GS. Special

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Course Introduction Physics

1. SSC → SSC/CPO/CHSL/Steno
2. State SSC → Bihar SSC/Haryana SSC etc.
3. State Police → DP/Haryana Police, Bihar, UP Police
4. Tech Exam → SSC AE/JE
   - Center
   - State
5. Railway Exam } NTPC / ALP/ASM
6. Other Central Exam → IB, etc.

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Course Introduction Physics

7. UPSC
   - EPFO
   - NDA (Full)
   - CDS (Full)
   - Civil service (Course + Current)

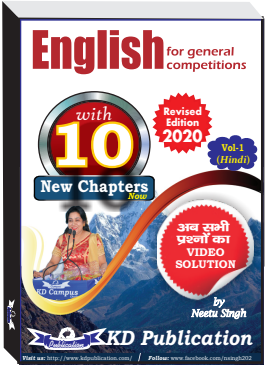
Less weitage

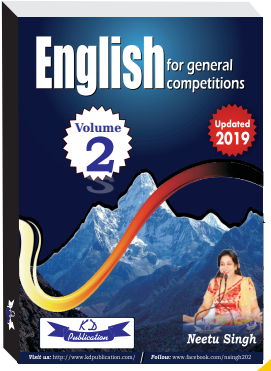
8. Air force X (50%)
   Navy SSR (50%) AA
   Air force Y (Full)

   } Separate Batch

9. State PCS → Haryana, Bihar, UP etc.
10. Teacher's Exam (TET, State)

For all Competitive Exams





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SYLLABUS

1. Introduction → Unit(इकाई) &Dimension(विमा)
2. Motion (गति) →
3. Friction(घर्षण) →
4. Newtons laws of Motion (न्यूटन के गति के नियम)
5. Work and Energy (कार्य एवं ऊर्जा) →
6. Gravitation(गुरूत्वाकर्षण) →
7. Light (प्रकाश) } 5 Parts (Lens + Mirror)

SYLLABUS

8. Electricity (विघुत)
9. Magnet (चुम्बक)
10. Nuclear Energy (नाभिकीय ऊर्जा)
11. Wave (तरंग) + Sound (ध्वनि)
12. Heat (ऊष्मा)
13. Fluid (तरल)

ENGLISH

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BY NEETU SINGH

Fee **3499/-** only

10th June

5pm – 7pm

Mon, Wed, Fri.

Highlights

- All notes in PDF form with all previous years questions chapter-wise. No need to write anything
- 60+ Papers of SSC (Tier i & Tier II) & PO (In VOD form)
- 5000+ Vocabularies, Idioms etc (all solved in PDF)
- 1 Year Validity

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Chapter-1

Physics (भौतिकी)

Nature (प्रकृति)

Matter (वस्तु)

Relation (संबंध)

Engery (ऊर्जा)

Physics – Study → Tool /Instruments

Physics Quantity → Magnitude × Unit
(भौतिक राशि) (परिमाण) × (इकाई)

Distance (दूरी) → 20KM, 20M, 20 Ft

Speed (चाल) → 20Km/h, 20m/s, 20 Min/Sec

Charge (आवेश) → 20 coulomb, /10 esu

Mass (द्रव्यमान) → 20kg, 20gm, 2paw etc.

Force (बल) → 10 Newton, 50 dyne

Energy (ऊर्जा) → 20Jule, 20ev, 50 erg.

Unit (इकाई)

	Mks	CGS	FPS	IPS
Length (लम्बाई)	Metre	CM	Foot	Inch
Mass (द्रव्यमान)	Kg	GM	Pound	Pound
Time (समय)	Sec.	Sec.	Sec.	Sec.

MKS → S.I Unit (1960)

11th Gen conference on weight and Measure (CGPM)

S.I (French)

International system of Unit

For all Competitive Exams

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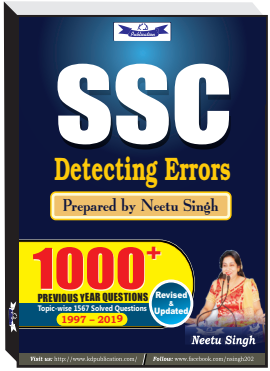

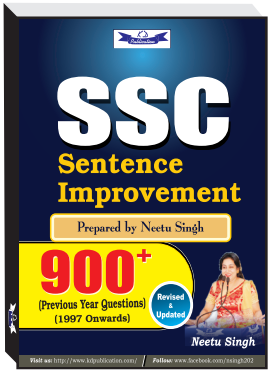

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Conversions

1. 1 Newton = 10^5 dyne
   1 Dyne = 10^{-5} Newton

2. 1 Jule = 10^7 Erg.
   1 Erg. = 10^{-7} Jule

Conversions

Note/नोट

1. **Energy (ऊर्जा)** } S.I unit – Jule
   CGS unit – Erg.
2. **Force (बल)** } s.i unit – Newton
   CGS unit – Dyne
3. **Charge (आवेश)** } S.I – Coulomb (कूलम्ब)
   CGS – Electro Static unit ESU

1 Coulomb = 2.99×10^9 ESU

S.I Prefixes

10^{3} = Killo (K)	10^{-3} = Milli (M)
10^{6} = Mega (M)	10^{-6} = Micro (μ)
10^{9} = Giga (G)	10^{-9} = nano (n)
10^{12} = Tera (T)	10^{-12} = Pico (p)
10^{15} = Peta (P)	10^{-15} = femto (f)
10^{18} = Exa (E)	10^{-18} = atto (a)

For all Competitive Exams

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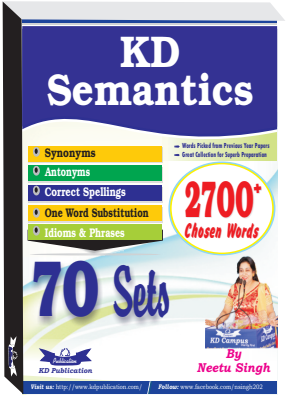

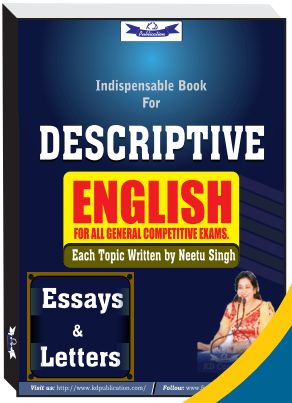

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Extra

Only – Length (ल ब ाई)/ Distance म ी (दू ी) ा इ

1. Angstrom (A°) → 10^{-10} meter
2. Fermi → 10^{-15} meter
3. Micron → 10^{-6} meter

Extra

4. **Light– Year (प्रकाश वर्ष)**

Distance (दूरी)

↓

Travelled by light (प्रकाश) in One year (एक वर्ष)

1 Light Year = 9.46×10^{15} meters

Extra

5. Astronomical unit (खगोलीय इकाई)

Distance (दूरी)

↓

Between Sun and Earth

$$1\ AU = 1.49 \times 10^{11}\ meter$$

Extra

6. Parsec (पारसेक)

↓

Biggest unit of length (लम्बाई)

1 Parsec = 3.08×10^{16} meter

Questions

Q1. 1 Angstrom = ... metre.

(A) 10^{-8} **(B)** 10^{-10}

(C) 10^{-12} **(D)** 10^{+10}

Questions

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Q2. 1 Micro metre = ... mega metre.

(A) 10^{-6} **(B)** 10^{+12}

(C) 10^{-12} **(D)** 10^{+18}

Questions

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Q3. Longest unit of length (लम्बाई)

(A) light year **(B) Astronomical unit**

(C) parsec **(D) Giga parsec**

Type (प्रकार)

⬇

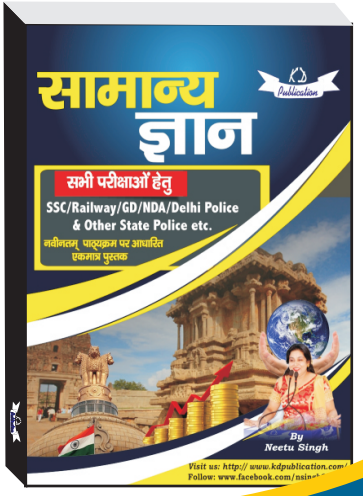
Physical quantity (भौतिकी राशि)

1. Fundamental Quantity (मूल राशि)
   Total = 7

2. Derived quantity (व्युत्पन्न राशि)
   Total = infinity

3. Suplimentry (पूरक)
   Total = 2

For all Competitive Exams



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Fundamental Quantity/(मूल राशि)

Name	S.I Unit	Dimension(विमा)
1. Mass (द्रव्यमान)	Kg	[M]
2. Length (लम्बाई)	Metre	[L]
3. Time (समय)	Second	[T]
4. Electric current (विद्युत धारा)	Ampere (एम्पियर)	[A]

Fundamental Quantity / (मूल राशि)

Name	S.I Unit	Dimension (विमा)
5. Temperature (तापमान)	Kelvin (केलविन)	[K]
6. Amount of Substance (पदार्थ की मात्रा)	Mol (मोल)	[Mol]
7. Intensity of light (ज्योति तीव्रता)	Candela (कैंडेला)	[Cd]

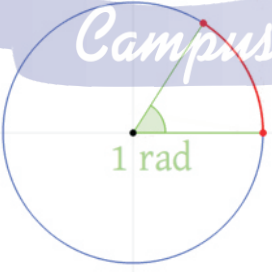
2. Derived Quantity (आधार राशि)

(a) $\frac{\text{Distance (दूरी)}}{\text{Time (समय)}}$ = Speed (चाल) $[LT^{-1}]$

(b) Electric current (विद्युत धारा) × Time (समय)
= Charge (आवेश) [AT]

3. Supplementary unit (पूरक इकाई)

(a) Plane Angle (पूरक कोण) **S.I unit radian (रेडियन)** **Symbol rad.**



Fundamental Quantity/ (मूल राशि)

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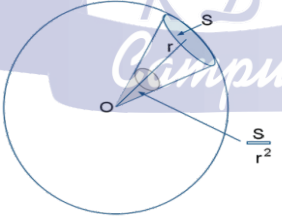
(b) Solid Angle (ठोस कोण) **S.I unit Steradian (स्टेरेडियन)** **Symbol Sr.**

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