



Mahendra's

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General Science By MCQ Part 20





Practice Question

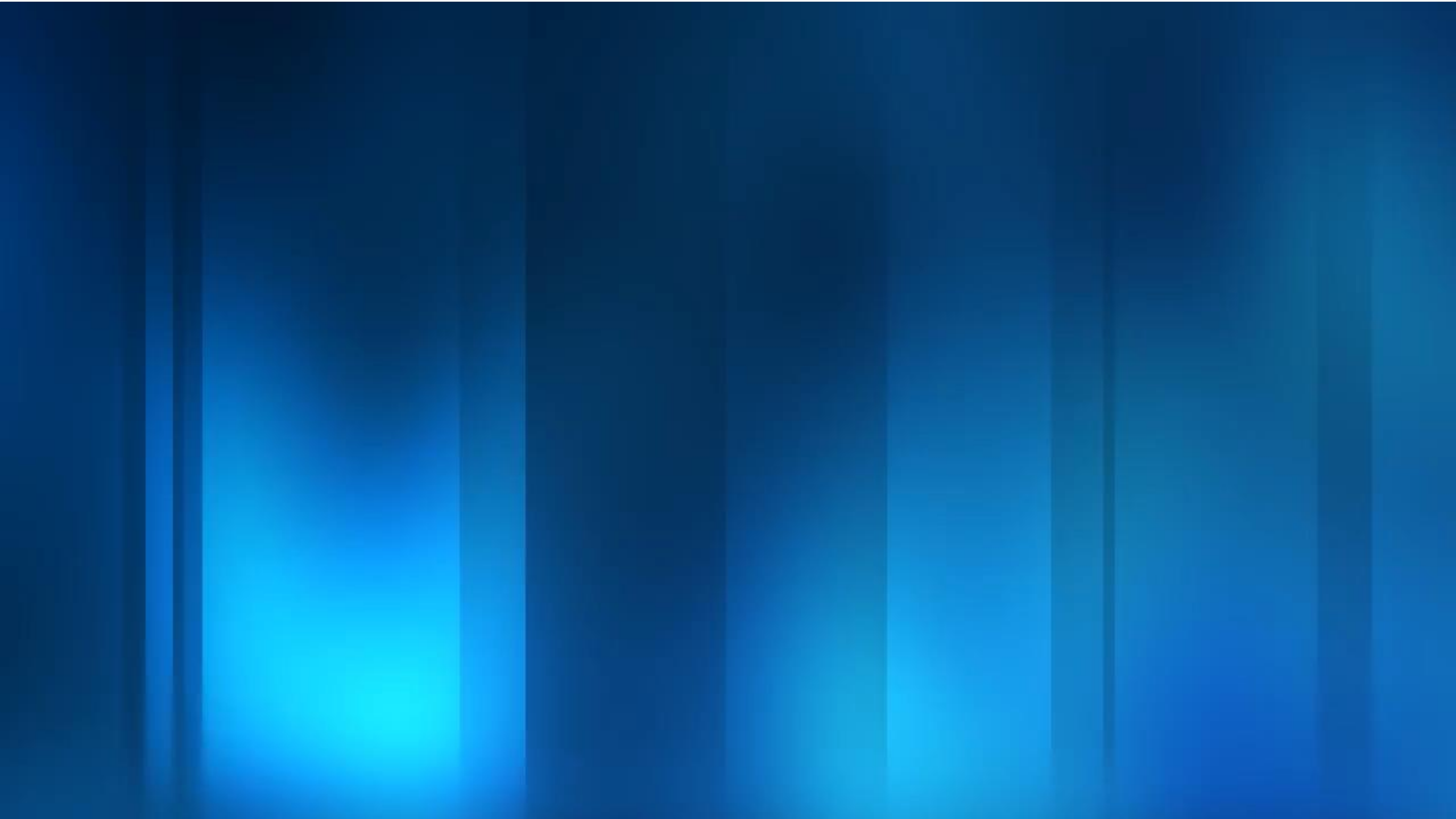
- Which of these is NOT an example of Periodic motion?/इनमें से कौन सा आवधिक गति का उदाहरण नहीं है?

- [A] Revolution of earth around the sun
- [B] Rotation of earth about its polar axis
- [C] Motion of minute's hand of a clock
- [D] None of the above





- Examples of Periodic motion: (i) Revolution of earth around the sun (period one year) (ii) Rotation of earth about its polar axis (period one day) (iii) Motion of hour's hand of a clock (period 12-hour) (iv) Motion of minute's hand of a clock (period 1-hour) (v) Motion of second's hand of a clock (period 1-minute) (vi) Motion of moon around the earth (period 27.3 days)





- If a moving body turns its speed to 1.5 times, its kinetic energy __:
- यदि एक गतिशील पिंड अपनी गति को 1.5 गुना कर देता है, तो इसकी गतिज ऊर्जा __:
- [A] will become 1.5 times
[B] will become 3 times
[C] will become 2.25 times
[D] will become 6 times

• Ans:C



- Consider the following statements:
 - Speed of sound increases with increase in density of the medium/माध्यम की घनत्व में वृद्धि के साथ ध्वनि की गति बढ़ जाती है
 - Speed of sound increases with increase in temperature of the medium/माध्यम के तापमान में वृद्धि के साथ ध्वनि की गति बढ़ जाती है
 - Which of the above statements is/are correct?
- [A] 1 Only
[B] 2 Only
[C] Both 1 & 2
[D] Neither 1 nor 2

Ans:B



• Who among the following discovered X-rays?

- [A] Marie Curie
- [B] J.J Thomson
- [C] W.C Roentgen
- [D] James Chadwick

• Ans:C



- When a body is in Uniform Circular Motion, there is no change in ____:/ जब कोई बॉडी यूनiform सर्कुलर मोशन में होती है, तो ____ में कोई बदलाव नहीं होता है:

1. Speed
2. Amplitude
3. Velocity
4. Acceleration

Choose the correct option from the codes given below:

- [A] Only 1
- [B] Only 1 & 2
- [C] Only 1, 2 & 3
- [D] 1, 2, 3 & 4

- **Ans:B**



• Which of the following is/are a vector quantity?/निम्नलिखित में से कौन-सी एक सदिश राशि है / हैं?

- Temperature
- Work
- Kinetic Energy
- Momentum
- Power

[A] 2 and 4 Only

[B] 4 Only

[C] 2, 3, 4 and 5 Only

[D] 1, 2, 3, 4 and 5

Ans:B



• What kind of energy is stored in the spring of a watch?/एक घड़ी के spring में किस तरह की ऊर्जा संग्रहीत होती है?

- [A] Kinetic
- [B] Potential
- [C] Heat
- [D] Chemical

• Ans:B



- Which of the following is true about universal gravitational constant in the case of two bodies each of unit mass having their centres placed at unit distance apart?/निम्नलिखित में से कौन सा दो इकाइयों के द्रव्यमान के मामले में सार्वभौमिक गुरुत्वाकर्षण स्थिरांक के बारे में सच है, जिनके केंद्रों को इकाई दूरी पर अलग रखा गया है?
- [A] It is equal to the force of attraction between them
- [B] It is equal to twice the force of attraction between them
- [C] It is equal to half the force of attraction between them
- [D] It is equal to ten times the force of attraction between them
- **ANS:A**



• Which of the following represents the dimensional formula of Universal Gravitational Constant?

- [A] $M^1 L^2 T^{-2}$
- [B] $M^{-1} L^1 T^{-2}$
- [C] $M^{-1} L^3 T^{-2}$
- [D] $M^1 L^3 T^{-2}$

• **ANS:C**



- Which of the following is true about the effect of altitude on the value of acceleration due to gravity?/गुरुत्वाकर्षण के कारण त्वरण के मूल्य पर ऊँचाई के प्रभाव के बारे में निम्नलिखित में से कौन सा सही है?
- [A] The acceleration due to gravity decreases with height
- [B] The acceleration due to gravity increases with height
- [C] The acceleration due to gravity is not dependent on height
- [D] None of the above

• **ANS:A**



- Which of the following statements is correct about the value of acceleration due to gravity (g) in a light and heavy falling body?/निम्नलिखित में से कौन सा कथन एक हल्के और भारी गिरने वाले शरीर में गुरुत्वाकर्षण (g) के कारण त्वरण के मूल्य के बारे में सही है?
- [A] the value of g will be greater in the light body
- [B] the value of g will be greater in the heavy body
- [C] the value of g will be equal in both the bodies
- [D] the value of g depends on the mass

• **ANS:C**



• The acceleration due to gravity on any planet does not depend on which of the following?/किसी भी ग्रह पर गुरुत्वाकर्षण के कारण होने वाला त्वरण निम्नलिखित में से किस पर निर्भर नहीं करता है?

- [A] Radius of the planet
- [B] Mass of the planet
- [C] Density of the planet
- [D] Mass of the object

• **ANS:D**



- What will happen to a ball if it is dropped from a spacecraft revolving around the earth at a height of 120 km?/120 किमी की ऊंचाई पर पृथ्वी के चारों ओर घूमने वाले अंतरिक्ष यान से गिराए जाने पर एक गेंद का क्या होगा?
- [A] It will go very far in the space
- [B] It will fall down to the earth gradually
- [C] It will move with the same speed tangentially to the spacecraft
- [D] It will continue to move with velocity v along the original orbit of spacecraft
- **ANS:D**



- The Kinetic energy of a satellite is maximum in which of the following conditions?/उपग्रह की गतिज ऊर्जा निम्नलिखित में से किस स्थिति में अधिकतम है?
- [A] when the satellite is at perigee
- [B] when the satellite is at apogee
- [C] it is equal at perigee and apogee
- [D] None of the above
- **ANS:A**



• On which of these factors, the buoyancy depends?/इन कारकों में से किस पर, उछाल निर्भर करता है?

- [A] Density of the fluid
- [B] Volume of the body
- [C] Both a and b
- [D] None of the above

• **ANS:C**



- What is the wavelength range of Radio waves?/रेडियो तरंगों की तरंग दैर्घ्य सीमा क्या है?
- [A] between 400 nm and 800 nm
- [B] between 1 nm and 10^{-3} nm
- [C] more than 0.1 m
- [D] None of the above
- **ANS:C**



- Which of the following sounds is produced by earthquakes before the main shock waves?/निम्नलिखित में से कौन सी आवाज़ भूकंप के मुख्य झटके वाली लहरों से पहले उत्पन्न होती है?
- [A] low-frequency infrasound
- [B] high-frequency ultrasound
- [C] sounds between 200 Hz and 400 Hz
- [D] None of the above
- **ANS:A**



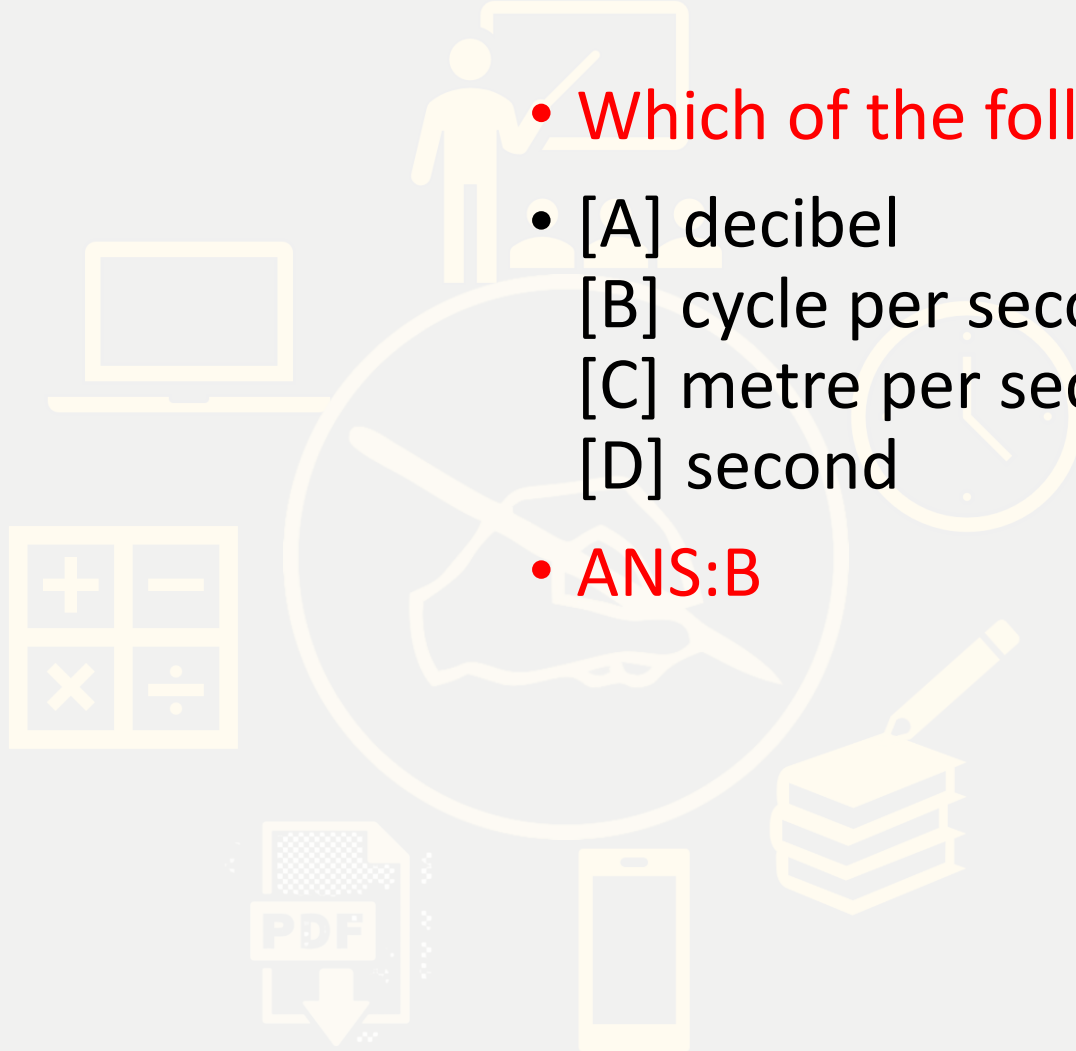
- What is supersonic speed?/सुपरसोनिक गति क्या है?
- [A] When the speed of any object exceeds the speed of sound
- [B] When the speed of any object exceeds the speed of light
- [C] When the speed of any object exceeds 10000 m/s
- [D] None of the above
- **ANS:A**



• Which of the following is another unit of frequency?

- [A] decibel
- [B] cycle per second
- [C] metre per second
- [D] second

• **ANS:B**





- Which of the following law states that if two systems are in thermal equilibrium with a third system separately, then they are in thermal equilibrium with each other?/निम्नलिखित में से कौन सा कानून बताता है कि यदि दो प्रणालियां अलग से एक तीसरी प्रणाली के साथ थर्मल संतुलन में हैं, तो वे एक दूसरे के साथ थर्मल संतुलन में हैं?
- [A] First law of Thermodynamics
- [B] Zeroth law of Thermodynamics
- [C] Second law of Thermodynamics
- [D] Third law of Thermodynamics
- **ANS:B**



- Where will be the image formed by a convex lens when the object is placed at the focus?/जब वस्तु को फोकस पर रखा जाता है तो उत्तल लेंस द्वारा बनाई गई छवि कहाँ होगी?
- [A] No image is formed
- [B] At focus
- [C] Between focus and optical centre
- [D] At infinity
- **ANS:D**



• What is the S.I. unit of power of a lens?

- [A] metre
- [B] watt
- [C] dioptre
- [D] second

• **ANS:C**



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ENGLISH MEDIUM

PDF



PRACTICE QUESTION

- What do we call the process in which no exchange of heat energy takes place between the gas and the surroundings?
- हम उस प्रक्रिया को क्या कहते हैं जिसमें गैस और परिवेश के बीच ऊष्मा ऊर्जा का कोई आदान-प्रदान नहीं होता है?

- [A] Adiabatic
- [B] Isothermal
- [C] Isochoric
- [D] Isobaric



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