

10th Physics Scheme & Guess

GUESS PAPER 2020

CLASS: TEN

SUBJECT: PHYSICS

Pairing Scheme for the Year 2020 (All Boards of Punjab)

Unit	1	2	3	4	5	6	7	8	9
MCQ	1	1	2	1	2	1	1	2	1
Short Q/A	2	3	4	2	3	3	2	3	3
	Q # 2			Q # 3			Q # 4		
LQ	Q#5(a):T	×	Q#5(b):N	Q#6:T/N	Q#6:T/N	×	×	Q#7:T/N	Q#7:T/N

Most Important Short Questions

Unit 10

- Elastic restoring force
- Simple pendulum
- Difference b/w vibration & amplitude
- SHM
- Characteristics of SHM
- Frequency & its unit
- Transverse waves
- Refraction of waves

Unit 11

- Characteristics of sound
- Loudness of sound & factors depending upon
- Difference b/w frequency & pitch of sound
- Quality of sound
- Audible frequency range
- Ultra sound & its uses
- SONAR
- Intensity of sound & its unit
- Reflection of sound
- Noise & its sources
- Difference b/w musical & noise

Unit 12

- Refraction of light
- Spherical mirrors & types
- Concave mirrors & its characteristics
- Radius of curvature
- Refractive index

- Laws of refraction of light

- Snell's law

- Total internal reflection

- Critical angle

- Optical center

- Focal length

- Power of lens & its formula

- Magnifying power

- Endo scope & its types

- Resolving power

- Defects of vision/ Near & far sightedness

Unit 13

- Electrostatic induction

- Electroscope & its uses

- How can we identify an insulator & conductor by using electroscope

- Coulomb's law

- Difference b/w electric field & electric field intensity

- Electric filed lines

- Electric potential energy & its unit

- Difference b/w capacitor & dielectric

- Farad

- Unit of capacitance

- Capacitance and its unit & its definition

- Difference b/w fixed & variable capacitor

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Unit 14

1. Electric current, its formula & unit
2. Conventional current
3. Difference b/w ammeter & galvanic meter
4. Resistance & its mathematical form
5. Ohm
6. Potential difference, its SI unit & definition
7. Electro motive force & mathematical formula
8. Difference b/w conductors & insulators
9. Ohm's Law
10. Resistance & its reason and SI unit
11. Ohmic & Non Ohmic conductors
12. Joule's law
13. Electric power, its formula & unit
14. Electric power & kilowatt hour
15. Circuit breaker & its uses

Unit 15

1. Right hand rule
2. Electro magnet & its poles
3. D.C. motor
4. How direction of magnetic lines of force can be found?
5. Left hand principle of Fleming
6. Principle of DC motor
7. Electro magnet induction
8. Lenz's law
9. Mutual induction
10. Transformer & its principle
11. Difference b/w step up & step down transformer
12. Fleming's left hand rule

Unit 16

1. Thermionic emission & factors to increase it
2. Electronics
3. Difference b/w ADC & DAC
4. Electron gun & its working
5. Cathode ray oscilloscope & its examples

6. Components of CRO
7. Difference b/w analogue & digital electronics
8. AND operation , its symbol & truth table
9. AND gate, its symbol & truth table
10. OR operation, its symbol & truth table
11. NOR gate, its symbol & truth table
12. NAND gate, its symbol & truth table

Unit 17

1. Difference b/w data & information
2. Difference b/w IT & telecommunication technology
3. ICT
4. Hardware & software
5. Fax machine & its uses
6. Cell phone
7. Computer
8. Why CPU is called brain of computer
9. Services of internet
10. Difference b/w primary & secondary memory
11. Word processing
12. Data management
13. Internet & its services
14. Photo phone
15. email

Unit 18

1. Difference b/w atomic number & mass number
2. Isotopes
3. Difference b/w natural & artificial radio activity
4. Nuclear transmutation
5. Penetrating
6. Half life
7. Characteristics of beta & gamma radiation
8. Nuclear fusion
9. Carbon dating

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Most Important Long Questions

1. (a). Prove that motion of a mass attached to a spring is SHM. Unit 10
(b). Explain that the motion of a simple pendulum is SHM. Unit 10
2. (a). Define wave. Discuss its types with example of each. Unit 10
(b). Define echo. How can we find least distance of hurdle to hear echo. Unit 11
3. (a). Define ultrasound. Write its uses. Unit 11
(b). Define reflection of light. Explain the reflection of light with diagram. (Also explain incident ray, reflected ray, angle of incidence, angle of reflection) Unit 12
4. (a). Define total internal reflection. Explain with diagram. Unit 12
(b). What is the use of compound microscope? Explain its structure & features. Find magnification of compound microscope with ray diagram. Unit 12
5. (a). Define & explain refraction of light with an activity. Unit 12
(b). What is an optical fiber? How does it work? Give its advantages. Unit 12
6. (a). Explain Coulomb's law in detail. Unit 13
(b). Explain parallel combination & series combination of capacitors. Also discuss their characteristics. Unit 13
7. (a). Define electric potential. Give its SI unit. Unit 13
(b). Write four uses of capacitors. Unit 13
8. (a). Explain Ohm's law. Discuss its mathematical formula & limitations. Unit 14
(b). Explain series & parallel circuit of resistors. Also discuss their properties. Unit 14
9. (a). Define current. What is its SI unit? Unit 14
(b). What is potential difference? Give its unit. Unit 14
10. (a). Define electromotive force. Unit 14
(b). State Ohm's law & its formula. Unit 14
11. (a). Electric power & derive its equation. Unit 14
(b). What is electric motor? Explain its working principle. Unit 15
12. (a). Explain mutual induction in detail. Unit 15
(b). What is transformer? Write its principle & working. Also discuss its types. Unit 15
13. (a). Fleming's Left hand rule. Unit 15
(b). Write a note on DC Motor Unit 15
14. (a). What is cathode oscilloscope? Explain its components. Unit 16
(b). Differentiate b/w analog & digital electronics. Write at least 5 analogue & digital electronics each which are used in daily life. Unit 16
15. (a). Explain OR operation with circuit diagram. Unit 16

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- (b). What is meant by CBIS? Explain the function of each part. **Unit 17**
16. (a). Explain the transmission of radio waves through space. **Unit 17**
 (b). Differentiate b/w computer hardware & software. Write names of different hardware & software. **Unit 17**
17. (a). Explain word processing. **Unit 17**
 (b). Differentiate b/w background & cosmic radiations. **Unit 18**
18. (a). Define half life. Explain with example of Radium-226. Also draw diagram of activity of radium. **Unit 18**
 (b). Define nuclear fission & nuclear fusion. Explain with examples. **Unit 18**
 (c). Explain hazards of nuclear radiation. Also discuss their safety measure. **Unit 18**

Most Important Examples

- | | | | | |
|--------|--------|--------|--------|--------|
| • 10.1 | • 12.2 | • 13.1 | • 14.4 | • 18.2 |
| • 11.2 | • 12.3 | • 13.3 | • 14.5 | |
| • 11.3 | • 12.4 | • 13.4 | • 14.7 | |
| • 12.1 | • 12.6 | • 14.1 | • 18.1 | |

Most Important Numericals

- | | | | | |
|--------|---------|---------|---------|--------|
| • 10.1 | • 11.9 | • 13.6 | • 13.14 | • 18.3 |
| • 10.4 | • 12.1 | • 13.7 | • 14.1 | • 18.5 |
| • 11.1 | • 12.4 | • 13.8 | • 14.4 | • 18.9 |
| • 11.2 | • 12.9 | • 13.9 | • 15.1 | |
| • 11.4 | • 12.10 | • 13.10 | • 15.5 | |
| • 11.6 | • 12.12 | • 13.12 | • 18.2 | |

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