1. Which of the following laws describes the relationship between the period and semi-major axis of an orbiting body?

a) Newton’s First Law
b) Kepler’s First Law
c) Kepler’s Second Law
d) Kepler’s Third Law

Answer: d) Kepler’s Third Law

Explanation: Kepler’s Third Law states that the square of the orbital period of a planet is directly proportional to the cube of the semi-major axis of its orbit.

2. What term describes the highest point in an orbit around the Earth?

a) Apogee
b) Perigee
c) Zenith
d) Nadir

Answer: a) Apogee

Explanation: Apogee is the point in an orbit that is farthest from the Earth.

3. Inclined orbits are characterized by:

a) Remaining stationary relative to the Earth’s surface
b) Aligning perfectly with the equator

c) Having an angle relative to the Earth’s equatorial plane
d) Being perfectly circular

Answer: c) Having an angle relative to the Earth’s equatorial plane

Explanation: Inclined orbits have an inclination angle relative to the Earth’s equatorial plane, causing them to orbit at an angle rather than directly over the equator.

4. Which type of orbit ensures that a satellite passes over the same spot on Earth at the same local solar time on each orbit?

a) Geostationary orbit
b) Low Earth Orbit (LEO)
c) Medium Earth Orbit (MEO)
d) Polar orbit

Answer: a) Geostationary orbit

Explanation: Geostationary orbits are positioned directly above the Earth’s equator and have a period equal to the Earth’s rotation period, allowing them to remain stationary relative to a fixed point on the Earth’s surface.

5. Which of the following elements of an orbit describes its shape?

a) Inclination
b) Eccentricity
c) Longitude of ascending node
d) Argument of perigee

Answer: b) Eccentricity

Explanation: Eccentricity describes how much an orbit deviates from a perfect circle. An eccentricity of 0 indicates a circular orbit, while higher values indicate more elliptical orbits.

6. What is the term for the point in an orbit closest to the Earth?

a) Apogee
b) Perigee
c) Zenith
d) Nadir

Answer: b) Perigee

Explanation: Perigee is the point in an orbit that is closest to the Earth.

7. Which orbit is characterized by an inclination of 90 degrees relative to the Earth’s equator?

a) Geostationary orbit
b) Sun-synchronous orbit
c) Polar orbit
d) Molniya orbit

Answer: c) Polar orbit

Explanation: Polar orbits have an inclination angle of 90 degrees, causing them to pass over the Earth’s poles on each orbit.

8. What term describes the point in an orbit where the satellite crosses the equatorial plane from south to north?

a) Ascending node
b) Descending node
c) Perigee
d) Apogee

Answer: a) Ascending node

Explanation: The ascending node is the point in an orbit where the satellite crosses the equatorial plane from south to north.

9. What is the primary factor causing orbit perturbations?

a) Gravitational pull of other celestial bodies
b) Solar wind
c) Magnetic field of the Earth
d) Atmospheric drag

Answer: a) Gravitational pull of other celestial bodies

Explanation: Gravitational pull from other celestial bodies, such as the Moon and the Sun, can cause perturbations in the orbit of a satellite.

10. Which orbit type is often used for communication satellites due to its fixed position relative to the Earth’s surface?

a) Low Earth Orbit (LEO)
b) Medium Earth Orbit (MEO)
c) Geostationary Orbit
d) Molniya Orbit

Answer: c) Geostationary Orbit

Explanation: Geostationary orbits allow satellites to remain stationary relative to a fixed point on the Earth’s surface, making them ideal for communication satellites.

Related Posts:

1. Satellite Communication & Polarization MCQs
2. Satellite and Earth Segment MCQs
3. Satellite Communication MCQs
4. Satellite Services MCQs
5. Web Development Essentials MCQs
6. HTML MCQs
7. Style sheets MCQs
8. XML MCQs
9. PHP and MySQL MCQs
10. Basics of programming MCQs
11. Decision control structure MCQs
12. Array MCQS
13. C Programming Essentials Structures, Preprocessor, and Unions MCQs
14. Basic concepts of OOP MCQS
15. Unix/Linux MCQs
16. The Shell Basic Commands, Shell Programming MCQs

17. File System MCQs
18. Process Control MCQS
19. System Security MCQs.
20. Dynamic Host Configuration Protocol MCQs
21. Introduction to Energy Science MCQs
22. Ecosystems mcqs
23. Biodiversity and its conservation MCQs
24. Environmental Pollution mcqs
25. Social Issues and the Environment mcqs
26. Signals and Systems MCQs
27. Linear Time- Invariant Systems mcqs
28. z-Transform mcqs
29. Fourier analysis of discrete time signals mcqs
30. State-Space Analysis, Sampling Theorem, and Signal Reconstruction mcqs
31. Frequency domain representation of signal mcqs
32. Modulation Techniques mcqs
33. FM Modulation & Transmission MCQs
34. Understanding AM and FM Transmission Noise and Receiver Characteristics
35. Control System MCQs: Basics, Feedback, and Analysis
36. Control System Analysis MCQs
37. Frequency Domain Analysis MCQs
38. System Design and Compensation Techniques MCQs
39. State Space & Control Systems MCQs
40. Feedback Amplifiers and Oscillators MCQs
41. Introduction to ICs and Op-Amps MCQs
42. Op-Amp Characteristics MCQs
43. OP-AMP applications MCQs

44. Electronic Circuits with 555 Timer MCQs
45. Voltage Regulator MCQs
46. Discrete-Time Signals and Systems MCqs
47. The z-Transformmcqs
48. Frequency Analysis of Discrete Time Signals mcqs
49. Efficient Computation of the DFT mcqs
50. Digital filters Design Techniques Mcqs
51. Radiation mcqs
52. Antenna Fundamentals mcqs
53. Types of antennas mcqs
54. Aperture and slot mcqs
55. Propagation of radio waves mcqs
56. Data Communication mcqs
57. OSI model mcqs
58. ERROR CONTROL AND DATA LINK PROTOCOLS mcqs
59. NETWORKS mcqs
60. NETWORKING DEVICES AND TCP / IP PROTOCOL SUITE mcqs
61. CMOS VLSI Circuit Design MCQs
62. Specification of sequential systems mcqs
63. 8051 Interfacing & Serial Communication MCQs
64. MCU Overview 8096 and PIC mcqs
65. Introduction to Embedded Systems mcqs
66. Embedded System Architecture mcqs
67. Input Output and Peripheral Devices mcqs
68. PHYSIOLOGY AND TRANSDUCERS mcqs
69. ELECTRO – PHYSIOLOGICAL MEASUREMENTS mcqs
70. NON-ELECTRICAL PARAMETER MEASUREMENTS mcqs

71. MEDICAL IMAGING MCQS
72. ASSISTING AND THERAPEUTIC EQUIPMENTS MCQS
73. Power Semiconductor Switches MCQS
74. Rectifiers and Thyristors MCQs
75. Inverters & Cycloconverters Inverters MCQs
76. AC Voltage Controllers MCQs
77. DC – DC Converters MCQS
78. Practical Consideration and Technology in VLSI Design MCQs
79. Device Modeling MCQs
80. Circuit Simulation MCQs
81. Structured Digital Circuits and Systems MCQs
82. CMOS Processing Technology MCQs
83. Microwave Engineering MCQs
84. Microwave Semiconductor Devices MCQs
85. RF Network Analysis & Measurement MCQs
86. Microwave Components and Circuits MCQs
87. RF & Microwave Circuit Design MCQs
88. Information Theory MCQs
89. Coding theorem MCQs
90. Information Channels MCQs
91. Error Control Coding MCQs
92. BCH and Convolutional Codes MCQs
93. Nanoscale Semiconductor Physics MCQs
94. Introduction to lithography MCQs
95. Tunnel Junctions and Tunneling Phenomena MCQs
96. Nanoelectronics MCQs
97. Scaling of physical systems MCQs

98. Cellular Mobile Systems MCQs
99. Wireless Communication Essentials MCQs
100. Cochannel interference reduction MCQs
101. Types of Noncochannel interference MCQS
102. Cellular Network Management MCQs
103. Digital Cellular Systems MCQs
104. IoT Essentials MCQs
105. IoT Technologies MCQs
106. Design Principles for Web Connectivity MCQs
107. IoT Technologies MCQS
108. IOT Design methodology MCQs
109. Probability and Random Variable MCQs
110. Probability Distributions and Expectations MCQs
111. Multiple Random Variables MCQS
112. Stochastic Processes MCQs
113. Optical Fiber Basics MCQs
114. Signal degradation in Optical Fibre MCQs
115. Optical sources and detectors MCQs
116. Optical Communication MCQs
117. Optical networks and amplifiers MCQS
118. 5G Wireless Communications MCQ
119. 5G Wireless Propagation Channels MCQS
120. 5G Transmission and Design Techniques MCQS
121. D2D and M2M Communications MCQS
122. Millimeter-Wave Communications MCQs
123. Review of Cellular Networks MCQS
124. LTE systems MCQS

125. Wireless Sensor Networks MCQS
126. Wireless routing Protocols MCQS
127. Internet of things (IoT) and GPS systems MCQS
128. Digital Image Processing MCQs
129. Transforms and Their Properties MCQs
130. Image Enhancement Techniques MCQs
131. Image Restoration MCQs
132. Compression & Image Watermarking MCQs
133. Speech Processing Fundamentals MCQs
134. Speech Distortion Analysis MCQs
135. HMMs in Speech Modeling MCQs
136. Large Vocabulary Continuous Speech RecognitioN MCQS
137. Text-to-Speech Synthesis MCQS
138. Theory of Measurement MCQs
139. Cathode Ray Tubes, Oscilloscopes, and Bridge Circuits MCQs
140. Transducer MCQs
141. Signal and Function Generators, Displays MCQS
142. Digital and Analog Conversion MCQs
143. Number Systems MCQS
144. Combinational logic circuits MCQS
145. Sequential Logic Design MCQs
146. Registers and Counters MCQS
147. Logic Families and Semiconductor Memories MCQS
148. Semiconductor MCQs
149. Diode Circuits & Power Supply MCQs
150. Fundamentals of BJT MCQS
151. Small Signal analysis MCQs

152. Electronic Devices MCQs
153. Introduction to circuit theory MCQS
154. Network Graph theory MCQs
155. Network Theorems MCQS
156. Electrical Circuit Analysis and Laplace Transform MCQs
157. Two port parameters MCQS
158. Evolution of Microprocessors: From 8086 to Pentium MCQs
159. 8086 Microprocessor MCQs
160. Interfacing Chips in Microprocessor Systems MCQS
161. Peripheral Devices in Computer Systems MCQS
162. 8051 Microcontrollers & Embedded Systems MCQs
163. Sampling, Modulation, and Multiplexing MCQs
164. Digital Communication Techniques MCQs
165. Digital Modulation Techniques MCQs
166. Modulation Techniques and Signal Processing MCQs
167. Information Theory and Communication MCqs
168. Two-Port Networks and Matching Techniques MCQs
169. Passive LC Filters MCQs
170. Transmission Line Fundamentals MCQs
171. RF Transmission Lines and Matching Techniques: MCQs
172. Surveying &Levelling MCQS
173. Architectural Principles MCQs
174. Kinematics of Flow MCQs
175. Airport, Obstructions, Lightning & Traffic control MCQs
176. Detailed Estimates MCQs
177. Urban Planning MCQs
178. Data Models mCQs

179. Motivation MCQS
180. Earthquake-Resistant Building MCQs
181. Bridge Construction Essentials MCQs
182. Waste water Treatment Operations MCQs
183. Response to Arbitrary, Step, and Pulse Excitation MCQS
184. Basic Principles of Structural Design MCQs
185. Sewerage Systems MCQS
186. Prefabricated Construction MCQs
187. Evaluation and Strengthening of Existing Pavements MCQS
188. Non uniform flow in open channels MCQs
189. Concept of EIA MCQs
190. Queueing Models MCQS
191. Hydrological Measurement MCQs
192. Retaining Walls and Earth Pressure MCQs
193. Aseismic Structural Modelling MCQS
194. Concrete Structure MCQs
195. Surface and Subsurface Water Systems MCQS
196. Damped Free Vibrations: Viscous damping MCQs
197. SINGLE CONDITIONING MCQs
198. Gaseous Fuels MCQs
199. Quality Management MCQs
200. Higher Order and Isoparametric Elements MCQs