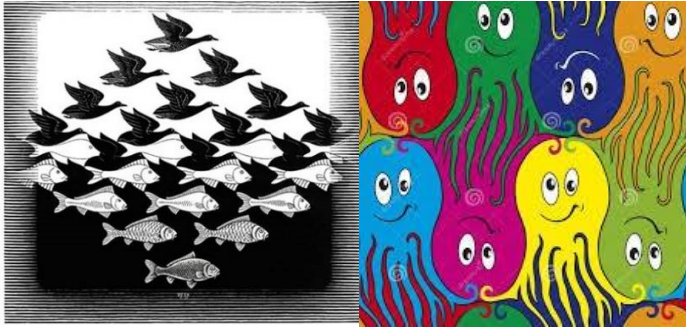
Selected students will be further guided by the mentors from NITI Aayog and make their prototypes in the month of July during Atal Tinkering Fest.

## MATHEMATICS(ARTS INTEGRATED ACTIVITIES)

### 1. MOSAIC PAINTING USING TESSELATION

A tessellation of a flat surface is the tiling of a plane using one or more geometric shapes, called tiles, with no overlaps and no gaps. In mathematics, tessellations can be generalized to higher dimensions and a variety of geometries. A periodic tiling has a repeating pattern.

Activity– Create your own painting by drawing and painting various tessellations in different sizes and colours to make your own art piece on A4 sheet. Examples are shown below.



### 2. COASTER DESIGNING–

Rotational symmetry is the property a shape has when it looks the same after some rotation by a partial turn. An object's degree of rotational symmetry is the number of distinct orientations in which it looks the exact same for each rotation.

Activity – Create any one out of these two COASTER designs which give rotational symmetry.

1. Square coaster of Size not more than 6X6 inches. Degree of rotational symmetry 4 or 8.

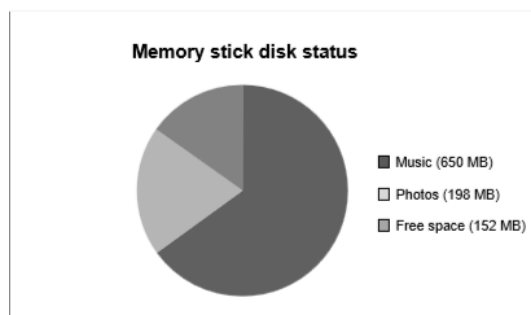
2. Circular Coaster of diameter 6 inches. Degree of rotational symmetry 3 or 6.



Solve Assignment for the month of April and May from Assignment Booklet in your note book.

### 3. Solve the following PISA (Programme for International Student Assessment) Based Questions in your note book.

MEMORY STICK A memory stick is a small, portable computer storage device. Rahul has a memory stick that stores music and photos. The memory stick has a capacity of 1 GB (1000 MB). The graph below shows the current disk status of his memory stick.



Question 1: Rahul wants to transfer a photo album of 350 MB onto his memory stick, but there is not enough free space on the memory stick. While he does not want to delete any existing photos, he is happy to delete up to two music albums. Rahul's memory stick has the following size music albums stored on it.

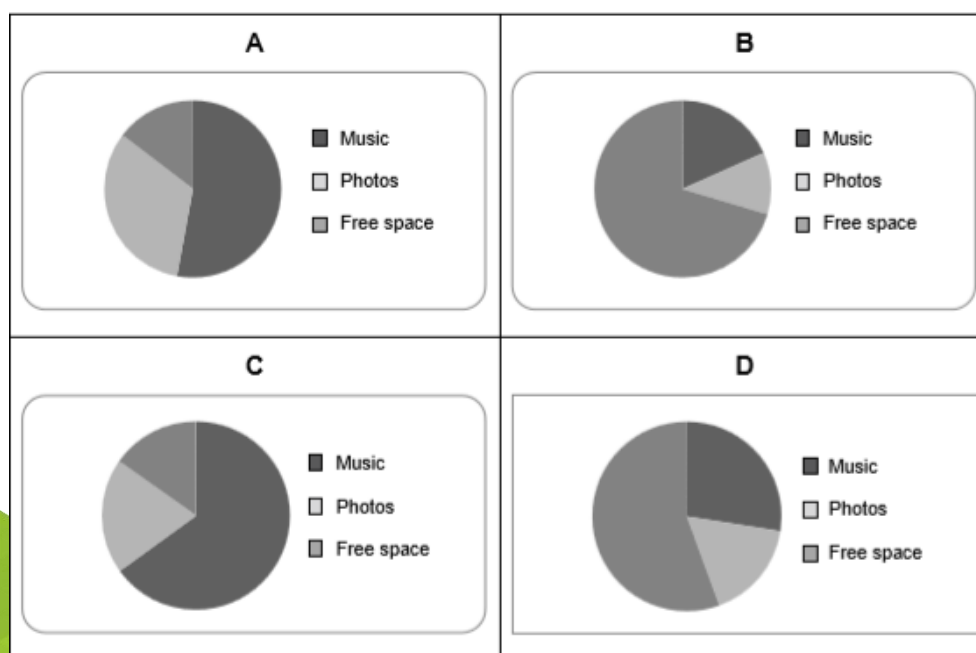
Album	Size
Album 1	100 MB
Album 2	75 MB
Album 3	80 MB
Album 4	55 MB
Album 5	60 MB
Album 6	80 MB
Album 7	75 MB
Album 8	125 MB

By deleting at most two music albums is it possible for Ivan to have enough space on his memory stick to add the photo album? show calculations to support your answer.

Question 2: During the following weeks, Rahul deletes some photos and music, but also adds new files of photos and music. The new disk status is shown in the table below:

Music	550 MB
Photos	338 MB
Free space	112 MB

His brother gives him a new memory stick with a capacity of 2GB (2000 MB), which is totally empty. Rahul transfers the content of his old memory stick onto the new one. Which one of the following graphs represents the new memory stick's disk status?



## SOCIAL SCIENCE

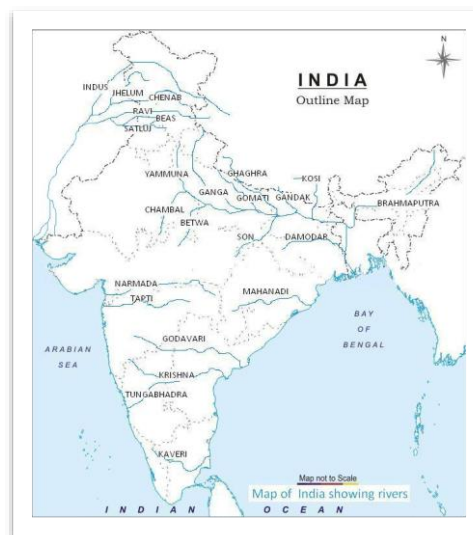
### GEOGRAPHY

While walking or travelling collect any three types of rock samples. Identify the type of rocks- igneous, sedimentary or metamorphic. Prepare a small write up explaining the origin of the three rock samples collected by you. This write up has to be presented in the class along with the samples.



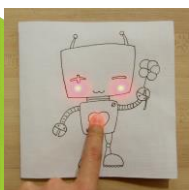
### HISTORY

On a similar physical map of India mark any five medieval cities of India (700CE-1700CE). Name the rivers on the banks of which they are located.



## INFORMATION TECHNOLOGY & ARTIFICIAL INTELLIGENCE

- I) Take your family photograph o. Edit the image using GIMP. Mail the original and edited image to [bbps.evision@gmail.com](mailto:bbps.evision@gmail.com) latest by 10 July '19.
- II) Write a letter to your future self by imagining yourself in an AI powered 2030. Compare the present scenario with the futuristic world. Use your creativity and make the future as smart as you can. Submit a printout after summer vacations.
- III) Use your imagination and prepare a glowing card using paper circuit. You can make a Smart home in which the light glows when someone is at the door!



This is an example of a glowing card in which the Robot blushes on touching its heart. The technique is simple. U need two led's, copper wire/tape and a coin cell. Join them and see the magic. Refer to [www.cirkitree.com](http://www.cirkitree.com) for step by step method of creating a paper circuit.

Submit your glowing card to your teacher after the vacations!