



SSC GK

PYQs Class Notes

PART-3

Parmar Sir

Lecture:- 40

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1.

Which Manipuri dance expert founded Govindji Nartanalaya dance school for women in Imphal?

किस मणिपुरी नृत्य विशेषज्ञ ने इफाल में महिलाओं के लिए गोविंदजी नर्तनालय नृत्य विद्यालय की स्थापना की?

- | | |
|-----------------------------|--------------------------|
| 1. Guru Bipin Singh | 1. गुरु बिपिन सिंह |
| 2. Guru Amubi | 2. गुरु अमुबी |
| 3. Rajkumar Singhajit Singh | 3. राजकुमार सिंहजीत सिंह |
| 4. Phanjoubam Iboton Singh | 4. फंजबाम इबोटन सिंह |

- Raas Leela is performed
- Dedicated to lord Krishna
- Dance forms: Jagoi, Cholom

"Hanjaba" title given by Maharaja of Manipur

2.

The Kolar Gold Fields is located in which state of India?

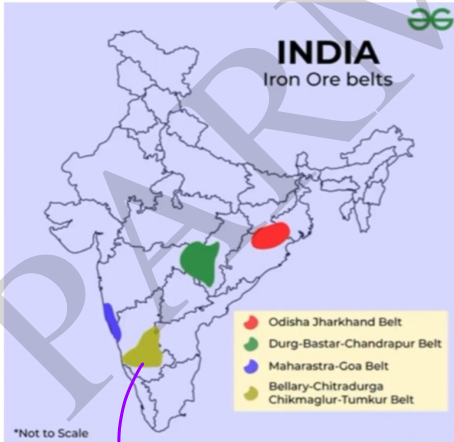
कोलार गोल्ड फील्ड भारत के किस राज्य में स्थित है?

- | | |
|-------------------|---------------------------|
| 1. Karnataka | → Other: Hutti Gold mines |
| 2. Jharkhand | |
| 3. Kerala | |
| 4. Andhra Pradesh | |

Famous for coal mines: Jharia, Dhanbad, Bokaro

Famous for Monazite Sand → Rich in Rare Earth Elements

→ Thorium



Kudremukh Mines

Iron

Ores

Hematite

Magnetite → Has highest % of iron (roughly 70%)

Limonite

Reserves

• Topmost: Odisha (Hematite)

• Karnataka (Magnetite)

• Topmost reserve in the world: Australia

Production

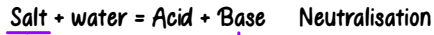
• Odisha > Chattisgarh > Karnataka

3.

Which of the following statements is/are correct?
 I. Salts of a strong acid and weak base are acidic with pH value less than 7.
 II. When electricity is passed through an aqueous solution of sodium chloride (called brine), it decomposes to form sodium oxide.

निम्नलिखित में से कौन सा/से कथन सही है/हैं?
 I. प्रबल अम्ल और दुर्बल क्षार के लवण अम्लीय होते हैं जिनका pH मान 7 से कम होता है।
 द्वितीय। जब सोडियम क्लोराइड (जिसे नमकीन कहा जाता है) के एक जलीय घोल से बिजली प्रवाहित की जाती है, तो यह सोडियम ऑक्साइड बनाने के लिए विघटित हो जाता है।

1. Neither I nor II
 2. Both I and II
 3. Only II
- ✓ Only I

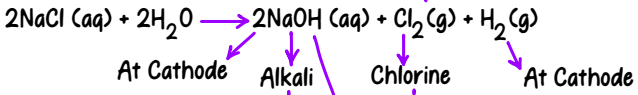


Antacid
 • Eg: Milk of Magnesia → $Mg(OH)_2$

- * Can be acidic or basic → Depends on the strength of an acid or base
- Acid: $pH < 7$
- Base: $pH > 7$
- Neutral: $pH = 7$



Chlor Alkali process



- Alkalis are those bases that dissolve in water
- All alkali are bases, but all bases are not alkali
- Also used to make baking soda and washing soda
- Baking Soda (Sodium bicarbonate): $NaHCO_3$

Used as soda acid fire extinguisher along with H_2SO_4 and used as baking powder

Act as a bleaching agent
 Bleaching powder (Calcium hypochlorite): $Ca(OCl)_2$

Washing soda: $Na_2CO_3 \cdot 10H_2O$

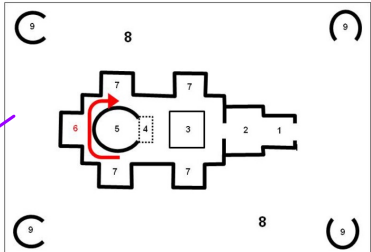
4.

Select the correct combination of the temple and the state in which it is located.

- मंदिर और जिस राज्य में यह स्थित है उसका सही संयोजन चुनें।
1. Mahakaleshwar Jyotirlinga-Uttarakhand → Ujjain
 2. Somnath Jyotirlinga Temple-Maharashtra → Gujarat
 3. Kamakhya Temple-Assam → Odisha
 4. Jagannath Temple-West Bengal
1. महाकालेश्वर ज्योतिर्लिंग-उत्तराखंड
 2. सोमनाथ ज्योतिर्लिंग मंदिर-महाराष्ट्र
 3. कामाख्या मंदिर-असम
 4. जगन्नाथ मंदिर-पश्चिम बंगाल

Ambabuchi Mela is celebrated here

1st panchayatana style temple built in India:
 Dashavatara Temple, Deogarh (UP)



Panchayatana Style

1. Archa mandapa
2. Mandapa
3. Maha mandapa
4. Antarala
5. Garba griha
6. Pradakshina
7. Transepts
8. Jagati
9. Subsidiary shrines

Plan of Kandariya Mahadeva Temple

5. Which Article of the Indian Constitution lays the condition that the President, once elected, shall NOT be a member of the either House of Parliament or state legislature?

भारतीय संविधान का कौन सा अनुच्छेद यह शर्त रखता है कि राष्ट्रपति एक बार निर्वाचित होने के बाद इसका सदस्य नहीं होगा?
या तो संसद का सदन या राज्य विधानमंडल?

- | | |
|---------------|----------------|
| 1. Article 79 | 1. अनुच्छेद 79 |
| 2. Article 80 | 2. अनुच्छेद 80 |
| 3. Article 62 | 3. अनुच्छेद 62 |
| 4. Article 59 | 4. अनुच्छेद 59 |

Time of holding election to fill the vacancy in office of President

Composition of Parliament

Composition of Council of States

Vacancy of office of President can be created through

Death

Term completion → 5 yrs

Resignation

VP/Senior most judge of SC becomes the President

Art 61: Impeachment of President → All MPs participate

Art 54: Electoral College → All elected members participate (MPs + MLAs)

6. The Landholder's Society was founded to look after the interests of which class?

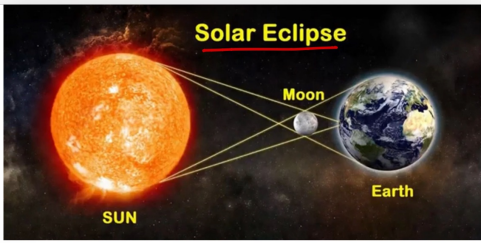
लैंडहोल्डर सोसायटी की स्थापना किस वर्ग के हितों की देखभाल के लिए की गई थी?

- | | |
|--------------|-------------|
| 1. Traders | 1. व्यापारी |
| 2. Labour | 2. परिश्रम |
| 3. Farmers | 3. किसान |
| 4. Landlords | 4. जमींदार |

7. Which among the following is not a type of solar eclipse?

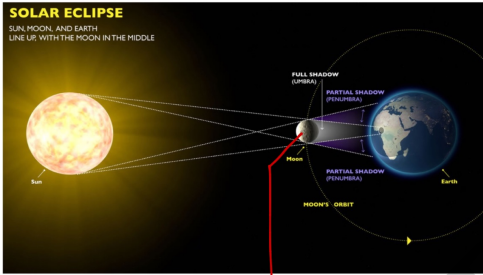
निम्नलिखित में से कौन सा सूर्य ग्रहण का प्रकार नहीं है?

1. Annular
2. Partial
3. Penumbral
4. Total



• Sun (at its constant position) is obscured by the moon

↓
New Moon
- Amavasya



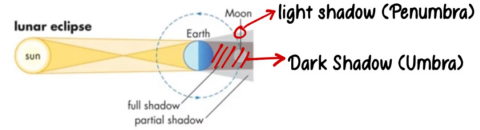
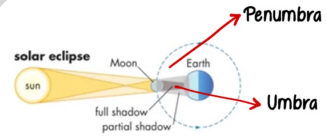
Moon is blocking Sun's light



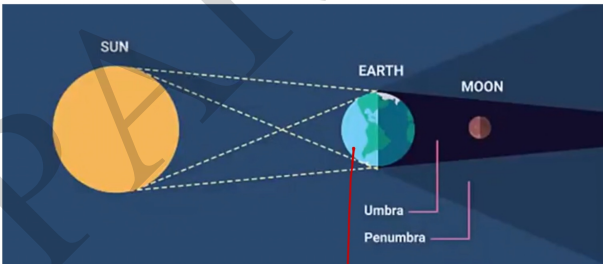
Total Solar Eclipse

Annular Solar Eclipse

Partial Solar Eclipse



Lunar Eclipse



• Full Moon condition- Purnima

Earth blocks Sun's light (light refraction) → scatters more causing **blue colour** light to vanish and **red** → scatters less light to reach moon

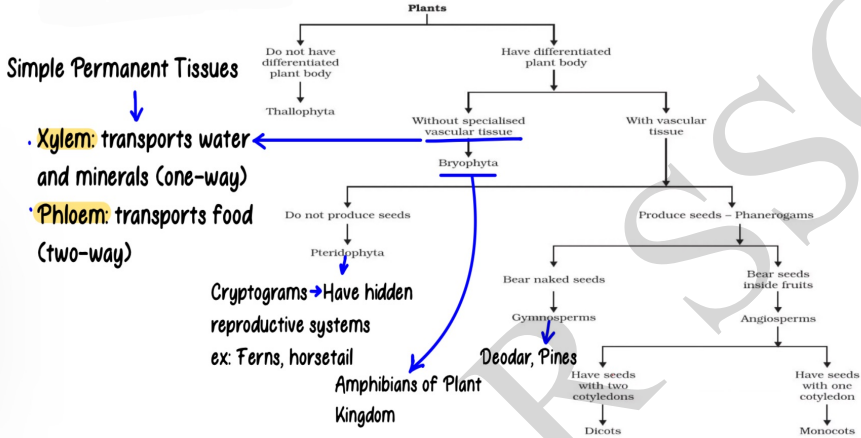
• Diwali is celebrated on Amavasya
• Rest most of the festivals are celebrated on Purnima

8.

Which of the following is a common type of Bryophyta?

निम्नलिखित में से कौन सा ब्रायोफाइटों का सामान्य प्रकार है?

1. Cladophora
2. Marsilea → Fern
3. Marchantia
4. Monocot



Simple Permanent Tissues

- **Xylem:** transports water and minerals (one-way)
- **Phloem:** transports food (two-way)

9.

Which of the following is NOT a correct match?

निम्नलिखित में से कौन सा सही मेल नहीं है?

1. Conductance - Siemens
 2. Voltage - Volts
 3. Capacitance - Dyne
 4. Resistance - Ohm
1. घासन - सीमेंस
 2. वोल्टेज - वोल्ट
 3. धारिता - डायन
 4. प्रतिरोध - ओम

CGS unit of Force

• $1N = 10^5$ dyne

Opposite of Resistance

$V = IR$

Resistance

S.I unit Ohm (Ω)

$R = \frac{\rho L}{A}$

SI unit: Farad

SI Units

• **Frequency:** s^{-1} /Hertz

• **Sound:** Dobson (Db)

• **Power of lens:** measured in Dioptre (m^{-1})

• **Current measured in:** Ampere

Resistivity/Specific resistance

$\rho = \text{mho}/\text{ohm}^2$

$\Omega = \frac{1 \text{ m}}{\text{m}^2}$

$\Omega \text{ m} = \rho$

S.I unit

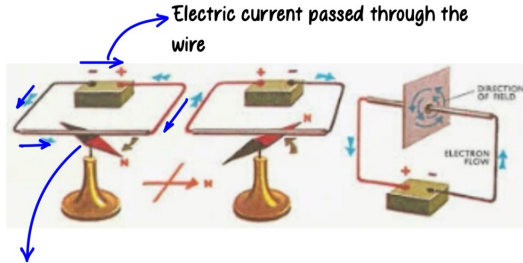
The resistivity of a material is the resistance of a wire of that material

Magnetic Effect of Electric Current

Discovery

Hans Christian Orsted in 1820

Heating effect of electric current: James Joule (1840)



Causing deflection in the compass whenever there is a current in wire showing current carrying wire produces a magnetic field around it

Direction of magnetic field changes due to change in direction of current in the wire

10. Choose the INCORRECT statement out of the following.

निम्नलिखित में से गलत कथन का चयन करें।

- There is increase in rainfall generally from east to west in the Northern Plains.
- Most parts of the country receive rainfall from June to September.
- The annual precipitation in Meghalaya is over 400 cm.
- Some parts like the Tamil Nadu's coast gets a large portion of its rains during October and November.

- उत्तरी मैदान में सामान्यतः पूर्व से पश्चिम तक वर्षा में वृद्धि होती है।
- देश के अधिकांश भागों में जून से सितम्बर तक वर्षा होती है।
- मेघालय में वार्षिक वर्षा 400 सेमी से अधिक है।
- तमिलनाडु के तट जैसे कुछ हिस्सों में बारिश का एक बड़ा हिस्सा अक्टूबर और नवंबर के दौरान होता है।

11.

The age of the Earth is currently thought to be:

वर्तमान में पृथ्वी की आयु मानी जाती है:

- | | |
|----------------------|-----------------|
| ✓ 4.5 billion years | 1. 4.5 अरब वर्ष |
| 2. 3.5 billion years | 2. 3.5 अरब वर्ष |
| 3. 4 billion years | 3. 4 अरब वर्ष |
| 4. 5 billion years | 4. 5 अरब वर्ष |

George Lemaitre: 1931

Edwin Hubble

→ Increase in distance of celestial bodies

Origin of 'Big Bang Theory'. Also, → Explosion → 13.6 billion years ago known as 'Big Bang Explosion'

→ 4.5 billion years ago

FORMATION OF OUR SOLAR SYSTEM

- **Nebular Theory, 1755:** by Immanuel Kant
1796: modified by Laplace
- **Nebula:** A giant cloud of dust and gas

12. Consider the following statements regarding the Indo Greeks.

इंडो यूनानियों के संबंध में निम्नलिखित कथनों पर विचार करें।

1. The most celebrated Indo-Greek ruler was Menander.
 2. Menander has been identified with King Milinda mentioned in the famous Buddhist text Milindapanho.
 3. Milindapanho contains philosophical questions that Milinda asked Amrapali.
 4. Impressed by the answers, King Milinda accepted Buddhism as his religion.
1. सबसे प्रसिद्ध इंडो-ग्रीक शासक मिनांडर था।
 2. मिनांडर की पहचान प्रसिद्ध बौद्ध ग्रंथ मिलिंदपण्हो में वर्णित राजा मिलिंद से की गई है।
 3. मिलिंदपण्हो में दार्शनिक प्रश्न हैं जो मिलिंद ने आम्रपाली से पूछे थे।
 4. उत्तरों से प्रभावित होकर राजा मिलिंद ने बौद्ध धर्म को अपना धर्म स्वीकार कर लिया।

Which among the above statements are correct.

1. Only 3, 2 and 4
2. Only 1, 2 and 3
3. Only 1, 3 and 4
4. Only 1, 2 and 3

Introduced 1st gold coins → Depicted rulers photo on coins

Purest form of gold coins: by Kushans

Largest no. of gold coins: by Guptas

13. Who among the following was the successor of Muhammad-Bin Tughlaq to the throne?

निम्नलिखित में से कौन मुहम्मद-बिन तुगलक के सिंहासन का उत्तराधिकारी था?

1. Ghiyath-ud-din Tughlaq Shah II
2. Abu Bakr Shah Tughlaq
3. Nais-ud-Din Mahmud Shah Tughlaq
4. Firuz Shah Tughlaq

1. गियाथुद्दीन तुगलक शाह द्वितीय
2. अबू बक्र शाह तुगलक
3. नाईस-उद-दीन महमूद शाह तुगलक
4. फिरोज़ शाह तुगलक

Known as Wisest fool

Started: Diwan-i-Kohi (Agriculture department)

Jaunpur (UP) city also known as Shiraz-e-Hind was founded by him Sultan of Delhi

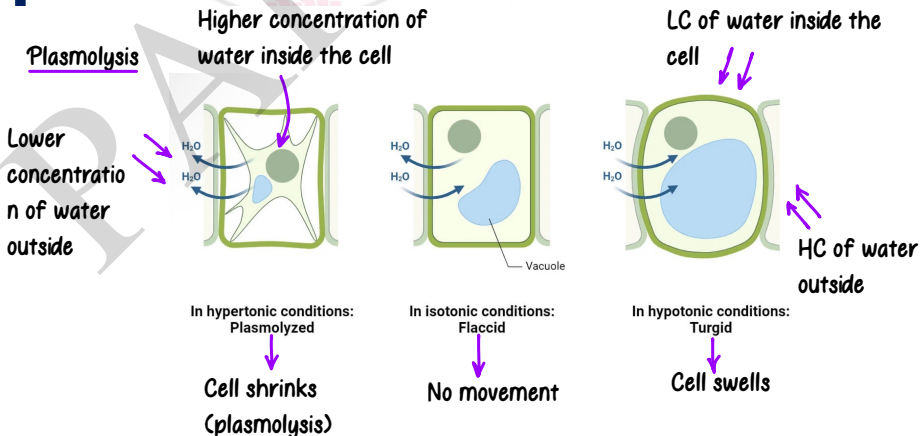
14. Why do pickles last longer?

अचार अधिक समय तक क्यों टिकता है?

1. The water content of the pickle protect the pickle from spoilage.
2. Bacterial and fungal cells get plasmolysed in high salt concentration of pickle.
3. Pickle is prepared in a vacuum so that no harmful bacteria can grow on it.
4. Only beneficial bacteria can grow in the pickle.

Vinegar is used as a preservative in pickle

1. अचार में पानी की मात्रा अचार को खराब होने से बचाती है।
2. अचार की उच्च नमक सांद्रता में बैक्टीरिया और फंगल कोशिकाएं प्लास्मोलाइज्ड हो जाती हैं।
3. अचार को वैक्यूम में तैयार किया जाता है ताकि उस पर कोई हानिकारक बैक्टीरिया न पनप सके।
4. अचार में सिर्फ फायदेमंद बैक्टीरिया ही पनप पाते हैं।



15.

Which Article of the Constitution clarifies that policies like 'reservation' is not a violation of right to equality?

संविधान का कौन सा अनुच्छेद स्पष्ट करता है कि 'आरक्षण' जैसी नीतियाँ समानता के अधिकार का उल्लंघन नहीं है?

1. Article 16 (4)
2. Article 15 (2)
3. Article 14 (1)
4. Article 21

1. अनुच्छेद 16(4)
2. अनुच्छेद 15(2)
3. अनुच्छेद 14(1)
4. अनुच्छेद 21

Promotion and Reservation in appointment (Not a violation of Right to Equality)

Right to Life and personal liberty

Right to equality

Art 15: Equality to status/Right against discrimination on grounds of race/caste/sex/religion/place of birth only

- 1 State shall not discriminate against any citizen on grounds only of religion, race, caste, sex, place of birth
- 2 No citizen on the above grounds be restricted with regards to
 - Access to shops, public restaurants, hotels and places of public entertainment or
 - The use of well, tanks, bathing ghats, roads, public places
- 3 Nothing shall prevent the State from making special provisions for women and children
- 4 Nothing in clause (2) shall prevent the State from making special provisions for advancement of Socially and educationally backward classes or Scheduled Caste or Scheduled Tribes

16.

Which of the following is NOT a non-contact force?

निम्नलिखित में से कौन-सा असंपर्क बल नहीं है?

1. Gravitational
2. Electrostatic
3. Friction
4. Magnetic

According to Coulomb's law

$$F \propto \frac{q_1 q_2}{r^2} \quad \rightarrow \quad F = K \frac{q_1 q_2}{r}$$

$$F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2}$$

- q = charge
- S.I unit of charge: Coulomb

$$F \propto \frac{M_1 M_2}{r^2}$$

$$F = G \frac{M_1 M_2}{r^2}$$

Gravitational Constant

- G = Gravitational constant
- Value: $6.67 \times 10^{-11} \frac{\text{Nm}^2}{\text{Kg}^2}$
- Discovered by: Henry Cavendish (1798)

S.I unit

$$F = G \frac{M_1 M_2}{r^2}$$

$$N = G \frac{\text{Kg}^2}{\text{m}^2} \rightarrow G = \frac{\text{Nm}^2}{\text{Kg}^2}$$

17. Who was the teacher of the famous musician Tansen?

प्रसिद्ध संगीतकार तानसेन के गुरु कौन थे?

- | | |
|------------------|------------------|
| 1. Ravidas | 1. रविदास |
| 2. Kalidas | 2. कालिदास |
| 3. Surdas | 3. सुरदास |
| 4. Swami Haridas | 4. स्वामी हरिदास |

Composed Dhrupads

18. Which from the following is a phylum of animals found in fresh water ponds, lakes and swamps provides setae or parapodia for locomotion?

निम्नलिखित में से कौन सा ताजे पानी के तालाबों, झीलों और दलदलों में पाए जाने वाले जानवरों का एक समूह है जो गति के लिए सेटे या पैरापोडिया प्रदान करता है?

- | | |
|--------------------|-----------------------|
| 1. Porifera | → Sponges |
| 2. Platyhelminthes | → Flatworms/tapeworms |
| 3. Ctenophora | |
| 4. Annelida | |

Characteristics of Annelida

- Bilaterally symmetrical
- Triploblastic
- Cylindrical/dorsoventrally flattened
- Brown colour skin is present
- True coelomate animal
- True organ packaged in coelom
- Organ level organisation
- Body segmetation is present
- Reproduction: Sexually



Phylum Annelida

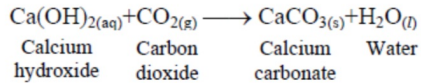
19. Which of the following has the highest boiling point?

निम्नलिखित में से किसका क्वथनांक उच्चतम है?

- | | |
|------------------------|----------------------------|
| 1. Alkanes | 1. अल्केन्स |
| 2. Alkenes | 2. अल्केन्स |
| 3. Free carbon dioxide | 3. मुक्त कार्बन डाइऑक्साइड |
| 4. Alkynes | 4. एल्काइन्स |

0.036% in atmosphere

• Solid CO₂: Dry ice → Also turns the lime water milky



20.

Which trend is found about the distance between the galaxies?

आकाशगंगाओं के बीच की दूरी के बारे में कौन सी प्रवृत्ति पाई जाती है?

1. Unpredictable
2. Decreasing
3. Constant
- ✓ 4. Increasing

1. अप्रत्याशित
2. घट रहा है
3. लगातार
4. बढ़ना

Distance increases however
the average density
between the galaxies
remain constant

→ Steady State Theory by Fred Hoyle

- Kavadi attam is a dance performed by devotees during the ceremonial worship of Murugan, the Hindu God of war