



Name: _____

Date: _____

Exam Instructions

1. The timer has been set for the exam, and a countdown will display the remaining time. When the timer runs out, the exam will end automatically. No further action will be required after that.
2. You can flag any question that you want.
3. If you don't want to submit any of your provided answers, you can clear them.
4. If you choose to drop this exam, it will not be submitted, and no result will be generated.
5. Once you finish the exam, you cannot resume it.

Secure Exam Advice

This exam is specially secured. Which means you cannot leave your browser window once the exam starts.

The following actions are not supported during your exam.

- Minimizing the browser
- Resizing the browser
- Open a new tab
- Open a new program
- Taking a screenshot
- Pressing Ctrl + C
- Pressing Ctrl + V
- Pressing Print Screen
- Pressing F12

We are monitoring your activity during the exam, and any unusual behaviour is being tracked. Your admin has set the exam to terminate if a certain number of unusual activities are detected, which could be as low as one. To avoid your exam from being terminated, please refrain from any behaviour that may be considered unusual. All the best!

Question: 1 of 50

QID: 587

Marks: 4

Which of the following aquatic plants grows completely submerged in water?

Please mark (✓) for the correct answer.

- A. Water hyacinth B. Water lily
- C. Hydrilla D. Lotus

Question: 2 of 50

QID: 591

Marks: 4

The direction of current in a conducting wire is

Please mark (✓) for the correct answer.

- A. positive to negative terminal
- B. may vary
- C. none of these
- D. negative to positive terminal

Question: 3 of 50

QID: 618

Marks: 4

The epicentre of an earthquake is

Please mark (✓) for the correct answer.

- A. in the middle of earth
- B. none of these
- C. in the core of earth
- D. on the surface of earth

Question: 4 of 50

QID: 620

Marks: 4

If you hold a pen in your right hand and stand in front of the mirror, the pen will be in the left hand in the image. This phenomenon is called

Please mark (✓) for the correct answer.

- A. inversion
- B. diffraction
- C. lateral inversion
- D. reflection

Question: 5 of 50

QID: 605

Marks: 4

Which one of the following is a metal?

Please mark (✓) for the correct answer.

- A. Ca
- B. O
- C. Na
- D. N

Question: 6 of 50

QID: 585

Marks: 4

Which is a correct set of parts of a pistil?

Please mark (✓) for the correct answer.

- A. Ovary, style and stigma
- B. Ovary, style and filament
- C. Ovary, anther and filament
- D. Filament and anther

Which of the following is based on the study of the shadow cast by the sun?

Please mark (✓) for the correct answer.

- A. Atomic clock
- B. Sun dial
- C. Simple pendulum
- D. Quartz clock

In the list of animals given below, hen is the odd one out. 'human being, cow, dog, hen'

Please mark (✓) for the correct answer.

- A. it is viviparous
- B. it is oviparous
- C. The reason for this is
- D. it undergoes internal fertilisation
- E. it undergoes external fertilisation

Whenever the surfaces in contact tend to move or move with respect to each other, the force of friction comes into play

Please mark (✓) for the correct answer.

- A. only if one of the two objects is liquid.
- B. irrespective of whether the objects are solid, liquid or gaseous.
- C. only if one of the two objects is gaseous.
- D. only if the objects are solid.

The maximum value of static friction that comes into play when a body is just at the point of sliding over the surface of another body is called

Please mark (✓) for the correct answer.

- A. all of these
- B. limiting friction
- C. sliding friction
- D. rolling friction

Metals react with acids to produce respective salts with evolution of

Please mark (✓) for the correct answer.

- A. none of these
- B. oxygen gas
- C. CO₂ gas
- D. hydrogen gas

Question: 12 of 50

QID: 586

Marks: 4

Both clavicle and scapula constitutes the

Please mark (✓) for the correct answer.

- A. chest bones
- B. hand bone
- C. backbone
- D. shoulder bone

Question: 13 of 50

QID: 611

Marks: 4

Sets of reproductive terms are given below. Choose the set that has an incorrect combination.

Please mark (✓) for the correct answer.

- A. Sperm, oviduct, egg, uterus
- B. Menstruation, egg, oviduct, uterus
- C. Sperm, testis, sperm duct, penis
- D. Ovulation, egg, oviduct, uterus

Question: 14 of 50

QID: 604

Marks: 4

In displacement reactions

Please mark (✓) for the correct answer.

- A. both (a) and (b)
- B. none of these
- C. a less reactive metal displaces a more reactive metal.
- D. a more reactive metal displaces a less reactive metal.

Question: 15 of 50

QID: 581

Marks: 4

The ovary contains female sex cells inside

Please mark (✓) for the correct answer.

- A. style
- B. ovules
- C. stigma
- D. anther

Question: 16 of 50

QID: 606

Marks: 4

The gap between the orbit of Mars and Jupiter have

Please mark (✓) for the correct answer.

- A. meteorite
- B. meteor
- C. comets
- D. asteroids

Question: 17 of 50

QID: 619

Marks: 4

A major tsunami occurred on 26th December 2004 in which ocean?

Please mark (✓) for the correct answer.

- A. Pacific Ocean
- B. Indian Ocean
- C. South Atlantic Ocean
- D. North Atlantic Ocean

Question: 18 of 50

QID: 592

Marks: 4

Objects that do not give out or emit light of their own are called

Please mark (✓) for the correct answer.

- A. opaque
- B. non-luminous
- C. translucent
- D. luminous

Question: 19 of 50

QID: 609

Marks: 4

Cells which lack nuclear membrane are

Please mark (✓) for the correct answer.

- A. single cells
- B. eukaryotic cells
- C. prokaryotic cells
- D. multicells

Question: 20 of 50

QID: 584

Marks: 4

Composition of fats are

Please mark (✓) for the correct answer.

- A. carbon, sulphur and nitrogen
- B. carbon, hydrogen and oxygen
- C. carbon, sulphur and hydrogen
- D. oxygen, nitrogen and hydrogen

Question: 21 of 50

QID: 607

Marks: 4

Pole Star cannot be seen in which of the following countries?

Please mark (✓) for the correct answer.

- A. New Zealand
- B. UK
- C. India
- D. USA

Question: 22 of 50

QID: 614

Marks: 4

Two boys A and B are applying force on a block. If the block moves towards the boy A, which one of the following statements is correct?

Please mark (✓) for the correct answer.

- A. Magnitude of force applied by A is equal to that of B. B. Magnitude of force applied by A is smaller than that of B.
- C. Net force on the block is towards B. D. Magnitude of force applied by A is greater than that of B.

Question: 23 of 50

QID: 590

Marks: 4

Which of the following is the biggest unit?

Please mark (✓) for the correct answer.

- A. cm B. m
- C. mm D. km

Question: 24 of 50

QID: 597

Marks: 4

Swati walks to his school which is at a distance of 4 km from his home in 30 minutes. On reaching he finds that the school is closed and comes back in his friend's vehicle to home in 10 minutes. His average speed in km/h is

Please mark (✓) for the correct answer.

- A. 16 km/h B. 20 km/h
- C. 24 km/h D. 8 km/h

Question: 25 of 50

QID: 602

Marks: 4

Metalloids possess the properties of

Please mark (✓) for the correct answer.

- A. none of these B. both metals and non-metals
- C. metals D. non-metals

Question: 26 of 50

QID: 613

Marks: 4

The force exerted by a charged body on another charged or uncharged body is called

Please mark (✓) for the correct answer.

- A. gravitational force B. contact force
- C. non-contact force D. electrostatic force

Question: 27 of 50

QID: 610

Marks: 4

Which of the following cells is of irregular shape?

Please mark (✓) for the correct answer.

- A. WBC
- B. RBC
- C. Neuron
- D. Muscle cell

Question: 28 of 50

QID: 600

Marks: 4

Medicine that kills or stops the growth of harmful disease-causing microbes is known as

Please mark (✓) for the correct answer.

- A. antibody
- B. antigen
- C. vaccine
- D. antibiotic

Question: 29 of 50

QID: 599

Marks: 4

Spherical-shaped bacteria are called

Please mark (✓) for the correct answer.

- A. vibrio
- B. spirilla
- C. cocci
- D. bacilli

Question: 30 of 50

QID: 595

Marks: 4

The distance travelled by the vehicles is recorded by

Please mark (✓) for the correct answer.

- A. motometer
- B. monometer
- C. speedometer
- D. odometer

Question: 31 of 50

QID: 582

Marks: 4

Which carbohydrate is present in sugar cane?

Please mark (✓) for the correct answer.

- A. None of these
- B. Both (a) & (b)
- C. Complex carbohydrate
- D. Simple carbohydrate

Question: 32 of 50

QID: 617

Marks: 4

Waste from an electroplating factory must be disposed off

Please mark (✓) for the correct answer.

- A. according to the disposal guidelines of Waste Management Bodies
- B. in the nearby river
- C. in the nearby cornfield
- D. in the nearby pond

Question: 33 of 50

QID: 588

Marks: 4

In which year, SI system was recommended by general conference of weights and measures?

Please mark (✓) for the correct answer.

- A. 1970
- B. 1980
- C. 1950
- D. 1960

Question: 34 of 50

QID: 608

Marks: 4

The Halley's comet is seen after every

Please mark (✓) for the correct answer.

- A. 76 years
- B. 56 years
- C. 56 months
- D. 76 months

Question: 35 of 50

QID: 593

Marks: 4

Which of the following will make a closed circuit?

Please mark (✓) for the correct answer.

- A. Battery
- B. Eraser
- C. Metal Key
- D. Bulb

Question: 36 of 50

QID: 594

Marks: 4

Who was the discoverer of magnet?

Please mark (✓) for the correct answer.

- A. Aryabhata
- B. Einstein
- C. Magnes
- D. Newton

The microorganisms that cause diseases in human beings, plants and animals are called

Please mark (✓) for the correct answer.

- A. pathogens
- B. antibodies
- C. mosquitoes
- D. carriers

Which one of the following occurs when we straighten our arm?

Please mark (✓) for the correct answer.

- A. Triceps contracts but biceps relaxes
- B. Both biceps and triceps relax
- C. Biceps contracts but triceps relaxes
- D. Both biceps and triceps contract

Which of the following types of motion are possessed by a football rolling on the ground? (A) Rotational (B) Rectilinear (C) Periodic (D) Circular

Please mark (✓) for the correct answer.

- A. (A) and (B)
- B. (A), (B) and (D)
- C. (B) and (C)
- D. (A) and (C)

Which of the following measures the most accurate time?

Please mark (✓) for the correct answer.

- A. Water clock
- B. Quartz clock
- C. Sand clock
- D. Sundial

Which one of the following events is correctly matched with the time period in a normal menstrual cycle?

Please mark (✓) for the correct answer.

- A. Rise in progesterone level : 1-15 days
- B. Endometrium secretes nutrients for implantation: 11-18 days
- C. Endometrium regenerates: 5-10 days
- D. Release of egg: 5th day

Assertion: Sponges have body organization of "cellular level".

Reason: There is some physiological division of labour.

Please mark (✓) for the correct answer.

- A. If both Assertion and Reason are correct, but Reason is not the correct explanation of Assertion. {c}
- B. If both the Assertion and Reason are incorrect.
- C. If both Assertion and Reason are correct and Reason is the correct explanation of Assertion.
- D. If Assertion is correct but Reason is incorrect.

An iron sphere of mass 10 kg has the same diameter as an aluminium sphere of mass is 3.5 kg. Both spheres are dropped simultaneously from a tower. When they are 10 m above the ground, they have the same.

Please mark (✓) for the correct answer.

- A. acceleration
- B. potential energy
- C. momenta
- D. kinetic energy

A key of a mechanical piano struck gently and then struck again but much harder this time. In the second case

Please mark (✓) for the correct answer.

- A. sound will be louder and pitch will also be higher
- B. both loudness and pitch will remain unaffected
- C. sound will be louder but pitch will be lower
- D. sound will be louder but pitch will not be different

The least resistance obtained by using 2 Ω , 4 Ω , 1 Ω and 100 Ω is

Please mark (✓) for the correct answer.

- A. < 100 Ω
- B. > 2 Ω
- C. < 4 Ω
- D. < 1 Ω

Which of the following represents 12 u?

Please mark (✓) for the correct answer.

- A. Mass of 1 hydrogen atom
- B. 1/12th of mass of C-12 atom.
- C. Mass of O-16 atom
- D. Mass of C-12 atom

Three beakers labelled as A, B and C each containing 25 ml of water were taken. A small amount of NaOH, anhydrous CuSO₄ and NaCl were added to the beakers A, B and C respectively. It was observed that there was an increase in the temperature of the solution contained in beakers A and B, whereas in case of beaker C, the temperature of the solution falls. Which one of the following statement(s) is (are) correct? (i) In beakers A and B, exothermic process has occurred. (ii) In beakers A and B, endothermic process has occurred. (iii) In beaker C exothermic process has occurred. (iv) In beaker C endothermic process has occurred.

Please mark (✓) for the correct answer.

- A. (i) and (iv) B. (i) only
 C. (ii) only D. (iv), (ii) and (iii)

Assertion: The earliest organisms that appeared on the earth were non-green and presumably anaerobes.

Reason: The first autotrophic organisms were the chemoautotrophs that never released oxygen.

Please mark (✓) for the correct answer.

- A. If Assertion is correct but Reason is incorrect. B. If both Assertion and Reason are correct, but Reason is not the correct explanation of Assertion.
 C. If both the Assertion and Reason are incorrect. D. If both Assertion and Reason are correct and Reason is the correct explanation of Assertion.

Assertion (A): As the speed of the coil in the motor increases, there is a reduction in the current flowing through it. **Reason (R):** During rotation in an electric motor, some induced current is produced.

Please mark (✓) for the correct answer.

- A. Both (A) and (R) are correct, but (R) is not the correct explanation of (A) B. (A) is incorrect and (R) is correct
 C. (A) is correct and (R) is incorrect D. Both (A) and (R) are correct but (R) is the correct explanation of (A)

Two army persons A and B each of weight of 500 N climb up a rope through a height of 10 m. A takes 20 s while B takes 40 s to achieve this task. What is ratio of the powers of person A and B?

Please mark (✓) for the correct answer.

- A. 1 : 4 B. 14 : 1
 C. 2 : 1 D. 1 : 2

Answer Key

No	Question Type	QID	Correct Answer
Question - 1	Multiple Choice (Radiobutton)	587	C
Question - 2	Multiple Choice (Radiobutton)	591	A
Question - 3	Multiple Choice (Radiobutton)	618	D
Question - 4	Multiple Choice (Radiobutton)	620	C
Question - 5	Multiple Choice (Radiobutton)	605	A
Question - 6	Multiple Choice (Radiobutton)	585	A
Question - 7	Multiple Choice (Radiobutton)	596	B
Question - 8	Multiple Choice (Radiobutton)	612	B
Question - 9	Multiple Choice (Radiobutton)	615	B
Question - 10	Multiple Choice (Radiobutton)	616	B
Question - 11	Multiple Choice (Radiobutton)	603	D
Question - 12	Multiple Choice (Radiobutton)	586	D
Question - 13	Multiple Choice (Radiobutton)	611	A
Question - 14	Multiple Choice (Radiobutton)	604	D
Question - 15	Multiple Choice (Radiobutton)	581	B
Question - 16	Multiple Choice (Radiobutton)	606	D
Question - 17	Multiple Choice (Radiobutton)	619	B
Question - 18	Multiple Choice (Radiobutton)	592	B
Question - 19	Multiple Choice (Radiobutton)	609	C
Question - 20	Multiple Choice (Radiobutton)	584	B
Question - 21	Multiple Choice (Radiobutton)	607	A
Question - 22	Multiple Choice (Radiobutton)	614	B
Question - 23	Multiple Choice (Radiobutton)	590	D
Question - 24	Multiple Choice (Radiobutton)	597	A
Question - 25	Multiple Choice (Radiobutton)	602	B
Question - 26	Multiple Choice (Radiobutton)	613	D
Question - 27	Multiple Choice (Radiobutton)	610	A
Question - 28	Multiple Choice (Radiobutton)	600	D
Question - 29	Multiple Choice (Radiobutton)	599	C
Question - 30	Multiple Choice (Radiobutton)	595	D
Question - 31	Multiple Choice (Radiobutton)	582	D
Question - 32	Multiple Choice (Radiobutton)	617	A
Question - 33	Multiple Choice (Radiobutton)	588	D
Question - 34	Multiple Choice (Radiobutton)	608	A
Question - 35	Multiple Choice (Radiobutton)	593	C
Question - 36	Multiple Choice (Radiobutton)	594	C
Question - 37	Multiple Choice (Radiobutton)	601	A
Question - 38	Multiple Choice (Radiobutton)	583	A
Question - 39	Multiple Choice (Radiobutton)	589	B
Question - 40	Multiple Choice (Radiobutton)	598	B
Question - 41	Multiple Choice (Radiobutton)	559	C
Question - 42	Multiple Choice (Radiobutton)	550	A

No	Question Type	QID	Correct Answer
Question - 43	Multiple Choice (Radiobutton)	564	A
Question - 44	Multiple Choice (Radiobutton)	565	D
Question - 45	Multiple Choice (Radiobutton)	577	D
Question - 46	Multiple Choice (Radiobutton)	569	D
Question - 47	Multiple Choice (Radiobutton)	573	A
Question - 48	Multiple Choice (Radiobutton)	558	B
Question - 49	Multiple Choice (Radiobutton)	578	D
Question - 50	Multiple Choice (Radiobutton)	563	C

--- END OF ANSWER KEY ---

