

पुर्ना International School Shree Swaminarayan Gurukul, Zundal



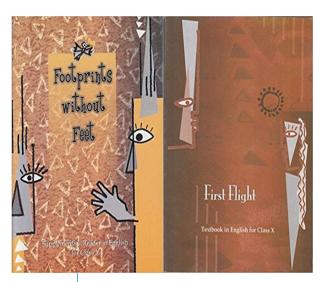
Reflections on Grade X Teaching methodology For August 2019

- 1) English
- 2) Maths
- 3) Hindi

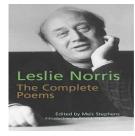
4) Social Studies 5) Science



Glance at lessons of August 2019









Lucio Rodrigues Leslie Norris Robin Klein Forsyth

1) A Tiger In the Zoo
2) A Baker from Goa
Prose 3) Coorg

4) Amanda

5) Animals

1) The midnight Visitor

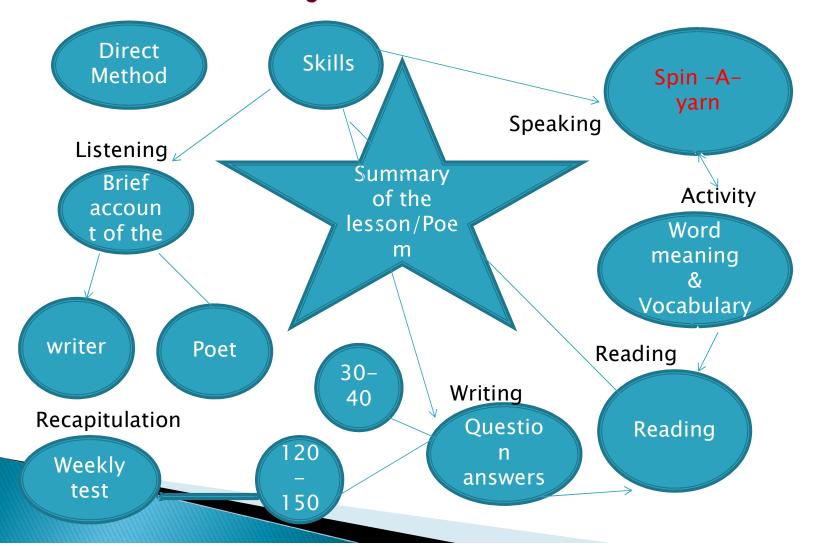
2) A Question of Trust

Supplementary Reader

Poetry



Teaching Methodology



3 , 14/07/2018



Teaching Aids

Poem AMENDA

Flow chart Flash Cards

A small Child

Nagging Parents

Unhappy with the interference

Dreams of Freedom



Leads a calm life Rapunzel

Feels orphan



Robin Klein

Emerald only inhabitant

Wishes to lead life of mermaid

Sight words
Pronunciation
Sentences

Slouching Mermaid Hushed

Tranquil Sulking Patterns

Youtube Video

https://www.youtube.com/watch?v=h4RfAfpSaTg



PAPER STYLE

Α	Section	Reading skills	20 Marks
В	Section	Writing with grammar	30 Marks
C	Section	Literature TB & Extended Reading	30 Marks
Sec	ction A Rea	20 Marks	
Q1	: A factual	8 Marks	
Q2	:A discurs	12 marks	
	answer typ	oe to test vocabulary.	
Sec	ction B Wri	30 marks	
Q3	: Writing a	n article/ descriptive paragraph(person	
	place eve	nt /diary entry) $$	s 8 Marks
Q4	: Writing a	10 Marks	
Q5	: Gap filling articles, c	n, 4 Marls	
Q6	: Editing /	4 Marks	
Q7	: Sentence in context	reordering / sentence transformation	4 marks



Paper style

Section C 30 Marks

- Q8 : One out of two extract from prose/ poetry/ play . Four very 4 Marks short answer qs
- Q9: Five short answer type qs. From Beehive and Moments (3 from 10 Marks Beehive 2 from moments) 30–40 words.
- Q 10: One out of 2 long answer type qs from Beehive to assess creativity, 8 Marks imagination beyond the text book (100 150 words)
- Q11: One out of two long answer qs . From Moments on theme or plot 8 Marks interpretation beyond the text or character sketch





MATHS PROBABILITY

The **outcomes** of an experiment are the ways it can





The **event** is the particular outcome we are looking for.

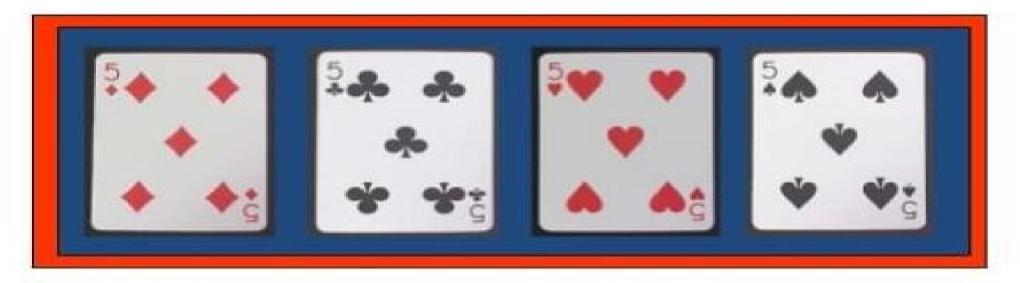
The Probability of an Event

P(Event) = the number of ways the event can happene number of all possible outcomes



$$P(H+T) = 2 = 1$$
1
4

CARD



What is the probability of getting 4 fives?

$$P(4 \text{ fives}) = \frac{4}{52}$$



What is the probability of rolling two coins and getting H first and then T?

$$P(H \& then T) =$$

DICE

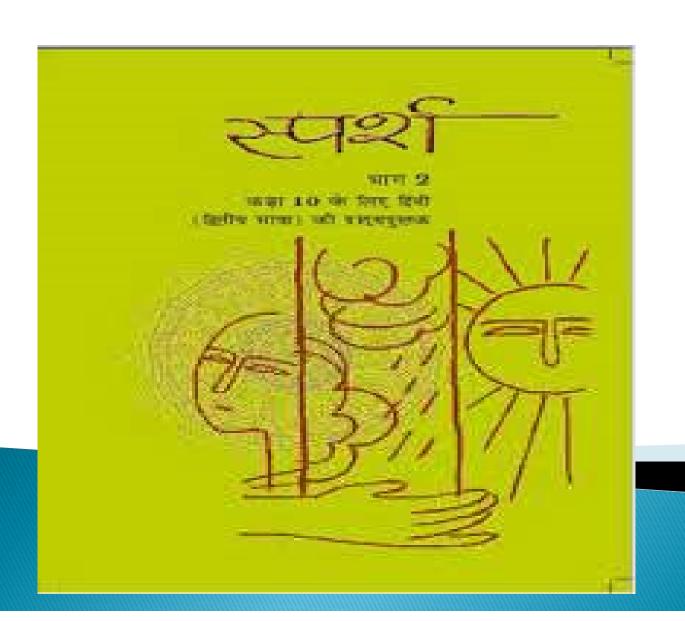


What is the probability of getting an even number? $P(even) = \frac{2}{13}$

Random Experiment...

 ...a random experiment is an action or process that leads to one of several possible outcomes.
 For example:

Experiment	Outcomes
Tossing a coin	Heads, Tails
Exam Marks	Numbers: 0, 1, 2,, 100
Throwing a die	1,2,3,4,5,6







पर्वत प्रदेश में पावस

up spinetty

Com In reset Source

सुमित्रानंदन पंत

मूल नामः गोसाई दत्त

जन्मः सन् 1900, कौसानी, जिला अल्मोड़ा (उत्तरांचल)

प्रमुख रचनाएँ: वीणा, ग्रंथि, पल्लव, गुंजन, युगवाणी,

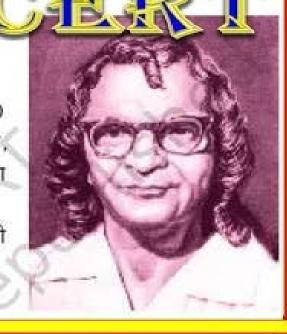
ग्राम्या, चिंदवरा, उत्तरा, स्वर्ण किरण, कला और बूढ़ा

चाँद, लोकायतन आदि

सम्मानः भारतीय ज्ञानपीठ पुरस्कार, साहित्य अकादमी

पुरस्कार, सोवियत लैंड नेहरू पुरस्कार, पद्मभूषण

मृत्युः सन् 1977



पर्वत प्रदेश में वर्षा ऋतु में प्राकृतिक सौंदर्य कई गुना बढ़ जाता है। वहाँ क्षण-क्षण प्रकृति अपना वेश बदलती-सी नज़र आती है। कभी धूप चमकती नज़र आती है, कभी सूर्य बादलों की ओट में छिप जाता है, कभी प्रकृति का सुहावना रंग दिखाई देता है, तो कभी इतने घने बादल छा जाते हैं कि पर्वत तक अदृश्य हो जाते हैं। मात्र झरनों का शोर सुनाई देता रहता है। अचानक घनघोर वर्षा होने लगती है। निःसंदेह पर्वतों की प्रकृति के ये बदलते दृश्य सुहावने तो लगते हैं। पर्यटकों को आकर्षित भी करते हैं, परंतु पहाड़ों पर रहने वाले लोगों के लिए यह मौसम कठिनाइयों का कारण भी बन जाता है। वर्षा ऋतु में बादलों का फटना, चट्टानों का खिसकना बर्फीले तूफानों का आना एक आम समस्या है, जिसमें गाँव-के-गाँव तबाह हो जाते हैं। फिसलन भरे रास्तों के कारण यातायात व्यवस्था ठप्प पड़ जाती है जिससे रोजमर्रा के लिए आवश्यक सामग्री तक उचित समय पर नहीं पहुँच पाती। चिकित्सा-सुविधाएँ न पहुँचना, संचार व्यवस्था का ठप्प होना, सड़कों का टूटना, ऐसी अनेक समस्याएँ हैं। जिनका सामना इन पर्वतीय अंचल में रहने वाले लोगों को करना पड़ता है।

लेखन विधि -

-) काव्यांशों की विस्तृत व्याख्या -शब्दार्थ सन्दर्भ ट्याख्या निष्कर्ष
- लघु उत्तरीय प्रश्नोत्तरनिबंधात्मक प्रश्नोत्तर

पुनरावर्तन

- > व्याख्याओं का मौखिक अभ्यास
- > प्रश्नोत्तर का मौखिक अभ्यास
-) श्रुतिलेख) साप्ताहिक टेस्ट

HISTORY CH-5 PRINT CULTURE & THE MODERN WORLD

TOPIC AND SUB TOPIC OBJECTIVE OF TEACHING:

The student will be able to;

- recognize the first kind of print technology developed in China,
 Japan and Korea.
- understand how print technology spread to Europe from China
- describe the print revolution and its impact.
- Appraise the leaps in mass literacy in Europe.
- list the religious reforms and public debates which took place as a result of the development in print media.
- identify the new forms of publication.

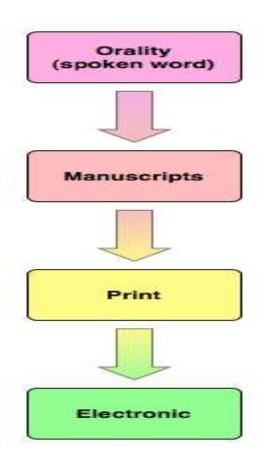
TEACHING METHOD

- Notes will be provided to students.
- Explanation with examples
- Video session in Digital class room.
- Activity: Poster Designing book seller

Teaching material:

1. PICTURES





2. VIDEO : FOR COMPARISION OF ANCIENT AND MODERN PRINTING TECHNIQUE

Economics CH-3



MONEY AND CREDIT

TOPIC AND SUB TOPIC OBJECTIVE OF TEACHING:

The student will be able to:

- identify the importance of money as a medium of exchange.
- recognize the modern forms of money.
- analyze the terms of credit.
- distinguish between formal and informal credit.

TEACHING METHOD

- Notes will be provided to students.
- Explanation with examples
- ■Visit to Bank

Teaching material:

1. <u>PICTURES:</u> Different forms of money







CHAPTER - 5

PERIODIC CLASSIFICATION OF ELEMENTS

1) Classification of elements :-

The arranging of elements into different groups on the basis of the similarities in their properties is called classification of elements.

The classification of similar elements into groups makes the study of elements easier.

There are about 114 different elements known so far.

- 2) Early attempts at classification of elements :-
- a) The earliest attempt to classify elements was grouping the then known elements (about 30 elements) into two groups called metals and non metals.

The defect in this classification was that it had no place

for metalloids (elements which have properties of both metals and non metals) which were discovered later.

b) **Dobereiner's Triads**:-

Dobereiner classified elements in the increasing order of their atomic masses into groups of three elements called triads. In each triad the atomic mass of the middle element was approximately equal to the average atomic mass of the other two elements.

The defect in this classification was that all the then known elements could not be correctly arranged into triads.

	Triad	Atomic mass	Average atomic mass of I st and 3 rd element	
Lithium Sodium Potassium	Li Na K	6.9 23.0 39.0	22.95	
Calcium Strontium Barium	Ca Sr Ba	40.1 87.6 137.3	88.7	
Chlorine Bromine Iodine	CI Br I	35.5 79.9 126.9	81.2	

c) Newland's octaves :-

Newland classified the elements in the increasing order of their atomic masses into groups of eight elements called octaves like the notes of music. He found that when the elements were arranged in the increasing order of their atomic masses into octaves then there was similarity of properties in every eighth element.

sa	re	ga	ma	ра	da	ni
Н	LI	Ве	В	С	N	0
F	Na	Mg	Al	Si	Р	S
CI	K	Ca	Cr	TI	Mn	Fe
Co and Ni	Cu	Zn	Y	In	As	Se
Br	Rb	Sr	Ce and La	Zr	-	-

The defect in this classification was:-

i) All the known elements and elements discovered later could not be correctly arranged into octaves.

ii) Some elements having different properties were placed in the same rows like cobalt and nickel having different properties are placed along with Fluorine, Chlorine and Bromine. Iron having properties similar to Cobalt and Nickel are placed in different rows.

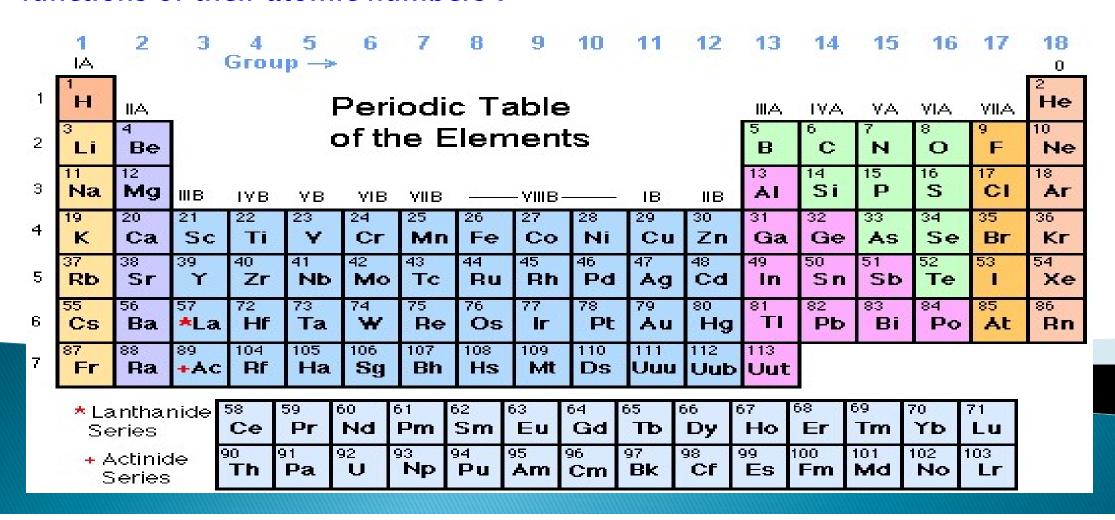
3a) Mendeleev's periodic law:-

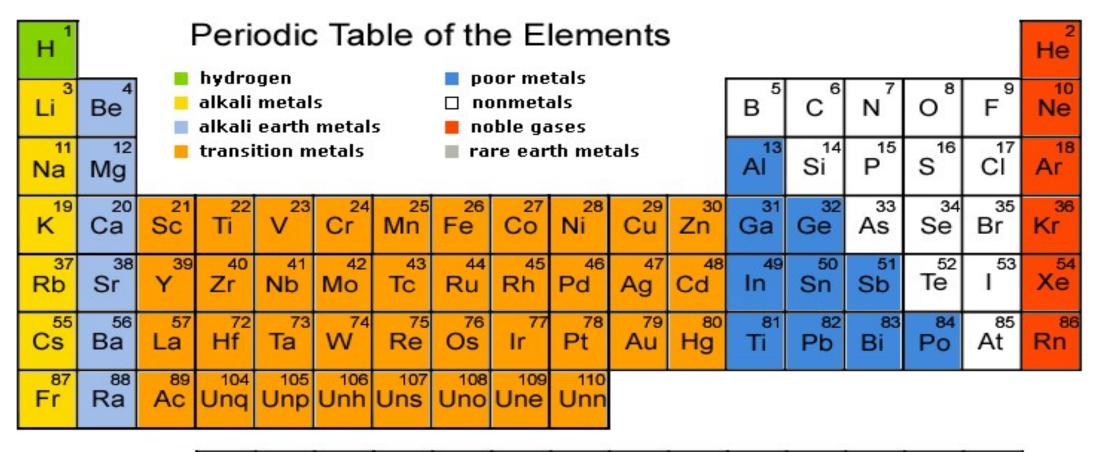
Mendeleev's periodic law states that, 'The properties of elements are periodic functions of their atomic masses'.

A B	A B	A B	АВ	A B	A B	АВ			
							Trans	ition series	5
H 1.01	11	Ш		>	VI	VII			
Li 6.94	Be 9.01	B 10.8	C 12.0	N 14.0	O 16.0	F 19.0			
Na 23.0	Mg 24.3	AI 27.0	Si 28.1	P 31.0	S 32.1	CI 35.5		VIII	
K 39.1	Ca 40.1		Ti 47.9	V 50.9	Cr 52.0	Mn 54.9	Fe 55.9	Co 58.9	Ni 58.7
Cu 63.5	Zn 65.4	į.		As 74.9	Se 79.0	Br 79.9			
Rb 85.5	Sr 87.6	Y 88.9	Zr 91.2	Nb 92.9	Mo 95.9		Ru 101	Rh 103	Pd 106
Ag 108	Cd 112	In 115	Sn 119	Sb 122	Te 128	1 127			
Ce 133	Ba 137	La 139		Ta 181	W 184		Os 194	Ir 192	Pt 195
Au 197	Hg	Ti 204	Pb 207	Bi 209					
	8-		Th 232		U 238	_			

4a) Modern periodic law:-

Modern periodic law states that, 'The properties of elements are periodic functions of their atomic numbers'.





Ce 58	Pr	Nd 60	Pm	Sm ⁶²	Eu	Gd ⁶⁴	Tb ⁶⁵	Dy 66	Ho Ho	Er	Tm	Yb ⁷⁰	Lu 71
Th 90	Pa Pa	U ⁹²	Np 93	94 Pu	Am	Cm ⁹⁶	97 Bk	Cf 98	Es 99	Fm	Md	102 N O	103 Lr

5. Properties of elements in periods and groups:-

i) <u>Valence electrons</u> :-

In a period the number of valence electrons increases from 1 to 8 from the left to the right and the number of shells is the same.

In a group the number of valence electrons is the same for all the elements but the number of shells increases from top to bottom.

Elements	AN	EC V	′ E	Shells			
H	7	7					
Ĺi	3	2,1	1	2			1
Na	11	2,8,1	1	3			
K	19	2,8,8,1	1	4			

ii) Valency :-

In a period the valency of the elements increases from 1 to 4 and then decreases from 4 to 0 from the left to the right.

In a group the valency is the same for all elements of the group.

iii) Atomic size (Radius of the atom):-

In a period the atomic size of the elements decreases from the left to the right because the nuclear charge (number of protons) increases and so the electrons are pulled closer to the nucleus.

In a group the atomic size of the elements increases from top to bottom because the number of shells increases and the distance between the nucleus and shells also increases.

Elements	AN	EC	VE	Shells		
	ATTITUTE TO THE		1		Atomic	
Li	3	2,1		2	size	
Na	11	2,8,1	1	3	increases	
K	19	2,8,8	1 1	4		
					•	

iv) Metallic property (Electropositive nature) :-

In a period the metallic property of the elements decreases from the left to the right.

Eg :- 3rd Period Elements - Na, Mg, Al, Si, P, S, Cl, Ar

↓Metalloid Metals

Non metals

Metallic property decreases

In a group the metallic property of the elements increases from the top to the bottom.

Eg:- Group VI A

Elements

Carbon

Non metal

Metallic

Silicon

Si - Metalloid

property

Germanium Ge - Metalloid

increases

Sn – Metal

Lead

Pb - Metal

v) Non metallic property (Electronegative nature) :-

In a period the non metallic property of the elements increases from the left to the right.

In a group the non metallic property of the elements decreases from the top to the bottom.



· Light is the form of energy that enables us to see.

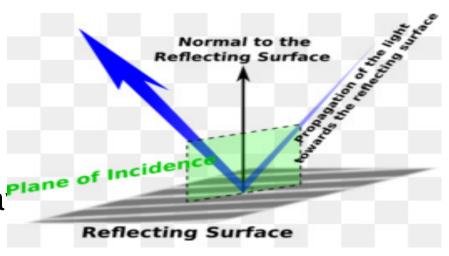
What is Light?

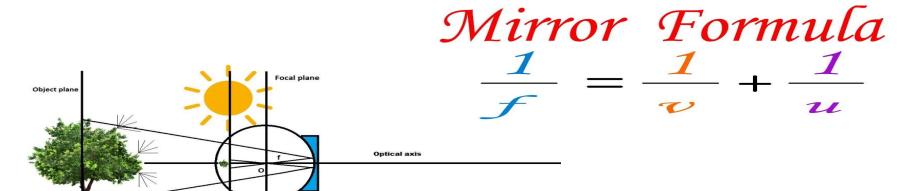
- Light is a wave, or rather acts like a wave.
- How do we know?
 - Reflection
 - Refraction
 - Dispersion
 - Diffraction
 - Interference
 - Polarization



Topic of Light

- Properties of Light
- Reflection
- Ray diagrams of conca Convex Mirror

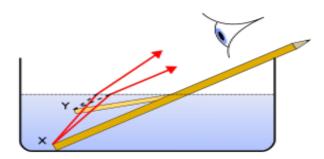


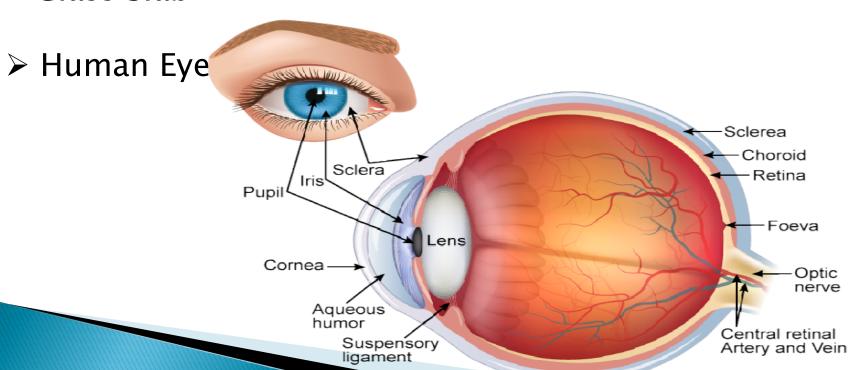


Topic of Light



➤ Refraction through Glass Slab





Practicals

- Determination of the focal length of:
- i) Concave mirror
- ii) Convex lens by obtaining the image of a distant object

Typology of Questions

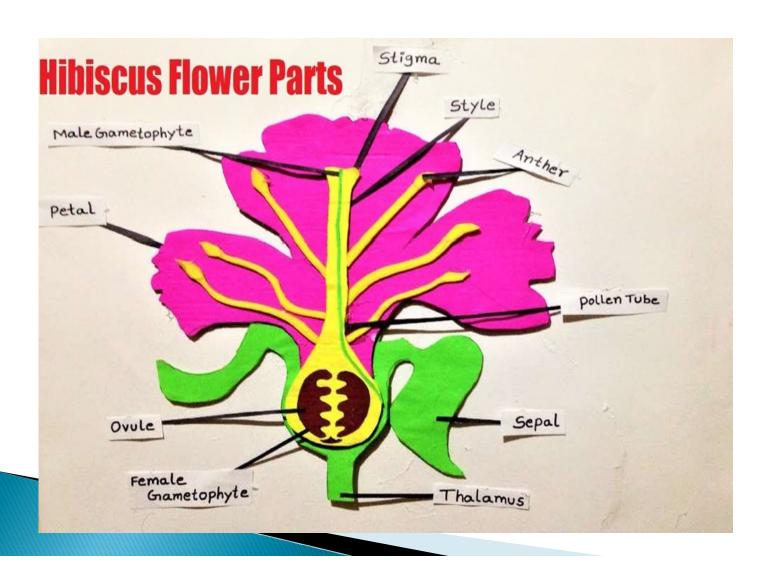
Board Examination -Theory

- M.C.Q
- Short Answer (03 marks)
- Long Answer (05 marks)

Bibliography

- NCERT Book
- YouTube Video

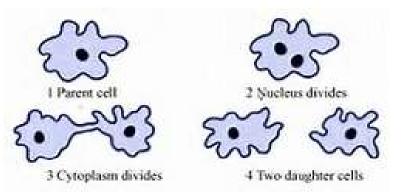
BIOLOGY

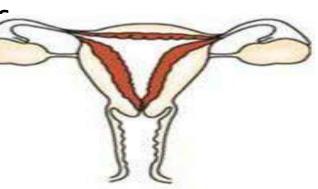


REVIEW SCIENCE: AUGUST COURSE

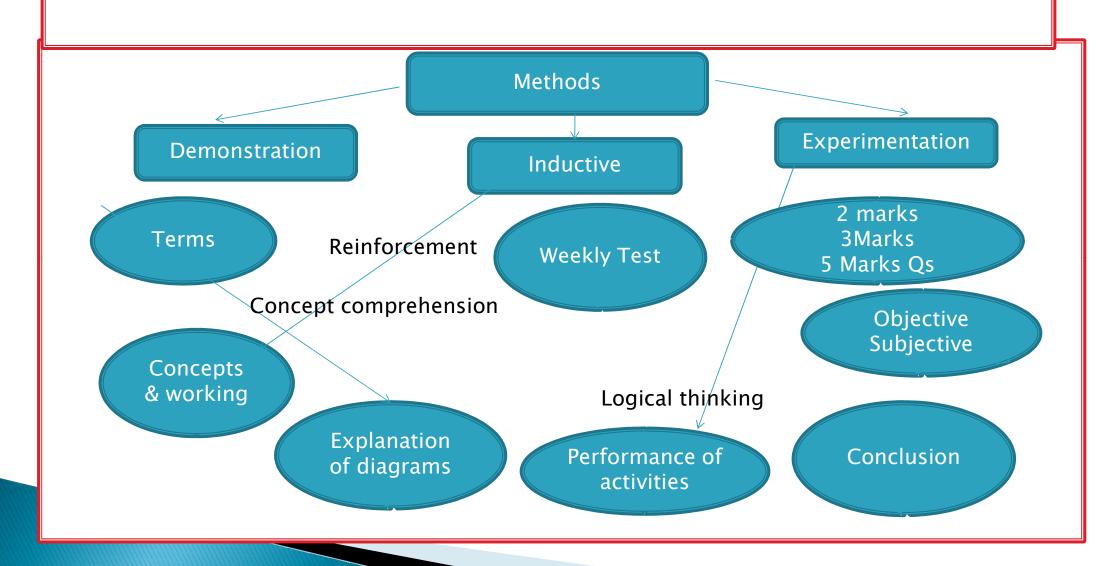
Chapter 8 How Do Organisms Reproduce

Basics of reproduction
Asexual reproductions
Vegetative reproduction
Sexual reproduction in plants
Reproduction in human bei





TEACHING METHODOLOGY



Teaching Aids

Diagrams Flash cards -Pollen grain Stigma Male gamete April of Pollen tube Stigme. dame en Ovary. Ovule Race stable Pollen tube growth and Female its entry into the ovule Corolla gynoecium Sporangium Male Spores androecium Hyphai anther

calyx

filament

Fig. 12.7 Reproduction through spore formation in fungus

Teaching Aids

- Demonstration of Experiments.
- Studying (binary fission in Amoeba)



Continued Teaching aids

- Youtube videos
- https://www.youtube.com/watch?v=kapHnEw7EgM&feature=youtu.b
 e
- https://www.youtube.com/watch?v=-yriYncPrd4
- https://www.youtube.com/watch?v=-3qEjzzGF0I

Science Paper style

- The question paper comprises of five sections A,B,C,D and E
- All question are compulsory
- Internal choice is given in Sections B, C,D and E
- Sec.A Q no 1 and 2 in this section are 1 mark each.
- Q. No 3-5 in Section B are 2 marks each to be answered in 30 words
- Q. No 6-15 in section C are 3 marks each. They are to be answered in 50 words.
- Q. No 16-21 in Section D are 5 marks each .they are to be answered in 70 words
- Q. No 22-27 in Section E are based on practical skills. Each questions is of 2 marks each

I HOPE YOU HAVE GAINED KNOWLEDGE BY VIEWING THIS PRESENTATION.

THANK YOU.