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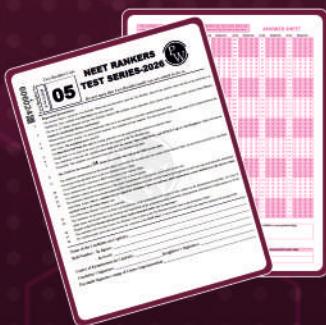
NEET

2026



RANKERS TEST SERIES

Attempted by **1 LAKH+** Students Last Year
Replicating Last Year NEET **Difficulty Level**



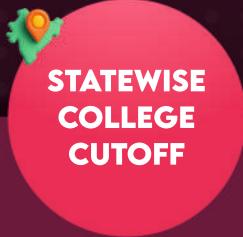
- 15 NEET-LIKE TEST BOOKLETS
- 15 OMR SHEETS
- RANK PREDICTOR SHEET
- 30 MOTIVATIONAL STICKERS



PAST
YEAR
ANALYSIS



COMPREHENSIVE
SOLUTIONS WITH
NCERT
REFERENCES



STATEWISE
COLLEGE
CUTOFF

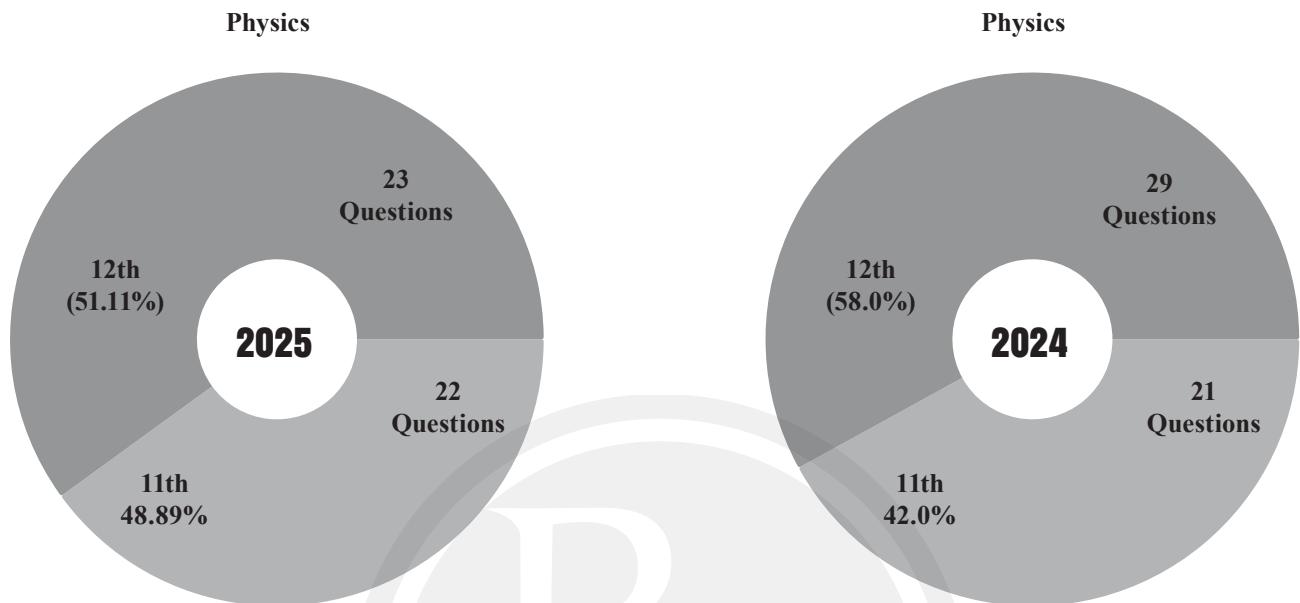


FREQUENTLY
ASKED
QUESTIONS

Meticulously Curated and Verified by Expert PW Faculties
for NEET-Level Accuracy and Authentic Exam Experience

NEET BLUEPRINT: ANALYZING PATTERNS FOR EXAM MASTERY

PHYSICS



Question Type Analysis (NEET 2025)

Subject	Single Choice	Statement II	Multi Statement	Assertion & Reason	Match the Column	Grand Total
Physics	44	0	1	0	0	45
Chemistry	33	4	1	1	6	45
Botany	26	5	6	4	6	47
Zoology	26	3	8	1	5	43
Total	129	12	16	6	17	180

Question Type Analysis (NEET 2024)

Subject	Single Choice	Statement II	Multi Statement	Assertion & Reason	Match the Column	Grand Total
Physics	44	1	2	1	2	50
Chemistry	37	5	1	0	7	50
Botany	24	5	8	0	13	50
Zoology	17	5	8	2	18	50
Total	122	16	19	3	40	50

FREQUENTLY ASKED QUESTIONS ABOUT NEET

Qs. What is the maximum number of attempts allowed for the NEET exam?

Ans. There is no limit on the number of attempts. Applicants aged 17 or older may take the NEET exam as many times as needed.

Qs. Is it possible to take the NEET exam if I took a one-year gap between Class 11 and Class 12?

Ans. Yes, you are eligible to take the NEET exam even if you have taken a one-year break between your Class 11 and Class 12. This change was made following a Delhi High Court decision.

Qs. Can a student take the NEET exam if they studied Biology as an optional subject in 10+2?

Ans. Studying Biology or Biotechnology as an additional subject in Class 12 is generally not allowed. However, this is subject to decisions made by the Medical Council of India (MCI) Special Leave Petitions/Appeals.

Qs. What documents do I need to bring to the NEET exam centre?

Ans. You need to bring your admit card, a passport-size photograph, a photo for the attendance sheet, valid ID proof, and any necessary certificates.

Qs. What should I do if there are incorrect details on my admit card?

Ans. If you notice any mistakes on your admit card, you can send an email to the conducting authority at neetug-nta@nic.in to request corrections.

Qs. What should I do if I've lost my application number and need to retrieve it?

Ans. To retrieve your application number, follow these steps:

1. Visit the official website.
2. Find the "Forgot Registration Number" option in the current events section.
3. Log in by providing your name, parents' names, date of birth, security pin, and category.
4. You will receive an email with your application number, which you can use to download your admit card.

Qs. Can I challenge the OMR grading of my NEET answers?

Ans. Yes, you can challenge the OMR grading and the provisional answer key. Challenging the OMR grading requires a non-refundable fee of ₹200 per question. Likewise, challenging the provisional answer key incurs a fee of ₹200 per answer challenged. If your challenge is accepted, the answer key will be revised. Keep an eye on the official website for updates, as you won't receive individual notifications of acceptance or rejection.

Qs. What is the importance of a percentile rank in the NEET exam?

Ans. A percentile rank indicates the percentage of candidates who scored less than or equal to a particular score. For example, if you belong to the general category with a minimum qualifying percentile of 50, it means you must score higher than at least 50% of the candidates.



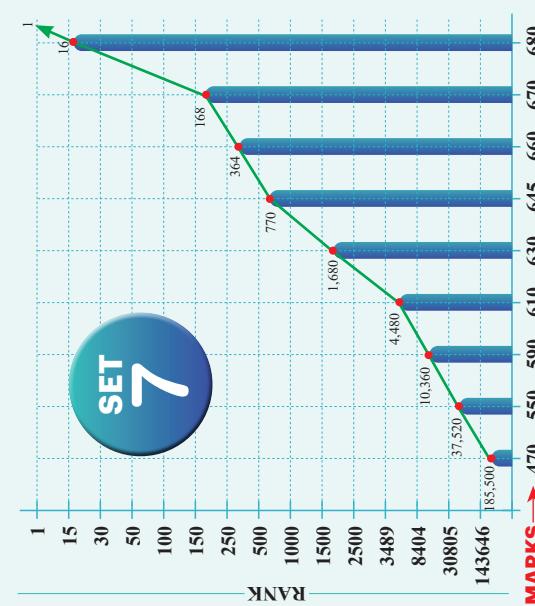
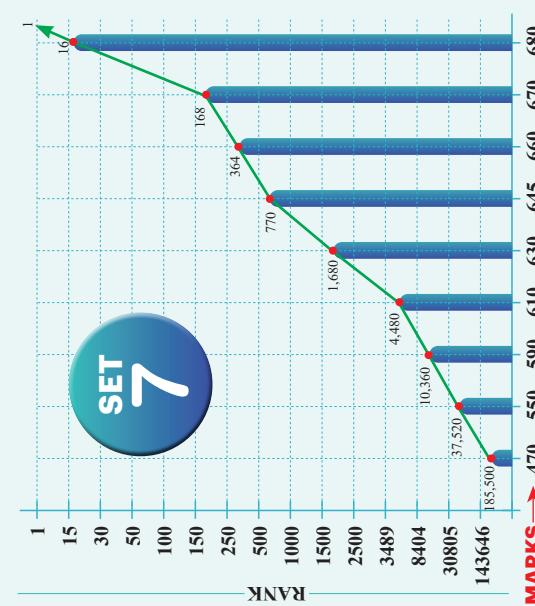
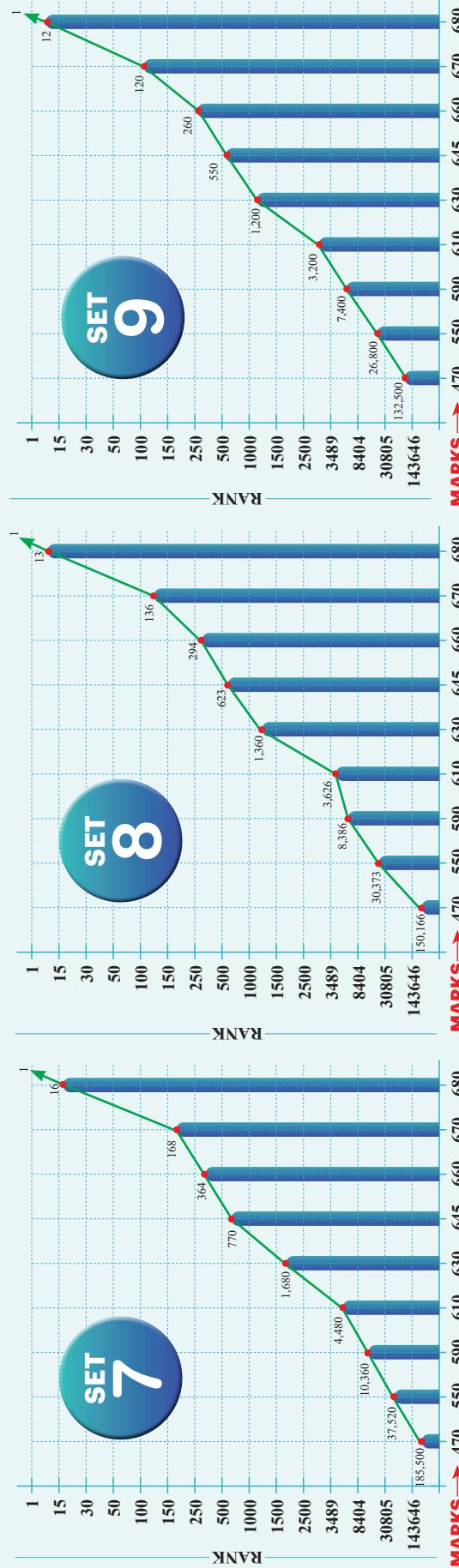
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RANK PREDICTOR

NEET-2026

AS PER
PAST YEAR
TREND &
PAPER
DIFFICULTY



606034



Test Booklet No.

ENGLISH

15

Test Booklet Code

NEET RANKERS TEST SERIES-2026



Do not open this Test Booklet until you are asked to do so.

Important Instructions:

1. The Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars on ORIGINAL Copy carefully with **blue/black** ball point pen only.
2. The test is of **3 hours** duration and the Test Booklet contains **180** multiple-choice questions (four options with a single correct answer) from **Physics, Chemistry and Biology (Botany and Zoology)**.
3. Wherever the symbols/constants are not mentioned, they are to be considered as per their standard meaning/value.
4. Each question carries **4** marks. For each correct response, the candidate will get **4 marks**. For each incorrect response, **one** mark will be deducted from the total scores. **The maximum marks are 720**.
5. **Use Blue/Black Ball Point Pen only** for writing particulars on this page/marking responses on Answer Sheet.
6. Rough work is to be done in the space provided for this purpose in the Test Booklet only.
7. On completion of the test, the candidate **must hand over the Answer Sheet (ORIGINAL and OFFICE Copy) to the Invigilator** before leaving the Room/Hall. The candidates are allowed to take away this Test Booklet with them.
8. **The CODE for this Booklet is 15. Make sure to enter this code in the OMR answer sheet.**
9. The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your Roll No. anywhere else except in the specified space in the Test Booklet/Answer Sheet.
10. Use of white fluid for correction is **NOT** permissible on the Answer Sheet.
11. Each candidate must show on-demand his/her Admit Card to the Invigilator.
12. No candidate, without special permission of the centre Superintendent or Invigilator, would leave his/her seat.
13. The candidates should not leave the Examination Hall without handing over their Answer Sheet to the Invigilator on duty and sign (with time) the Attendance Sheet twice. **Cases, where a candidate has not signed the Attendance Sheet second time, will be deemed not to have handed over the Answer Sheet and dealt with as an Unfair Means case.**
14. Use of Electronic/Manual Calculator is prohibited.
15. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Room/Hall. All cases of unfair means will be dealt with as per the Rules and Regulations of this examination along with Public Examinations (Prevention of unfair means act 2024).
16. **No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.**
17. The candidates will write the Correct Test Booklet Code as given in the Test Booklet/Answer Sheet in the Attendance Sheet.
18. If a candidate marks more than one answers for a question in the **OMR Sheet**, it will be treated as incorrect and negative marking will be applicable.

Name of the Candidate (in Capitals): _____

Roll Number : In figures _____

: In words _____

Centre of Examination (in Capitals): _____

Candidate's Signature: _____ **Invigilator's Signature:** _____

Facsimile Signature stamp of Centre Superintendent _____

1. When a body is taken from the equator to the poles, its weight;
 - (1) remains constant
 - (2) increases
 - (3) decreases
 - (4) increases at n-pole and decreases at s-pole
2. Current i is carried in a wire of length L . If the wire is turned into a circular coil, the maximum magnitude of torque in a given magnetic field B will be;

(1) $\frac{L^2 B^2 i}{2}$	(2) $\frac{L^2 B i}{2}$
(3) $\frac{L^2 i B}{4\pi}$	(4) $\frac{L^2 B i}{2\pi}$
3. A stone falls from a balloon that is descending at a uniform velocity of 12 ms^{-1} . The displacement of the stone from the point of release after 10 seconds is; ($g = 9.8 \text{ m/s}^2$)

(1) 490 m	(2) 510 m
(3) 610 m	(4) 750 m
4. A thermo-dynamic system is taken from state (P_1, V_1) to (P_2, V_2) by two different process. The quantity which will remain same in both process will be;

(1) ΔQ	(2) ΔW
(3) $\Delta Q + \Delta W$	(4) $\Delta Q - \Delta W$
5. In hydrogen atom, if the difference in the energy of the electron in $n = 2$ and $n = 3$ orbits is E , the ionisation energy of hydrogen atom is;

(1) $13.2E$	(2) $7.2E$
(3) $5.6E$	(4) $3.2E$
6. If the amplitude ratio of two sources producing interference is $3 : 5$, then the ratio of intensities at maxima and minima is;

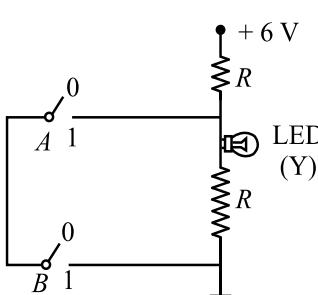
(1) $25 : 16$	(2) $16 : 1$
(3) $5 : 3$	(4) $25 : 9$

7. $220 \text{ V}, 50 \text{ Hz}, AC$ is applied to a resistor. The instantaneous value of voltage is;
 - (1) $220\sqrt{2} \sin 100\pi t$
 - (2) $220 \sin 100\pi t$
 - (3) $220\sqrt{2} \sin 50\pi t$
 - (4) $220 \sin 50\pi t$
8. Given below are two statements:

Statement-I: A charge is moving in a uniform magnetic field. The charge may experience no magnetic force.

Statement-II: Kinetic energy of a charged particle moving in a uniform magnetic field may change.

In the light of the above statements, choose the **correct** answer from the options given below:

 - (1) Statement-I is correct, but Statement-II is incorrect.
 - (2) Statement-I is incorrect, but Statement-II is correct.
 - (3) Statement-I and Statement-II both are correct.
 - (4) Statement-I and Statement-II both are incorrect.
9. The **correct** Boolean operation represented by the circuit diagram drawn is;
 

(1) OR	(2) NAND
(3) NOR	(4) AND

10. For hydrogen gas $C_p - C_v = a$ and for oxygen gas $C_p - C_v = b$ then the relation between a and b is;

(where C_p and C_v are specific heat capacity)

(1) $a = 16b$ (2) $a = b$
 (3) $b = 16a$ (4) $a = 4b$

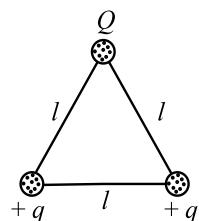
11. The electric field due to an electric dipole at a distance r from its centre in axial position is E . If the dipole is rotated through an angle of 90° about its perpendicular axis, then the magnitude of electric field at the same point will be;

(1) E (2) $\frac{E}{4}$
 (3) $\frac{E}{2}$ (4) $2E$

12. The dimensions of $\frac{a}{b}$ in the equation $p = \frac{a - t^2}{bx}$, where p is pressure, x is distance and t is time, are;

(1) $[M^2LT^{-3}]$ (2) $[MT^{-2}]$
 (3) $[LT^{-3}]$ (4) $[ML^3T^{-1}]$

13. Three charges Q , $+q$ and $+q$ are placed at the vertices of an equilateral triangle of side l as shown in the figure. If the net electrostatic energy of the system is zero, then Q is equal to;



(1) $-\frac{q}{2}$ (2) $-q$
 (3) $+q$ (4) $+\frac{q}{2}$

14. Match List-I with List-II

List-I		List-II	
A.	Stress \times strain	I.	J
B.	$\frac{YA}{l}$	II.	Nm^{-1}
C.	Yl^3	III.	Jm^{-3}
D.	$\frac{Fl}{AY}$	IV.	m

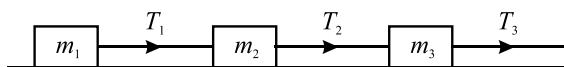
Choose the **correct** answer from the options given below:

(1) A-III, B-II, C-I, D-IV
 (2) A-III, B-II, C-IV, D-I
 (3) A-II, B-I, C-III, D-IV
 (4) A-II, B-III, C-IV, D-I

15. Drift velocity v_d varies with the intensity of electric fields as per the relation;

(1) $v_d \propto E$
 (2) $v_d \propto \frac{1}{E}$
 (3) $v_d = \text{constant}$
 (4) $v_d \propto E^2$

16. Three blocks of masses m_1 , m_2 and m_3 are connected by massless strings as shown on a frictionless table. They are pulled with a force $T_3 = 40$ N. If $m_1 = 10$ kg, $m_2 = 6$ kg and $m_3 = 4$ kg, the tension T_2 will be;



(1) 20 N (2) 40 N
 (3) 10 N (4) 32 N

17. Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R)

Assertion (A): When wavelength of incident radiation in a photoelectric experiment is decreased, then the stopping potential will decrease.

Reason (R): With decrease in wavelength, energy of incident light increases.

50. Percentage of Se in peroxidase anhydrase enzyme is 0.25% by weight (at. weight = 78.4 u), then minimum molecular weight of peroxidase anhydrase enzyme is;
 (1) $3.136 \times 10^3 \text{ g mol}^{-1}$
 (2) 31.36 g mol^{-1}
 (3) 3136 g mol^{-1}
 (4) $3.136 \times 10^4 \text{ g mol}^{-1}$

51. Given below are two statements:
Statement-I: The radius of second orbit of He^+ is equal to that of first orbit of hydrogen.
Statement-II: The radius of an orbit is directly proportional to n^2 and inversely proportional to Z . In the light of the above statements, choose the most appropriate answer from the options given below :
 (1) Statement-I is correct but Statement-II is incorrect.
 (2) Statement-I is incorrect but Statement-II is correct.
 (3) Both Statement-I and Statement-II are correct.
 (4) Both Statement-I and Statement-II are incorrect.

52. Consider the following statements;
 (I) 2-Chloroethanoic acid is more acidic than ethanoic acid.
 (II) Acidic strength order:

$$\text{H}-\text{C}(=\text{O})-\text{OH} > \text{C}(=\text{O})-\text{OH} > \text{R}-\text{C}(=\text{O})-\text{OH}$$

 (III) Acidic strength order:

$$\text{R}-\text{C}\equiv\text{N} < \text{R}-\text{C}(=\text{O})-\text{H} < \text{R}-\text{C}(=\text{O})-\text{R}$$

Select the **correct** statements;
 (1) I, II and III (2) I and II only
 (3) II and III only (4) I and III only

53. Which of the following pairs of compounds are isostructural?
 (1) XeF_2 and IF_2^-
 (2) NH_3 and BF_3
 (3) CO_3^{2-} and SO_3^{2-}
 (4) PCl_5 and ICl_5

54. Given below are two statement: one is labelled as Assertion (A) and the other is labelled as Reason (R)
Assertion (A): Addition of HBr to 1-butene gives two optical isomers.
Reason (R): The product contains one asymmetric carbon.
 In the light of the above statements choose the **correct** answer from the options given below:
 (1) (A) is true but (R) is false.
 (2) (A) is false but (R) is true.
 (3) Both (A) and (R) are true and (R) is the correct explanation of (A).
 (4) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).

55. Which of the following nitrogen containing compounds give Lassaigne's test?
 A. Phenyl hydrazine
 B. Glycine
 C. Urea
 D. Hydrazine
 (1) A and B (2) B and C
 (3) Both A and D (4) A, B and C

56. Which of the following reactions will give an alkyne as a major product?
 (1) $\text{CH}_3\text{CBr}_2\text{CHBr}_2 \xrightarrow{\text{Zn dust}}$
 (2) $\text{CH}_3\text{CH}_2\text{CHBr}_2 \xrightarrow{\text{alc. KOH}} \text{A} \xrightarrow{\text{NaNH}_2} \text{B}$
 (3) $\text{CH}_3\text{CHBrCH}_2\text{Br} \xrightarrow[2 \text{ eq.}]{\text{NaNH}_2}$
 (4) All of these

98. Which of the following shows convergent evolution?

- Lemur and Marsupial mouse
- Bobcat and Tasmanian tiger cat
- Numbat and Marsupial mole
- Anteater and Tasmanian wolf

99. Match List-I with List-II:

List-I		List-II	
A. <i>cryIAc</i>	I.	Emphysema	
B. <i>cryIAb</i>	II.	Cotton bollworm	
C. alpha-lactalbumin	III.	Corn borer	
D. alpha-1 antitrypsin	IV.	Milk	

Choose the **correct** answer from the options given below:

- A-II, B-III, C-IV, D-I
- A-III, B-II, C-IV, D-I
- A-IV, B-II, C-I, D-III
- A-II, B-IV, C-I, D-III

100. Select the **correct** statement(s).

- First menstrual cycle begins at puberty is called menopause.
- Lack of menstruation is indicative of pregnancy alone.
- In the absence of fertilization, the corpus luteum degenerates that causes disintegration of endometrium.
- Graafian follicles secrete the hormone, relaxin, during the later phase of pregnancy.

- A and C only
- C and D only
- C only
- D only

101. Match List-I with List-II:

List-I		List-II	
A. Reptilia	I.	Creep or crawl	
B. Osteichthyes	II.	Crop and gizzard	
C. Hemichordates	III.	Stomochord	
D. Aves	IV.	Air bladder	

Choose the **correct** answer from the options given below:

- A-III, B-I, C-IV, D-II
- A-II, B-III, C-I, D-IV
- A-I, B-IV, C-III, D-II
- A-III, B-IV, C-II D-I

102. Mark the **incorrect**.

- Truffles are edible fungi
- Rhizopus* is bread mould
- Albugo* is parasitic on plants
- Conidia is present in *Ustilago*

103. Match the type of fruit with their respective plant family:

Type of Fruits		Plant family	
A.	The fruit is often a capsule that splits open (schizocarp) or a nut	(i)	Cruciferae
B.	The fruit is a silique or silicle, which is a long, narrow pod that splits open to release seeds.	(ii)	Leguminosae
C.	The fruit is a legume (pod) that splits open along both sutures to release seeds.	(iii)	Gramineae
D.	The fruit can be an achene, a cypsela, or a pappus, depending on the individual florets.	(iv)	Malvaceae

E.	The fruit is typically a grain or caryopsis, which is a one-seeded fruit with the seed fused to the ovary wall.	(v)	Compositae
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- (1) A-(v), B-(iv), C-(iii), D-(ii), E-(i)
- (2) A-(i), B-(ii), C-(iii), D-(iv), E-(v)
- (3) A-(iv), B-(i), C-(ii), D-(v), E-(iii)
- (4) A-(iii), B-(i), C-(ii), D-(v), E-(iv)

104. Arrange the following components of an ecosystem in the order of energy flow:

- (a) Producers
- (b) Secondary consumers
- (c) Primary consumers
- (d) Decomposers
- (e) Sun

- (1) (e)-(a)-(c)-(b)-(d)
- (2) (e)-(a)-(b)-(c)-(d)
- (3) (a)-(b)-(c)-(d)-(e)
- (4) (d)-(c)-(b)-(a)-(e)

105. Match List-I with List-II:

List-I		List-II	
A.	Dicotyledonous Root	I.	Sclerenchymatous hypodermis
B.	Monocotyledonous Root	II.	Collenchymatous hypodermis
C.	Dicotyledonous Stem	III.	More than six xylem bundle & pith is well developed
D.	Monocotyledonous Stem	IV.	The pith is small or inconspicuous

Choose the **correct** answer from the options given below:

- (1) A-III; B-II; C-IV; D-I
- (2) A-III; B-II; C-I; D-IV
- (3) A-IV; B-III; C-II; D-I
- (4) A-II; B-I; C-III; D-IV

106. The most abundant enzyme in the animal world is:

- (1) collagen.
- (2) RuBisCO.
- (3) trypsin.
- (4) insulin.

107. Natural methods, such as the periodic abstinence method and lactational amenorrhea, help prevent pregnancy by avoiding chances of ovum and sperms meeting. Similarly, barrier methods like condoms and cervical caps prevent pregnancy by physically blocking sperm entry into the uterus. Choose the correct answer from the following:

- (1) The statement is true for both natural methods and barrier methods
- (2) The statement is true for natural methods but false for barrier methods
- (3) The statement is false for natural methods but true for barrier methods
- (4) The statement is false for both natural methods and barrier methods

108. Which of the following statements are **correct**?

- A. Pteridophytes form coal deposits.
- B. The first organisms that invaded land were shrews.
- C. Lichens can be used as industrial pollution indicators.
- D. *Tyrannosaurus rex* was the biggest dinosaur, which was about 20 feet in height.

Choose the *most appropriate* answer from the options given below:

- (1) A, B and C only
- (2) B, C and D only
- (3) A, C and D only
- (4) A, B and D only

109. Given below are two statements:

Statement-I: Robert Brown first saw and described a live cell.

Statement-II: Anton Von Leeuwenhoek discovered the nucleus.

In the light of the above statements, choose the *most appropriate* answer from the options given below:

- (1) Statement-I is correct but Statement-II is incorrect.
- (2) Statement-I is incorrect but Statement-II is correct.
- (3) Both Statement-I and Statement-II are correct.
- (4) Both Statement-I and Statement-II are incorrect.

110. Correct statements are

- (a) The excreta of cattle, commonly called gobar, is rich in *Rhizobium*.
- (b) In rumen, methanogens help in breakdown of cellulose.
- (c) Methanogens play an important role in the nutrition of cattle.
- (d) Methane, CO_2 and traces of nitrogen, hydrogen sulphide, and hydrogen make up biogas.

- (1) (a) & (b) (2) (b), (c) & (d)
- (3) (a) & (d) (4) (b) & (c)

111. Choose the **incorrectly** matched pair.

- (1) Tracheids- one of the main water transporting elements.
- (2) Vessel- characteristic feature of angiosperms.
- (3) Xylem fibres- highly thickened walls.
- (4) Xylem parenchyma- provide mechanical support.

112. Match **List-I** with **List-II**:

List-I		List-II	
A.	Amyloplasts	I.	Store proteins
B.	Chromoplasts	II.	Store oil and fats
C.	Aleuroplasts	III.	Store carbohydrates
D.	Elaioplasts	IV.	Carotenoid pigments

Choose the **correct** answer from the options given below:

- (1) A-II; B-III; C-IV; D-I
- (2) A-III; B-IV; C-I; D-II
- (3) A-IV; B-III; C-II; D-I
- (4) A-III; B-II; C-I; D-IV

113. Given below are two statements:

Statement-I: Oogenesis is initiated during the embryonic development stage.

Statement-II: Zona pellucida is a new membrane formed by the primary oocyte.

In the light of the above statements, choose the *most appropriate* answer from the options given below:

- (1) Statement-I is correct but Statement-II is incorrect.
- (2) Statement-I is incorrect but Statement-II is correct.
- (3) Both Statement-I and Statement-II are correct.
- (4) Both Statement-I and Statement-II are incorrect.

114. Match **List-I** with **List-II**:

List-I		List-II	
A.	<i>Epidermophyton</i>	I.	Ringworms
B.	<i>Wuchereria</i>	II.	Pneumonia
C.	<i>Salmonella</i>	III.	Elephantiasis
D.	<i>Streptococcus</i>	IV.	Typhoid

Choose the **correct** answer from the options given below:

- (1) A-I, B-III, C-IV, D-II
- (2) A-I, B-II, C-IV, D-III
- (3) A-III, B-II, C-IV, D-I
- (4) A-II, B-IV, C-I, D-III

145. In the process of fertilization, the pollen tube of a pollen grain typically gains access to the embryo sac through which specific region to ensure successful fertilization?

(1) Integument (2) Nucellus
 (3) Chalaza (4) Micropyle

146. Given below are two statements: one is labeled as Assertion A and the other is labeled as Reason R:
Assertion (A): *E. coli* having pBR322 with DNA insert at the *Bam H I* site can grow in medium containing tetracycline.

Reason (R): Recognition site for the *BamH I* is present in the tetracycline region of pBR322.

In the light of the above statements, choose the **correct** answer from the options given below:

(1) (A) is true but (R) is false.
 (2) (A) is false but (R) is true.
 (3) Both (A) and (R) are true and (R) is the correct explanation of (A).
 (4) Both (A) and (R) are true but (R) is NOT the correct explanation of (A).

147. Graves' disease is caused due to:

(1) hyposecretion of thyroid gland.
 (2) hypersecretion of thyroid gland.
 (3) hyposecretion of adrenal gland.
 (4) hypersecretion of adrenal gland.

148. Match **List-I** with **List-II**:

List-I		List-II	
A.	Tunica media	I.	End of systole
B.	Tunica externa	II.	Smooth muscle
C.	Number of QRS complexes	III.	Collagen fibre
D.	T-wave	IV.	Heart beat rate

Choose the **correct** answer from the options given below:

(1) A-IV, B-I, C-II, D-III
 (2) A-II, B-I, C-IV, D-III
 (3) A-II, B-III, C-IV, D-I
 (4) A-IV, B-II, C-III, D-I

149. Suppose an electrical current has moved DNA fragments through a gel. What does the band on this gel farthest from the top (from where the DNA fragments were added) represent?

(1) Shortest fragments of DNA.
 (2) Longest fragments of DNA.
 (3) All the fragments are found near the well only.
 (4) All of these

150. Match the following floral formula with their respective floral diagram and example:

Floral family	Floral Diagram	Example
(a) Malvaceae	1. 	(i) <i>Hibiscus rosasinensis</i>
(b) Brassicaceae	2. 	(ii) <i>Brassica rapa</i>
(c) Fabaceae	3. 	(iii) <i>Lathyrus odoratus</i>
(d) Solanaceae	4. 	(iv) <i>Solanum nigrum</i>

(e)	Gramineae	5.		(v)	<i>Triticum aestivum</i>
(f)	Compositae	6.		(vi)	<i>Helianthus annuus</i>

- (1) (a)-2-(i), (b)-1-(ii), (c)-4-(iii), (d)-3-(iv), (e)-6-(v), (f)-5-(vi)
- (2) (a)-3-(ii), (b)-2-(i), (c)-1-(vi), (d)-4-vi, (e)-5-(v), (f)-6-(iii)
- (3) (a)-1-(iii), (b)-6-(ii), (c)-5-(i), (d)-2-(vi), (e)-3-(v), (f)-4-(iv)
- (4) (a)-5-(iv), (b)-4-(ii), (c)-3-(iii), (d)-6-(iv), (e)-1-(vi), (f)-2-(v)

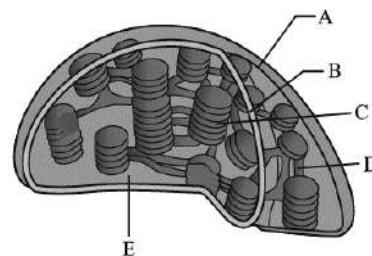
151. Match **List-I** containing characters with **List-II** containing recessive trait studied by Mendel in Pea plants

List-I (Characters)		List-II (Recessive trait)	
A.	Pod colour	I.	Yellow
B.	Seed colour	II.	Green
C.	Seed shape	III.	Wrinkled
D.	Pod shape	IV.	Constricted

Choose the **correct** answer from the options given below:

- (1) A-IV; B-III; C-II; D-I
- (2) A-III; B-IV; C-II; D-I
- (3) A-I; B-II; C-III; D-IV
- (4) A-II; B-I; C-III; D-IV

152. Consider the following five statements (A to E) w.r.t. chloroplast shown below. Select the correct option stating which ones are True (T) and which ones are False (F)



- A. It is impermeable
- B. It is relatively less permeable
- C. It is the site of production of assimilatory power
- D. Present between two grana and contains enzymes of dark reaction
- E. It contains enzymes for the synthesis of sugar and proteins

	A	B	C	D	E
(1)	F	T	T	T	T
(2)	F	T	T	F	T
(3)	T	F	T	T	T
(4)	T	F	F	T	T

153. Match **List-I** with **List-II**:

List-I		List-II	
A.	Invertebrates	I.	500 mya
B.	Jawless fish	II.	320 mya
C.	Sea weeds	III.	350 mya
D.	<i>Dryopithecus</i>	IV.	15 mya

Choose the **correct** answer from the options given below:

- (1) A-I, B-III, C-II, D-IV
- (2) A-II, B-III, C-IV, D-I
- (3) A-IV, B-II, C-I, D-III
- (4) A-II, B-IV, C-I, D-III

154. Given below are two statements:

Statement-I: RNAi is a method of cellular defense.

Statement-II: *Bacillus thuringiensis* produces protein that kills lepidopteran insects only.

In the light of the above statements, choose the *most appropriate* answer from the options given below:

- (1) Statement-I is correct but Statement-II is incorrect.
- (2) Statement-I is incorrect but Statement-II is correct.
- (3) Both Statement-I and Statement-II are correct.
- (4) Both Statement-I and Statement-II are incorrect.

155. Spirometer can assess all of these lung volumes, **except**:

- (1) inspiratory reserve volume.
- (2) expiratory reserve volume.
- (3) residual volume.
- (4) tidal volume.

156. Corpora quadrigemina are present on _____ portion of the midbrain.

- (1) dorsal (2) ventral
- (3) lateral (4) posterior

157. Match **List-I** with **List-II**:

List-I		List-II	
A.	MacLeod and McCarty	I.	<i>Lac</i> operon
B.	Hershey and Chase	II.	Semi-conservative DNA replication
C.	Meselson and Stahl	III.	Proved DNA as genetic material
D.	Jacob and Monod	IV.	Biochemical nature of transforming principle

Choose the **correct** answer from the options given below:

- (1) A-IV; B-III; C-II; D-I
- (2) A-III; B-IV; C-II; D-I
- (3) A-IV; B-II; C-III; D-I
- (4) A-II; B-I; C-III; D-IV

158. In a Mendelian cross, the F_2 generation had both genotypic and phenotypic ratios of 1: 2 : 1. What type of genetic inheritance pattern does it represent?

- (1) Co-dominance
- (2) Dihybrid cross
- (3) Monohybrid cross with complete dominance
- (4) Monohybrid cross with incomplete dominance

159. Match **List-I** with **List-II**:

	List-I		List-II
A.	Gametogenesis	I.	Transfer of sperms into female genital tract
B.	Insemination	II.	Formation of gametes
C.	Gestation	III.	Delivery of baby
D.	Parturition	IV.	Embryonic development

Choose the **correct** answer from the options given below:

- (1) A-IV, B-I, C-II, D-III
- (2) A-II, B-I, C-IV, D-III
- (3) A-II, B-III, C-IV, D-I
- (4) A-IV, B-II, C-III, D-I

160. Which of the following represents a palindromic sequence in DNA?

- (1) 5'-GAATTC-3'
3'-CTTAAG-5'
- (2) 5'-CCAATG-3'
3'-CAATTC-5'
- (3) 5'-CATTAG-3'
3'-GATAAC-5'
- (4) 5'-GATACC-3'
3'-CCTAAG-5'

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MOTHER's NAME (in running handwriting) **FATHER's NAME** (in running handwriting)

CANDIDATE's name (in running handwriting)	CANDIDATE'S LEFT HAND THUMB IMPRESSION	SIGNATURE OF INVIGILATOR'S WITH TIME
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ANSWER KEY

1. (2)	46. (1)	91. (2)	136. (2)
2. (1)	47. (2)	92. (3)	137. (1)
3. (4)	48. (1)	93. (3)	138. (3)
4. (3)	49. (3)	94. (1)	139. (1)
5. (3)	50. (3)	95. (2)	140. (4)
6. (3)	51. (1)	96. (3)	141. (3)
7. (2)	52. (2)	97. (4)	142. (3)
8. (2)	53. (1)	98. (1)	143. (1)
9. (3)	54. (2)	99. (4)	144. (4)
10. (2)	55. (2)	100. (2)	145. (3)
11. (2)	56. (2)	101. (4)	146. (1)
12. (2)	57. (2)	102. (4)	147. (1)
13. (2)	58. (1)	103. (4)	148. (3)
14. (1)	59. (2)	104. (2)	149. (3)
15. (2)	60. (2)	105. (4)	150. (3)
16. (1)	61. (3)	106. (1)	151. (2)
17. (4)	62. (1)	107. (4)	152. (4)
18. (3)	63. (1)	108. (2)	153. (4)
19. (4)	64. (2)	109. (3)	154. (3)
20. (2)	65. (4)	110. (2)	155. (2)
21. (3)	66. (2)	111. (2)	156. (3)
22. (2)	67. (4)	112. (1)	157. (2)
23. (2)	68. (1)	113. (3)	158. (1)
24. (3)	69. (1)	114. (1)	159. (4)
25. (2)	70. (3)	115. (3)	160. (3)
26. (2)	71. (3)	116. (2)	161. (2)
27. (3)	72. (2)	117. (4)	162. (2)
28. (4)	73. (1)	118. (4)	163. (3)
29. (1)	74. (1)	119. (2)	164. (1)
30. (1)	75. (2)	120. (3)	165. (3)
31. (1)	76. (1)	121. (1)	166. (4)
32. (4)	77. (3)	122. (1)	167. (3)
33. (4)	78. (1)	123. (3)	168. (3)
34. (1)	79. (1)	124. (3)	169. (2)
35. (3)	80. (1)	125. (3)	170. (2)
36. (3)	81. (2)	126. (3)	171. (1)
37. (2)	82. (1)	127. (4)	172. (3)
38. (2)	83. (3)	128. (1)	173. (4)
39. (2)	84. (1)	129. (1)	174. (4)
40. (2)	85. (1)	130. (3)	175. (1)
41. (1)	86. (4)	131. (1)	176. (1)
42. (1)	87. (3)	132. (3)	177. (1)
43. (1)	88. (2)	133. (2)	178. (2)
44. (3)	89. (1)	134. (3)	179. (4)
45. (2)	90. (3)	135. (3)	180. (2)

HINTS & SOLUTIONS

1. (2)

The dimensional formula of surface tension = $[MT^{-2}]$, impulse = $[MLT^{-1}]$ which does not have same dimensions.

(NCERT Ed. 2025-26, 11th, Page No. 7)

2. (1)

In uniform circular motion, only magnitude of acceleration remains constant and its direction changes.

(NCERT Ed. 2025-26, 11th, Page No. 42)

3. (4)

Distance \geq |Displacement|

$$\therefore \left| \frac{\text{Distance}}{\text{Displacement}} \right| \geq 1$$

(NCERT Ed. 2025-26, 11th, Page No. 14)

4. (3)

From triangle law

$$\vec{B} = \vec{A} + \vec{C}$$

(NCERT Ed. 2025-26, 11th, Page No. 30)

5. (3)

When colliding bodies are of same masses the maximum transfer of energy takes place.

(NCERT Ed. 2025-26, 11th, Page No. 84)

6. (3)

$$p = \sqrt{2mK} \Rightarrow p \propto \sqrt{m}$$

$$\therefore \frac{p_1}{p_2} = \sqrt{\frac{m_1}{m_2}} = \sqrt{\frac{1}{4}} \Rightarrow \frac{p_1}{p_2} = \frac{1}{2}$$

(NCERT Ed. 2025-26, 11th, Page No. 14)

7. (2)

Average velocity

$$\begin{aligned} &= \frac{\text{Net displacement}}{\text{total time}} = \frac{AO + OB}{\text{time}} \\ &= \frac{1+1}{1} = 2 \text{ m/s} \end{aligned}$$

(NCERT Ed. 2025-26, 11th, Page No. 14)

8. (2)

$$\vec{r} = (3t^2\hat{i} + 4\hat{j}) \text{ m}$$

$$\begin{aligned} \vec{v} &= \frac{d\vec{r}}{dt} = \frac{d}{dt}(3t^2\hat{i} + 4\hat{j}) \\ &= (6t\hat{i} + 4\hat{j}) \text{ m/s} \end{aligned}$$

$$\vec{a} = \frac{d\vec{v}}{dt} = \frac{d}{dt}(6t\hat{i} + 4\hat{j}) = 6\hat{i} \text{ m/s}^2$$

(NCERT Ed. 2025-26, 11th, Page No. 37)

9. (3)

$$F = \sqrt{F_1^2 + F_2^2 + 2F_1F_2\cos90^\circ}$$

$[\because$ vectors are perpendicular, $\therefore \theta = 90^\circ]$

$$\therefore F = \sqrt{F_1^2 + F_2^2}$$

(NCERT Ed. 2025-26, 11th, Page No. 32)

10. (2)

$$u_x = 1 = \frac{x}{t}$$

$$\Rightarrow x = t \dots (1)$$

$$u_y = 1$$

$$y = u_y t - \frac{1}{2}t^2$$

$$y = t - \frac{1}{2}t^2 \dots (2)$$

From (1) and (2)

$$y = x - \frac{1}{2}x^2$$

(NCERT Ed. 2025-26, 11th, Page No. 39)

11. (2)

Center of mass lies on line about which there is symmetry. It shifts away from the region of removed mass.

(NCERT Ed. 2025-26, 11th, Page No. 98)

12. (2)

$$U(x) = 2x^4 - 27x \Rightarrow \frac{dU}{dx} = 8x^3 - 27$$

Setting $\frac{dU}{dx} = 0$ gives

$$8x^3 = 27 \Rightarrow x = \frac{3}{2} \quad (\text{point of equilibrium})$$

$$\text{Next, } \frac{d^2U}{dx^2} = 24x^2,$$

$$\left. \frac{d^2U}{dx^2} \right|_{x=3/2} = 24 \left(\frac{3}{2} \right)^2$$

$$= 24 \cdot \frac{9}{4} = 54 > 0$$

Since the second derivative is positive, so $x = \frac{3}{2}$ is a stable equilibrium.

(NCERT Ed. 2025-26, 11th, Page No. 77)

13. (2)

$$v^2 = u^2 + 2gh$$

$$\Rightarrow (3u)^2 = (-u)^2 + 2gh$$

$$\Rightarrow h = \frac{4u^2}{g}$$

(NCERT Ed. 2025-26, 11th, Page No. 18)

14. (1)

In case $x-t$ graph is a straight line, the slope of this line gives velocity of the particle.

The velocities of two particles A and B are

$$v_A = \tan 30^\circ = \frac{1}{\sqrt{3}}$$

$$v_B = \tan 45^\circ = 1$$

The ratio of velocities,

$$v_A : v_B = \frac{1}{\sqrt{3}} : 1 = 1 : \sqrt{3}$$

(NCERT Ed. 2025-26, 11th, Page No. 14)

15. (2)

$$\Delta\vec{r} = \vec{r}_2 - \vec{r}_1 = (3\hat{i} + 7\hat{j}) - (2\hat{i} + 4\hat{j})$$

$$= (\hat{i} + 3\hat{j}) \text{ m}$$

$$W = \vec{F} \cdot \Delta\vec{r} = (2\hat{i} + 3\hat{j}) \cdot (\hat{i} + 3\hat{j}) = 11 \text{ J}$$

(NCERT Ed. 2025-26, 11th, Page No. 74)

16. (1)

$$x = at^2 - bt^3$$

$$\frac{dx}{dt} = 2at - 3bt^2$$

$$v = 2at - 3bt^2$$

$$\frac{dv}{dt} = 2a - 6bt$$

$$\text{acceleration} = \frac{dv}{dt} = (2a - 6bt) = 0$$

$$\therefore t = \frac{a}{3b}$$

(NCERT Ed. 2025-26, 11th, Page No. 16)

17. (4)

$$\text{Position, } x = 3t^2 + 5$$

$$\therefore \text{Velocity, } v = \frac{dx}{dt} = \frac{d(3t^2 + 5)}{dt}$$

$$\Rightarrow v = 6t + 0.$$

$$\text{At } t = 0 \rightarrow v = 0$$

$$\text{And, at } t = 5 \text{ s} \rightarrow v = 30 \text{ m/s}$$

According to work-energy theorem,
 $W = \Delta KE$

$$W = \frac{1}{2}mv^2 - 0 = \frac{1}{2}(2)(30)^2 = 900 \text{ J}$$

(NCERT Ed. 2025-26, 11th, Page No. 73)

18. (3)

$$1001 \rightarrow 4 \text{ SF}$$

$$010.1 \rightarrow 3 \text{ SF}$$

$$100.100 \rightarrow 6 \text{ SF}$$

$$0.0010010 \rightarrow 5 \text{ SF}$$

(NCERT Ed. 2025-26, 11th, Page No. 4)

19. (4)

$$K = \frac{GMm}{2r}, K \propto \frac{1}{r}$$

$$r \uparrow \Rightarrow K \downarrow$$

$$U = -\frac{GMm}{r}, U \propto \left(-\frac{1}{r}\right)$$

$$r \uparrow \Rightarrow U \uparrow$$

$$E = -\frac{GMm}{2r}, E \propto \left(-\frac{1}{r}\right)$$

$$r \uparrow \Rightarrow E \uparrow$$

(NCERT Ed. 2025-26, 11th, Page No. 138)

20. (2)

It will remain the same as the gravitational force is independent of the medium separating the masses.

(NCERT Ed. 2025-26, 11th, Page No. 129)

21. (3)

$$x(t) = A\sin(t) + B\cos^2(t) + Ct^2 + D$$

Here, A, B, C , and D are constants, and t is time.

$$[A] = L, [B] = L, [C] = \frac{L}{T^2}, [D] = L$$

$$\left[\frac{ABC}{D} \right] = \left[\frac{L \times L \times LT^{-2}}{L} \right] = [L^2 T^{-2}]$$

(NCERT Ed. 2025-26, 11th, Page No. 8)

22. (2)

$$p = a + bt^2$$

$$\Rightarrow F = \frac{dp}{dt} = 2bt$$

$$\therefore F \propto t$$

(NCERT Ed. 2025-26, 11th, Page No. 54)

23. (2)

Gravitational force is always attractive and a long range force. It is independent of the presence of other particles.

(NCERT Ed. 2025-26, 11th, Page No. 130)

24. (3)

Areal velocity remains constant in elliptical orbit of planetary motion,

$$\frac{dA}{dt} = \frac{L}{2m}.$$

(NCERT Ed. 2025-26, 11th, Page No. 128)

25. (2)

$$y = \frac{32.3 \times 1125}{27.4}$$

$$y = 1326.186$$

Significant Figures Rule:

The given numbers have 3 least significant digits.

The result must also be rounded to 3 significant digits.

$$\therefore y = 1330$$

(NCERT Ed. 2025-26, 11th, Page No. 5)

26. (2)

Total distance travelled

$$= d + d = 2d \text{ km}$$

Total time taken = 2 + 3 = 5 hours

Average speed

$$= \frac{\text{Total distance}}{\text{Total time}} = \frac{2d}{5} \text{ km/hr}$$

(NCERT Ed. 2025-26, 11th, Page No. 14)

27. (3)

Given, $v = 15 \text{ ms}^{-1}$, $v_0 = 30 \text{ ms}^{-1}$

and $t = 2 \text{ s}$

Using relation, $v = v_0 + at$

$$a = \frac{v - v_0}{t} = \frac{(15 - 30) \text{ ms}^{-1}}{2 \text{ s}}$$

$$= -\frac{15}{2} \text{ ms}^{-2} = -7.5 \text{ ms}^{-2}$$

(NCERT Ed. 2025-26, 11th, Page No. 15)

28. (4)

Let u be initial velocity of projection at angle θ with the horizontal. Then, horizontal range,

$$R = \frac{u^2 \sin 2\theta}{g}$$

$$\text{and maximum height } H = \frac{u^2 \sin^2 \theta}{2g}$$

$$\text{Given, } R = 4\sqrt{3}H$$

$$\therefore \frac{u^2 \sin 2\theta}{g} = 4\sqrt{3} \cdot \frac{u^2 \sin^2 \theta}{2g}$$

$$\Rightarrow 2 \sin \theta \cos \theta = 2\sqrt{3} \sin^2 \theta$$

$$\Rightarrow \cot \theta = \sqrt{3} = \cot 30^\circ$$

$$\therefore \theta = 30^\circ$$

(NCERT Ed. 2025-26, 11th, Page No. 39)

29. (1)

Rear wheel: Pedalling tries to push the contact point backward, so friction acts forward to move the cycle ahead. Front wheel: No driving torque, so as the cycle moves, friction acts backward to make the wheel rotate properly.

So, on rear wheel friction is forward, on front wheel friction is backward.

(NCERT Ed. 2025-26, 11th, Page No. 62)

30. (1)

Impulse is a physical quantity which is equal to change in momentum, so it will have same dimension as that of momentum.

Hence, it can be inferred that both assertion and reason are true and the given reason is the correct explanation of the given assertion.

(NCERT Ed. 2025-26, 11th, Page No. 55)

MISSION AIR

P
W

P
W



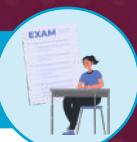
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