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THE TIMES OF INDIA

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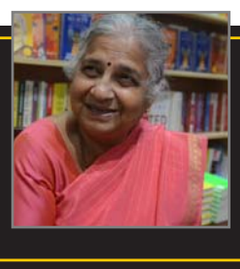
TODAY'S EDITION

➤ Practice makes you perfect. Check out the mock papers for Physics and Computers, and test yourself

PAGE 2

➤ A Bengaluru student talks about how author and mentor Sudha Murty inspires her in life

PAGE 3



➤ India thrash New Zealand by 37 runs to win Test series 1-0

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STUDENT EDITION

TUESDAY, DECEMBER 7, 2021

TIMES nie Newspaper in Education

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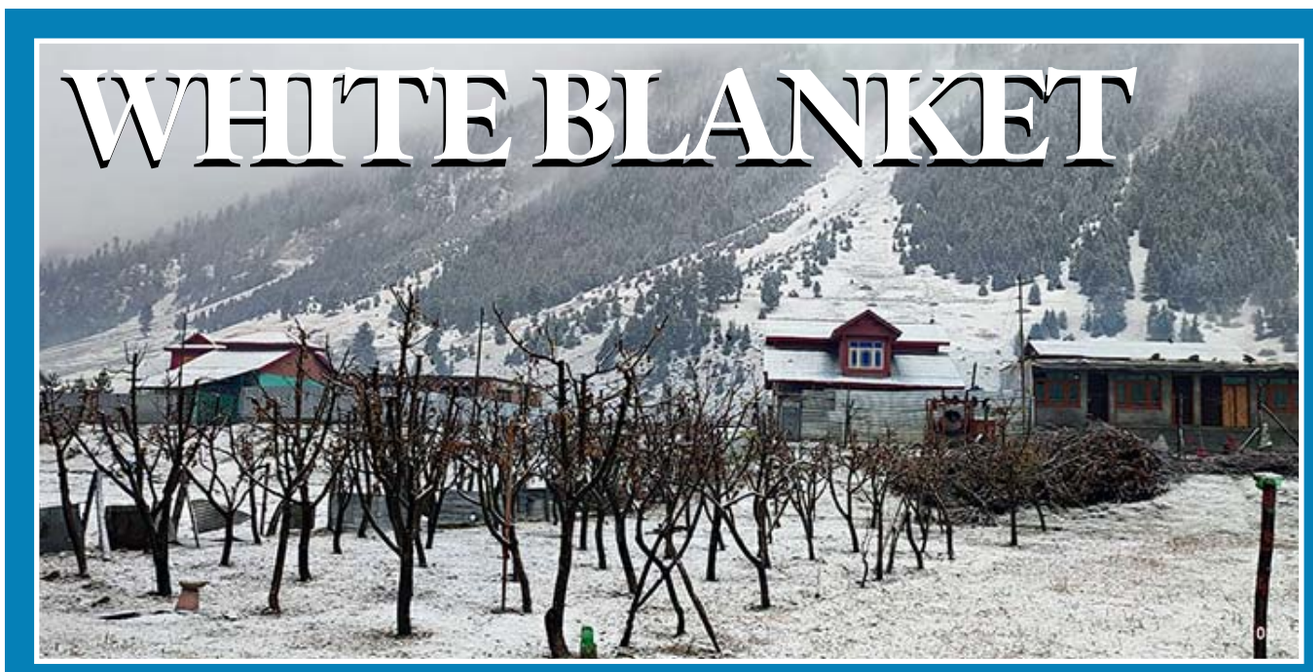


- Many areas in the higher reaches of Jammu and Kashmir received fresh snowfall on Sunday, while rains lashed the plains, ending the dry spell, officials said
- The minimum temperature rose across Kashmir and settled above the freezing point at most places of the valley on Sunday morning
- Srinagar recorded a low of 0.6 degrees Celsius on Sunday morning. Pahalgam, which serves as the base camp for the Amarnath Yatra, recorded 2.7 degrees Celsius PTI

CUT DOWN ON PROCESSED FOODS TO SAVE EARTH: STUDY

Reducing junk food consumption will not only help you to stay fit but also save the planet. A new study published in the journal 'Current Nutrition Reports' has stated interesting observations

1 Australia and New Zealand households eat more discretionary and junk foods than recommended by dietary guidelines, contributing to food-related greenhouse gas emissions (GHGe) and other environmental impacts, states the study.

2 University of South Australia (UniSA) dietitian Sara Forbes, who led a review examining 20 studies on the environmental impacts of food consumption in both countries, said the findings highlighted the need for more sustainable dietary choices.

3 According to a Federal Government report released in 2020, Australia emitted an estimated 510 metric tonnes of carbon dioxide, with food-related emissions accounting for 14.2 per cent of this total. The report found that the average Australian produces the equivalent of 19.7kg of carbon dioxide each day via their diets.

4 In New Zealand, the highest greenhouse gas emitters are meat, seafood and eggs (35 per cent), followed by highly processed foods such as pastries and ice cream (34 per cent). Other studies examined the environmental impacts of water use in food production. **WORLDWIDE, FOOD CONSUMPTION AND PRODUCTION ACCOUNT FOR ONE-QUARTER OF TOTAL GLOBAL EMISSIONS, STATES THE STUDY.** ANI

FOODS AND GREEN HOUSE GAS EMISSIONS

Non-core or 'discretionary' foods include sugar-sweetened drinks, alcohol, confectionery and processed meats, accounting for between 27-33 per cent of food-related GHGe. These are large amounts of avoidable energy-rich, nutrient-poor foods that does not not help the environment, states study.

Yahoo India: PM Modi India's most-searched personality, followed by Virat Kohli; Aryan Khan top newsmaker

Yahoo India announced its 2021 Year in Review, and saw a number of new entries.

- Prime Minister Narendra Modi reclaimed the India's Most-Searched Personality title, a position he has held consistently since 2017. PM Modi had lost the title last year to late actor Sushant Singh Rajput.
- Cricketer Virat Kohli, who had a chequered year with highs and lows, came in at No. 2.
- West Bengal Chief Minister Mamata Banerjee grabbed the top 3 slot with her decisive win in the state assembly election.
- The sudden demise of TV actor Sidharth Shukla placed him at No. 4.
- This year's list had a notable new entrant, actor Shah Rukh Khan's son Aryan who came in at No. 7 on the Most-Searched Personality list, with massive interest online following his arrest by the Narcotics Control Bureau in Oct. ET

NEWS IN CLUES

Name the IMF's first female chief economist

CLUE 1: The 49-year-old was born in Kolkata, West Bengal.

CLUE 2: A naturalised American citizen, she was awarded the Pravasi Bharatiya Samman, the highest honour for a person of Indian origin, in 2019.

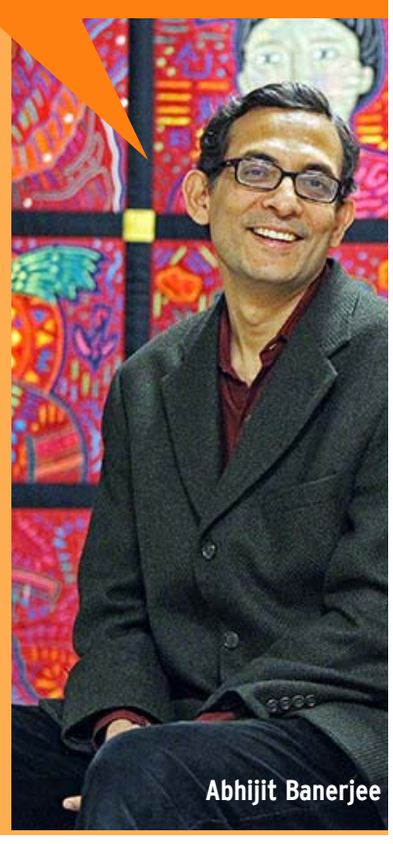
CLUE 3: The only governmental association she took up in India was as economic advisor to the Kerala CM.

Answer: **GITA GOPINATH.** The International Monetary Fund's (IMF's) high-profile chief economist who will become the No. 2 official at the Washington-based crisis lender next month. Gopinath will succeed Geoffrey Okamoto as first deputy managing director, serving under IMF chief Kristalina Georgieva – the first time two women have held the top leadership roles.

'You students are in a place where you can give back'

People in India are in 'extreme pain' and the economy is still below the 2019 levels, with 'small aspirations' of people becoming even smaller now, Nobel laureate economist Abhijit Banerjee said, while addressing students of the Ahmedabad University in Gujarat virtually.

"You (students) are in a place where you can give back. Society really needs it. We are in a time of extreme pain in India," he said. "I just spent some time in rural West Bengal and stories you hear about, you know, all the aspirations that have been a little bit dashed are very real...small aspirations which became smaller now," Banerjee said. "I think we are in a moment of great pain. The economy is still well below as against what it was in 2019," he said. PTI



Abhijit Banerjee

13-YEAR-OLD FROM DELHI PENS 'AMALGAM' OF ALL ISSUES

Anantinee Mishra, a thirteen-year-old, Delhi-based author has recently launched her new book 'Amalgam'. With her book, the author is presenting the perspective of a teenage girl who is covering a wide spectrum of subjects from book reviews, insightful articles, well-written poems to short stories.

The author has successfully published four books till now. From being the youngest author, a TED Speaker, Content Creator to Podcaster, Anantinee has been following multiple pursuits. Her first book titled 'Treasure of Short Stories' comprises 21,000 words anthology of stories. It was also released in Hindi with the name 'Khazana Kahaniyon Ka' in September 2021. The fifth book 'Amalgam' which is a fusion of prose and poetry was launched on November 14, 2021.

Her second book, 'Manhattan to Munnar' was released on February 10, 2021 by Chief Minister of Odisha, Naveen Patnaik. The book is also available in the Odia language.

ANI

"I am grateful to the opportunities that I've received. The biggest moment in my life till now is getting felicitated by Odisha CM Naveen Pattnaik. I will make sure to put my best foot forward to produce results that create magic in the writing industry. ANANTINEE MISHRA"

PRINCE WILLIAM OPENS UP ON 'FAMILY TIME'

Prince William, the second in line to Britain's throne, has opened up about sensitive topics such as coping with mental health pressures during his work as an air ambulance rescue pilot and memories of his late mother Princess Diana.

Speaking on Apple's 'Time to Walk' podcast, the 39-year-old Duke of Cambridge also reflected upon the royal family's love of long walks as well as the life lessons he has picked up over the years. "My whole family have a passion for walking – whether it's my Grandmother (Queen Elizabeth II)

Prince William recalled memories of his mother singing Tina Turner's song 'The Best' at the "top of her voice" with her sons on the way to school to help ease his anxiety

still taking her corgis out at 95; my father (Prince Charles) embarking on lengthy rambles over the summer in Scotland; or my own children making their first appearance at our annual walk to church on Christmas at Sandringham," he said.

Recalling car rides to school with his mother Princess Diana, he said, "You'd be singing and listening to music right the way up to the gates of school when they dropped you off and that's when reality kind of sunk in – you really were going back to school." PTI

RACE TO EARTH: How fast can you skydive?

Kyle Lobpries jumps out of the airplane – backward. As he watches it fly away, he leans back and shifts his gaze toward the inverted horizon, the sky bowing before the earth. He continues to drift until he feels he is perfectly perpendicular to the planet. Then he locks his knees, points his toes, tucks his arms into his sides, shrugs his shoulders and hurls himself toward land...

- In October, at the US Parachute Association Nationals in Arizona, Lobpries became the fastest athlete in the sport when he reached a speed of 318.74 mph
- This record blows by the top speeds of NASCAR, IndyCar and Formula 1 drivers, who have never surpassed 260 mph in official competitions

SKY DIVING AS A SPORT

This technique, developed by jumping out of a plane 5-10 times a day, is just part of the explanation for how Lobpries has propelled himself to the peak of the sport of speed skydiving. First developed in Florida in 1999, speed skydiving began gaining recognition as an international discipline in the early 2000s. The sport pits extreme thrill seekers against each other – and the laws of physics.

LAWS OF PHYSICS

In a vacuum, as you may recall from middle school science, all objects fall at the same rate. Without air resistance, anything from a feather to a fuel tanker will accelerate toward the earth at a rate of 9.8 metres per second squared. But because of the earth's atmosphere, free-falling objects eventually reach terminal velocity, in which acceleration slows to zero. For an average amateur skydiver, who departs a plane feet first and faces the earth with her belly, terminal velocity is about 120 mph. NYT

However difficult like may seem, there is always something you can do and succeed at.

-Stephen Hawking

GET CHARGED TO EXCEL IN PHYSICS

EXAMS Rfun

CLASS: XII - 2021-22

SUBJECT: PHYSICS (CBSE)

Maximum Marks: 35

PRACTICE PAPER SET BY MANJU RATHEE, UDGAM SCHOOL FOR CHILDREN, AHMEDABAD

GENERAL INSTRUCTIONS

1. You may use the following values of physical constants wherever necessary.

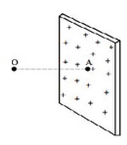
$e = 1.6 \times 10^{-19}\ C$
$c = 3 \times 10^{8}\ ms^{-1}$
$h = 6.6 \times 10^{-34}\ JS$
$\mu_o = 4\pi \times 10^{-7}\ NA^{-2}$
$k_B = 1.38 \times 10^{23}\ JK^{-1}$
$N_A = 6.023 \times 10^{23}\ /\ mole$
$m_n = 1.6 \times 10^{-27}\ kg$

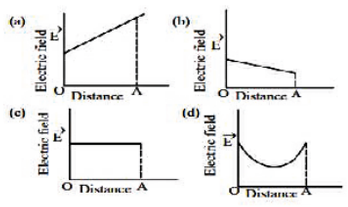
DIRECTIONS (Q1-Q27): Select the most appropriate option from given below each question.

Q1. A charge Q is enclosed by a Gaussian spherical surface of radius R. If the radius is doubled, then the outward electric flux will
(a) increase four times
(b) be reduced to half
(c) remain the same **(d)** be doubled

Q2. The falling of a water droplet of mass 1 mg is just prevented by upward electric field of magnitude 0.1 k N/C. The charge on the droplet of water is ___. [g=9.8 m/s²]
(a) 9.8×10^{11} C **(b)** 0.1×10^{-11} C
(c) 9.8×10^{-8} C **(d)** 0.98 C

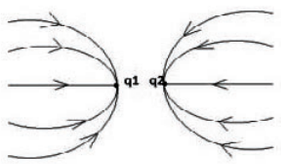
Q3. Figure shows the part of an infinite plane sheet of charge. Which of the following graphs correctly shows the behaviour of electric field intensity as we move from point O to A.





Q4. The work done in rotating the dipole having dipole moment p, from stable to unstable equilibrium in a uniform electric field E is
(a) p E **(b)** –p E **(c)** 2pE **(d)** –2pE

Q5. What can be the nature of charges q_1 and q_2?



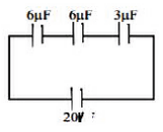
(a) q1 is positive, q2 is negative
(b) q1 is negative, q2 is negative
(c) q1 is negative, q2 is positive
(d) q1 is positive, q2 is positive

Q6. Electric field and electric potential inside a charged spherical shell:
(a) E = 0; V = 0 **(b)** E = 0; V ≠ 0
(c) E ≠ 0; V = 0 **(d)** E ≠ 0; V ≠ 0

Q7. If two charged particles having a charge of 2×10^{-5} C each, are brought from infinity to within a separation of 10 cm, then the increase in P.E during the process will be ____.
(a) 18 J **(b)** 36 J **(c)** 10 J **(d)** 40 J

Q8. Two condenser of capacity C_1 and C_2 are connected in parallel. If a charge q is given to the assembly, the charge gets shared. The ratio of the charge on the condenser C_1 to the charge on the condenser C_2 is ____
(a) $1/(C_1C_2)$ **(b)** 1 / 1 **(c)** C_2/C_1 **(d)** C_1/C_2

Q9. The capacitor, whose capacitance is 6 μF, 6 μF and 3 μF respectively are connected in series with 20 volt line. Find the charge on 3 μF.

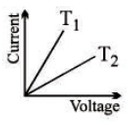


(a) 30 μC **(b)** 60 μC **(c)** 15 μC **(d)** 90 μC

Q10. If in a parallel plate capacitor, which is connected to a battery, we fill dielectrics in whole space of its plates, then which of the following increases?
(Q – charge, V – potential difference, E – Electric field, C – Capacitance)
(a) Q and V **(b)** V and E
(c) E and C **(d)** Q and C

Q11. If two identical cells are connected first in series, and then in parallel, then the ratio of balancing length in the potentiometer wire will be:
(a) 2: 1 **(b)** 1: 2 **(c)** 1: 4 **(d)** 4: 1

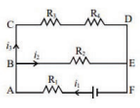
Q12. The voltage V and current I graphs for a conductor at two different temperatures T_1 and T_2 are shown in the figure. The relation between T_1 and T_2 is



(a) $T_1 > T_2$ **(b)** $T_1 < T_2$ **(c)** $T_1 = T_2$ **(d)** $T_1 = 1/T_2$

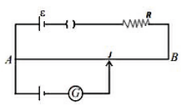
Q13. The internal resistance of a 2.1 V cell which gives a current of 0.2 A through a resistance of 10 Ω is
(a) 0.5 Ω **(b)** 0.8 Ω **(c)** 1.0 Ω **(d)** 0.2 Ω

Q14. Which of the following is the correct equation when Kirchhoff's loop rule is applied to the loop BCDEB in clockwise direction?



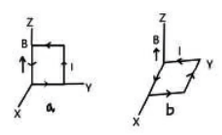
(a) $-i_3R_3 - i_3R_4 - i_2R_2 = 0$
(b) $-i_3R_3 - i_3R_4 + i_2R_2 = 0$
(c) $-i_3R_3 + i_3R_4 + i_2R_2 = 0$
(d) $-i_3R_3 + i_3R_4 + i_2R_2 = 0$

Q15. AB is a wire of potentiometer with the increase in value of resistance R, the shift in the balance point J will be



(a) towards B **(b)** towards A
(c) remains constant
(d) first towards B then back towards A

Q16. What is the torque and force in the two cases as shown in the fig.?



(a) $T_a < T_b$, $F_a \neq 0$, $F_b \neq 0$
(b) $T_a > T_b$, $F_a = F_b = 0$
(c) $T_a = T_b = 0$, $F_a = F_b = 0$
(d) $T_a = T_b$, $F_a = F_b = 0$

Q17. In a Wheatstone bridge all the four arms have equal resistance R. If the resistance of galvanometer arm is also R, the equivalent resistance of combination is
(a) 2R **(b)** R/4 **(c)** R/2 **(d)** R

Q18. What is the function of radial field in the moving coil galvanometer?
(a) to make the torque acting on the coil maximum.
(b) to make the magnetic field strong.
(c) to make the current scale linear.
(d) all the above.

Q19. Which device will have the least resistance?
(a) Ammeter of range 1A
(b) Ammeter of range 10 A
(c) Voltmeter of range 1 V
(d) Voltmeter of range 10 V

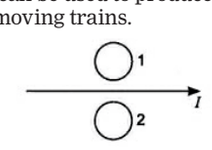
Q20. At a certain place, the horizontal component of the earth's magnetic field is √3 times the vertical component. The angle of dip at the place is _____.
(a) 75° **(b)** 60° **(c)** 45° **(d)** 30°

Q21. A wire of length 'L' carries a current I. It is bent in the form of a circle. The magnetic moment of current loop (in amp-m²) is ___.
(a) $IL^2/4\pi^2$ **(b)** $1\pi L^2$ **(c)** $IL^2/4\pi$ **(d)** $4\pi I L^2$

Q22. A horizontal straight wire 10 m long extending from east to west is falling with a speed of 5.0 m s^{-1} at right angles to the horizontal component of the earth's magnetic field, 0.3×10^{-4} Wb m^{-2}. What is the instantaneous value of the emf induced in the wire?
(a) 1.5×10^{-4} V west to east
(b) 1.5×10^{-4} V east to west
(c) 1.5×10^{-3} V west to east
(d) 1.5×10^{-3} V east to west

Q23. Identify the wrong statement.
(a) Eddy currents are produced in a steady magnetic field.
(b) Eddy currents can be minimized by using laminated core.
(c) Induction furnace uses eddy current to produce heat.
(d) Eddy current can be used to produce braking force in moving trains.

Q24. What is the direction of induced currents in metal rings 1 and 2 when current I in the wire is increasing steadily?



(a) clockwise in metal ring 1 and anticlockwise in metal ring 2.
(b) Anti-clockwise in metal ring 1 and clockwise in metal ring 2.
(c) Clockwise in both
(d) Anti-clockwise in both

Q25. When 100 V dc is applied across a LR circuit, A current of 1 amp flows in it. When 100 V ac is applied across the same circuit, the current drops to 0.5 A. The impedance and the inductive reactance are
(a) 200 Ω and 0.93 Ω
(b) 100 Ω and 0.93 Ω
(c) 200 Ω and 173 Ω **(d)** 100 Ω and 173 Ω

Q26. When an ac source of emf $E = E_0 \sin 100t$ is connected across a circuit, the current is $I = I_0 \sin(100t + \pi/4)$. If the circuit consists possibly only of RC or RL in series, find the relationship between the two elements.
(a) R= 1kΩ , C= 10 μF
(b) R= 1kΩ , C= 1 μF
(c) R= 1kΩ , L= 10 H
(d) R= 1kΩ , L= 1 H

Q27. The transformation ratio in the step-down transformer is
(a) one **(b)** greater than one
(c) less than one
(d) the ratio greater or less than one depends on the other factor

ASSERTION /REASON

For question numbers 28 to 31, two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.
a) Both A and R are true and R is the correct explanation of A
b) Both A and R are true but R is NOT the correct explanation of A
c) A is true but R is false
d) A is false and R is also false

Q28. Assertion- Faraday laws are consequence of conservation of energy
Reason- In a purely resistive AC circuit, the current lags (behind) the emf in phase

Q29. Assertion- Making and breaking of current in a coil produce no momentary current in the neighbouring coil of another circuit
Reason- Momentary current in the neighbouring coil of another circuit is an eddy current

Q30. Assertion- A variable capacitor is connected in series with a bulb through AC source if the capacitance of variable capacitor decreases, the brightness of bulb is reduced
Reason- The reactance of capacitor increases if capacitance is reduced

Q31. Assertion- When capacitive reactance is smaller than the inductive reactance in LCR circuit, emf leads the current
Reason- The phase angle is angle between alternating emf and alternating current of the circuit

CASE STUDY:

HELICAL MOTION OF A CHARGED PARTICLE IN A MAGNETIC FIELD

If velocity has a component along B, this component remains unchanged as the motion along the magnetic field will not be affected by the magnetic field. The motion in a plane perpendicular to magnetic field is a circular one, thereby producing a helical motion.

Q32. The radius of the charge particle, (when v is perpendicular to B) placed in a uniform magnetic field is given by
(a) R = mv / q B **(b)** R = q B / mv
(c) R = B q m / v **(d)** R = v q / m B

Q33. An electron, proton, He+ and Li++ are projected with the same velocity perpendicular to a uniform magnetic field. Which one will experience maximum magnetic force?
(a) Electron **(b)** Proton **(c)** He+ **(d)** Li++

Q34. The work done by the magnetic field on the charge particle moving perpendicular to a uniform magnetic field is
(a) Zero **(b)** q (v × B). S
(c) Maximum **(d)** qBS / v

Q35. The distance moved by a charged particle along the magnetic field in one rotation, when v has a component parallel to B is
(a) 2πv cosθ/qBm **(b)** 2πmv cosθ/qB
(c) qBm/2πv cosθ **(d)** Bq/2πm

These questions are meant for practice purpose only. Students are advised to check format, syllabus and marks for Board test papers with their teachers. Questions have been given by teachers and NIE is not responsible for them.

Logic, the key to solving computers

EXAMS Rfun

MOCK PAPER
SUBJECT: COMPUTER APPLICATIONS
CLASS: X
MARKS: 15

PAPER SET BY MANPREET KAUR JUDGE, AAVISHKAR ACADEMY, BENGULURU

SECTION-A

QUESTION 1

a) Which of the following can be omitted while using for loop? (5X1=5)
(i) Update statement
(ii) Initial value
(iii) Test expression
(iv) All of them
1. (i) & (ii) 2. (iv) & (i) 3. (iv) 4. (i)
Answer: 3

b) Which one out of these is an infinite loop?
1. for (i=2;i<10;a+-2)
2. for (i=0;i<10; a++)
3. i=2; do{ i++; }while(i < 20);
4. for (i=0; i<=10;i--)
Answer: 4

c) Complete the following statement. The do……while loop repeats a set of statements_____ even if the condition is false.
1. at least once **2.** twice
3. infinite times **4.** not even once
Answer: 1

d) See the syntax and name what type of loop it is?

```
a= 1;
while (a<10)
 {
 }
```

1. Infinite loop **2.** Empty loop
3. Finite loop
4. User controlled loop
Answer: 2

e) Read the following code segment properly and predict how many times the loop will be executed?

```
int a = 1, b = 2;
 while(++b < 6)
 a *= b;
System.out.println(a);
```

1. two times **2.** three times
3. four times **4.** five times
Answer: 2

SECTION-B

QUESTION 2

Define a class named movieMagic with the following description:

DATA MEMBERS	PURPOSE
int year	To store the year of release of a movie
String title	To store the title of the movie
float rating	To store the popularity rating of the movie (minimum rating=0.0 and maximum rating=5.0)

MEMBER METHODS	PURPOSE
movieMagic()	Default constructor to initialize numeric data members to 0 and String data member to "".
void accept()	To input and store year, title and rating
void display()	To display the title of the movie and a message based on the rating as per the table given below

RATING	MESSAGE TO BE DISPLAYED
0.0 to 2.0	Flop
2.1 to 3.4	Semi-Hit
3.5 to 4.4	Hit
4.5 to 5.0	Super-Hit

Write a main method to create an object of the class and call the above member methods.
Answer **(6 X 1 = 6)**

```
import java.util.Scanner;
public class movieMagic
{
  private int year;
  private String title;
  private float rating;

  public (a)_____() {
    year = 0;
    title = "";
    rating = (b) ____;
  }
  public (c) ____ accept() {
     Scanner in = new Scanner(System.in);
     System.out.print("Enter Title of Movie: ");
     title = (d) _____;
     System.out.print("Enter Year of Movie: ");
     year = in.nextInt();
     System.out.print("Enter Rating of Movie: ");
     rating = in.nextFloat();
  }
  public void display() {
     String message = "Invalid Rating";
     if (rating (e) _____)
       message = "Flop";
     else if (rating <= 3.4)
       message = "Semi-Hit";
     else if (rating <= 4.4)
       message = "Hit";
     else if (rating <= 5.0)
       message = (f) _____;

     System.out.println(title);
     System.out.println(message);
  }

     public static void main(String args[]) {
     movieMagic obj = new movieMagic();
     obj.accept();
     obj.display();
  }
}
```

a) **1.** MovieMagic **2.** moviemagic **3.** movieMagic
Answer: 3.

b) **1.**"0.0" **2.** 0.0 **3.** 0
Answer: 2

c) 1. void **2.** Void **3.** int
Answer: 1.

d) **1.** sc.nextLine(); **2.** in.nextLine(); **3.** in.next();
Answer: 2

e) **1.** == 2.0 **2.** >= 2.0 **3.** <= 2.0
Answer: 3

f) **1.** "Super-Hit" **2.** 'Super-Hit' **3.** "SuperHit"

Answer: 1

QUESTION 3

Read the paragraph given below and answer the questions given below:

Case study 1

A block of statements which gets executed repeatedly unless the required work gets done is called a loop or an iterative construct. Based on the flow of control these constructs can be divided into two categories - Entry and Exit controlled loop. Entry control loop checks the condition in the beginning and exit control loop at the end or exit point of the loop. For and while loops are entry controlled loops whereas do…while is an exit controlled loop. Writing a loop requires initialization condition where we initialize the variable in use. It marks the start of a loop generally. An already declared variable can be used or a variable can be declared, local to loop only.

Testing Condition is used for testing the exit condition for a loop. It must return a boolean value. It can be entry or exit control loop. Statement execution happens once the condition is evaluated to true, the statements in the loop body are executed according to these conditions. Increment or Decrement is used for updating the variable for next iteration. Loop is terminated when the condition becomes false marking the end of its life cycle.

a) A testing condition returns a ___ value. (4 X 1 = 4)
1. true **2.** boolean **3.** false
Answer : 2

b) The loop executes only if ____
1. The testing condition is true.
2. The testing condition is false.
3. The testing condition is incremented.
Answer : 1

c) How many types of loops are there?
1. Three
2. Two
3. Four
Answer : 2

d) What does the Initializing variable decide?
1. Test condition of the loop
2. Ending of the loop
3. Beginning of the loop
Answer : 3

KEY TIPS: While attempting questions in Section A - thorough knowledge of theoretical concepts will help. Questions like predict the output or Q1 e) given above should always be answered after giving a dry run and not by mental calculations or guesswork.

While attempting Section- B the students need to understand the logic of the program given in the paper, analyze, work with the logic and then attempt to complete it. Understanding the concepts is of utmost importance as then only the students will be able to comprehend the logic. It's also equally important to mention that writing and practically solving the program questions is of utmost importance, as that is a sure shot method of getting the right logic and syntax and making you confident to face your exams.

For case study questions reading the passage, comprehending it and then choosing the most appropriate answer is really very important.

Age old proverb "Practice makes a man perfect" still holds true and there is no alternative to hard work.

These questions are meant for practice purpose only. Students are advised to check format, syllabus and marks for Board test papers with their teachers. Questions have been given by teachers and NIE is not responsible for them.

CLICK HERE: PAGE 3 AND 4

Upcoming Principals' Webinar to discuss coding, STEM education, myths and facts

The Times of India Student Edition (NIE) in association with iRobokid once again brings the best for schools across the nation in the form of the upcoming Principals' Webinar

Pandemics may come and go, education does not stop for anything. In this spirit — The Times of India Student Edition (NIE) in association with iRobokid has once again brought the best for schools across the nation. This time for the Principals' Seminar we have invited over 50 school principals from across the city it brought to you over the internet. Garnering the strengths of Artificial Intelligence and smartness in and beyond classrooms and connecting the dots with education we bring to you a unique session.

The upcoming Principals' Webinar will be conducted on December 10, from 5 pm to 6.30 pm. The topic for this webinar is: **Coding & STEM education, Myths and Facts.** The webinar aims at debunking the myths around STEM and discussing the curriculum designed for children to explore Science and Technology, in an energetic, stimulating and challenging environment and how it can be available and accessible to all.

This eminent panel will discuss the aforementioned topic and present its views while addressing queries put forth by viewers as well. The webinar promises to bring together the city's best educationists and leaders in this field.

Times NIE Principals' Webinar

DATE: December 10

TIME: 5 pm to 6.30 pm

TOPIC: Coding & STEM education, Myths & Facts

PANELISTS: Prof. Ganesh Ramakrishnan (Institute Chair Professor at the Department of Computer Science and Engineering, IIT Bombay) and Vishal Shah (CEO and Co-founder of iRobokid)

AWARDING EXCELLENCE

The Bombay Cambridge School - Andheri West has been honored by Navbharat Times and awarded for Excellence in use of 'blended learning' during the challenging times of pandemic.

The award was received by Poonam Arora, principal from the Governor of Maharashtra, Bhagat Singh Koshiyari.

The school authorities are thankful to all teachers, parents and school staff for their unending support and hard work.

Tiny tots hone culinary skills

Preschoolers are fussy eaters, and bringing them into the kitchen to cook can help get them to open up to new tastes. Kids learn by exploring with their senses and the kitchen is an ideal place to do that. Rahul International School Mira Road, Patankar Park (CBSE)had conducted Chef on Toes activity for Pre- primary learners on 22nd November 2021.

Learners gathered hands-on experience of 'fire less cooking' they enthusiastically participated in the activity. They prepared delicious biscuits toppings garnished with the special ingredients of 'love and learning'!

The aim of the activity was to provide a platform for students to showcase their talent and explore new areas of interest and to create awareness about the nutritional value of food cooked without flame, the necessity and advantages of healthy eating and to encourage students to stay away from the junk food.

Junior chef Competition - St. Joseph's High School, Juhu

Celebrating Navy Day

We can see the dawn openly and we can hear the stream water sound calmly; as we have our heroes. We have brave men who protect our country. Men in white are the brave hearts we are surrounded by.'

Navy Day

Navy Day in India is celebrated on 4th December every year to recognise the achievements and role of the Indian Navy to the country. This year Navy Children School, Colaba celebrated the 50th Navy day.

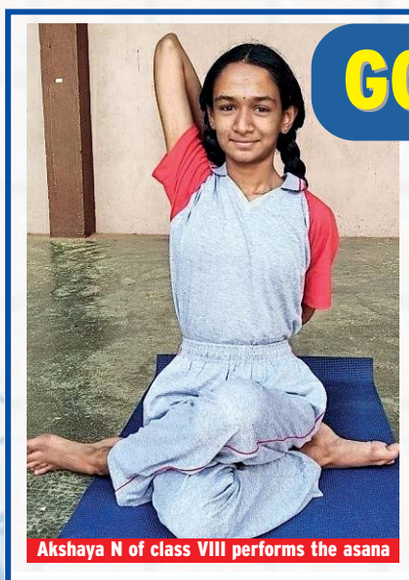
4th December was chosen — as on that day in 1971, during Operation Trident, the Indian Navy sank four Pakistani vessels including PNS Khaibar, killing hundreds of Pakistani Navy personnel.

Indian Navy is led by the president of India as the Commander in Chief. And president CNS is Admiral R Harikumar. The Maratha Emperor Chhatrapati Shivaji Maharaj is considered as the Father of the Indian Navy.

The children of class 1 and class 2 celebrated this day with enthusiasm showing their gratitude by delivering a speech, singing songs, reciting poems and playing quizzes. The children participated by sharing things they learnt with their fellow classmates. This was a great way of gaining knowledge from one another.

'Freedom in mind and words, pride in our hearts, memories in our souls, let's salute the nation on the Navy Day!'

GOMUKHASANA



Akshaya N of class VIII performs the asana

A Sanskrit word, Gomukhasana literally translates into a cow face posture (go - cow, mukha - face, asana - pose). It is a seated yoga posture.

- Now, as you exhale, slowly release your right arm first and then the left arm.
- Uncross your legs and relax.
- Repeat the above steps for other leg and other arm.

INSTRUCTIONS:

- Sit on the yoga mat with your back straight and legs extended in front of you. Put your feet together and place your palms next to your hips.
- Bend your right leg and place the right foot under your left buttock.
- Stack your left knee over your right knee.
- Raise the right arm above your head and bend the elbow. Simultaneously, bring the left arm between scapula bone (behind your back) and interlock both hands.
- Take deep ujjayi breaths and stay in this position for 15 - 30 seconds.

BENEFITS OF GOMUKHASANA

- Cures sciatica with regular practice
- Helps in high blood-pressure
- Reproductive organs are toned and massaged with regular practice
- Helps to cure posture deformities
- Cures stiff shoulders
- Elongates spine
- Reduces stress and anxiety
- Strengthens back muscles
- Stimulates kidneys
- Strengthens muscles of ankles, hips, thighs, shoulders, triceps, inner armpits and chest

PRECAUTIONS:

- People suffering from any of the following conditions should avoid practicing this asana:

Shoulder pain or injury, pain in any of the key body parts, soft tissue injury in leg, muscle tear or pain in thighs, bleeding piles, spondylitis, severe sciatic nerve issues.

- Those who ae pregnant must completely avoid this pose, as the crossing of the legs at the thighs may bring pressure on the lower abdomen which may not be safe.

Yoga facilitator Maruthi N, MES Kishore Kendra Public School, Vidyaranyapura, Bengaluru

Yoga should be practiced under the supervision of Yoga Guru. The views expressed in the above article are those of the author and the newspaper takes no responsibility for it.

Children's Day celebration

Students of Podar International School (Cambridge International) Kalyan, celebrated Children's Day with great vigor and enthusiasm recently. Teachers gave various performances for the students in order to exhibit their love and affection for them. Various activities and events were organized and performed.

In the beginning a small introduction was given be Madhavi miss regarding the importance of children's day and why it is celebrated. Next Sashi miss narrated a very beautiful poem in Hindi. It was a motivational poem where the message was conveyed to all the students that they should not be afraid of any situation. In difficult times also they not lose their faith on themselves. Later on, Renuka miss asked few Riddles to all the students. Students were really eager to answer it. The program was then followed with the price distribution ceremony where the students were felicitated with certificates and medals for Spell Bee, Olympiad exams etc. Yet another programme, which made the children, sit up and enjoy, was the beautifully choreographed dance show by the teachers. This programme was the heart of the entire celebration. Everyone enjoyed it a lot.

Finally, the programme ended with a small speech by Principal sir Mr. Sanjay Nandi. He thanked all the parents, PTA members, teachers, all supporting staff and dear students for their presence and support. All the students were asked to fill the feedback form and rate the programme. The students were overwhelmed and enjoyed the day.

Her simplicity, courage motivate me to help others

Identifying our idols who inspire us is important. Incorporating the values and ideals from their life in our own is more so. .

The most Inspiring Icon for me is Infosys founder, renowned author, social worker and the chairperson of Infosys Foundation Sudha Murty. In spite of being a celebrity, simplicity is her hallmark. She is down to earth, despite her tremendous achievements. She teaches us that whatever we achieve, social welfare should be the most important aim of our life. Sudha Murty has taught us to be simple, to be genuine, to never stop learning and most importantly to never give up. I would surely follow these golden principles in my life to make it a wonderful one.

I have learnt a lot from her, especially from her books which I have read. Her famous book, 'A Three Thousand Stitches', is my most favourite one. The book is named after a present given to her as a gesture of help and gratitude. It's the simple acts of courage which touch the lives of innumerable people.

This wonderful is very amazing, motivating us to do something which will help many people.

She is a continuous learner and age should never be a barrier for learning. She has shown us that we should never give up whatsoever the situation might be. I hope I can follow in her footsteps.

INSPIRING ICONS
SUDHA MURTY

Anagha B Poojari, class IX, MES Kishore Kendra Public School, Bengaluru

SPINNERS WREAK HAVOC

Spin-bowling all-rounder Jayant Yadav did most of the damage on the fourth morning, picking up 4-49 _ his career-best figures _ to cut through New Zealand's middle and lower order at the sun-bathed ground overlooking the Arabian Sea

Photo: AFP

India bag series win over NZealand with 372-run victory in second Test

Photo: PTI

India's spinners wasted little time in removing New Zealand's remaining batters on Monday as the hosts sealed a record 372-run victory in the second test at the Wankhede Stadium to secure the series 1-0. It was the biggest margin of victory by runs for India in a home match, eclipsing their 337-run win against South Africa in a Delhi test in 2015. With the series victory, India also avenged their defeat to New Zealand in the final of the inaugural World Test Championship in Southampton in June.

Photo: ANI

> I enjoyed playing here at Wankhede honestly. Every day there was something new and I could challenge both edges. I would like to go to South Africa and win a series there. We haven't done that before, and hopefully we can do it this time.
> **RAVICHANDRAN ASHWIN**

HARD FOUGHT WIN

Rahul Dravid, India's newly-appointed head coach, said the score did not reflect how hard India had to work for the series win, after the first test in Kanpur ended in a draw. "I know this result looks a bit one-sided but right through the series we've been made to work hard," said Dravid. "There have been phases of the game where we've been behind and had to fight back. Credit to the team for pulling themselves out of some difficult positions."

Spin-bowling all-rounder Jayant Yadav did most of the damage on the fourth morning, picking up 4-49 _ his career-best figures _ to cut through New Zealand's middle and lower order at the sun-bathed ground overlooking the Arabian Sea.

With just a few hundred fans present in the stands to cheer the team on, Ravichandran Ashwin took the final wicket to finish with 4-34 as New Zealand were all out for 167 in their second innings, chasing 540 for victory. The wily off-spinner took eight in the match and was adjudged Player of the Series for his 14 wickets in the series.

Ashwin is the world's leading wicket-taker this year with 52.

CLINICAL VICTORY

Opening batter Mayank Agarwal, only playing because of injuries and others being rested, picked up the Player of the Match award for his 150 in the first innings and 62 in the second in Mumbai.

It was also a happy return to the side for captain Virat Kohli, who was rested for the three-match Twenty20 series and the drawn first test in Kanpur. "To come back with a win again it's a great feeling as a team, and for me returning as captain as well," he said. "It was just a clinical performance, something we've seen from our team time and again. "You want individuals to step up and I think in this match they did."

New Zealand's dogged batters had denied India victory in the first test after their last pair hung on for 52 balls in a thrilling final session. But they were unable to show the same kind of resistance on Monday with India needing just 43 minutes in the first session to wrap up the win after New Zealand had resumed on 140-5.

Tom Latham, leading the side in place of the injured Kane Williamson, said the tourists were fighting an uphill battle after being bundled out for 62 in their first innings in reply to India's 325. "Disappointing performance, we always knew it was going to be tough coming over to these parts of the world. Getting bowled out for 60 puts you right behind the eight ball," Latham said. "Credit certainly has to go to India, they know these conditions very well and played a great game." AGENCIES

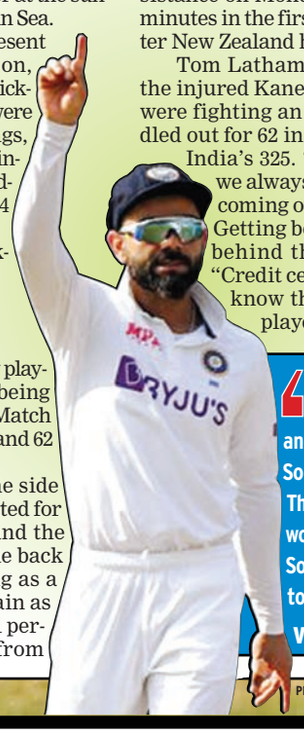


Photo: ANI

> We discussed our performance in the Kanpur test. There was more bounce here and the fast bowlers got assistance as well. So it gave us a better chance to win this test. The aim is to take Indian cricket forward, working with the new team management. South Africa is a good challenge and we want to win there as a team.
> **VIRAT KOHLI**

MEDVEDEV ENDS 15-YEAR WAIT

Leads Russia to Davis Cup victory beating Serbia

Photo: AFP

(From L) Russia's Davis Cup captain Shamil Tarpischev, and teammates Andrey Rublev, Daniil Medvedev, Karen Khachanov, Aslan Karatsev and Evgeny Donskoy pose for pictures with the trophy after winning the Davis Cup tennis tournament at the Madrid arena in Madrid

Russia's 15-year wait for a Davis Cup title ended after another clutch performance from Daniil Medvedev. Medvedev capped his amazing year with a 7-6 (7), 6-2 win over Marin Cilic in the second singles match to give Russia an insurmountable 2-0 lead over Croatia and its first Davis Cup title since 2006. "It feels amazing," Medvedev said. "But I'm more happy for the team than for myself. We have an amazing team, amazing atmosphere. I'm happy to be part of it and bring the points we need."

It was the fifth consecutive straight-set victory in the Davis Cup for the No. 2 Medvedev, who three months ago defeated Novak Djokovic to win the U.S. Open for his first Grand Slam title. "Pretty amazing two weeks," Medvedev said. "It's never easy to come here at the end of the season but they were some of the best weeks of my career."

After a tight first set, Medvedev broke serve twice in the second against the 30th-ranked Cilic to comfortably clinch the victory. "It was a tough match all day long," the 25-year-old Medvedev said. "The tiebreak is a matter of a few points. I made a double-fault on the set point that was probably a big mistake, but I'm happy that today it was enough to win. It was a really tough match."

Tiebreaker for Rublev

Andrey Rublev earlier had beaten Borna Gojo in straight sets to put the Russians ahead at the Madrid Arena. Russia's other Davis Cup title was in 2002.

> What I love about these kinds of tournaments, when we play as a country, is the bond we create as a team. We do everything together and it creates this will to win for your friends, for the team.
> **ANDREY RUBLEV OF RUSSIA**

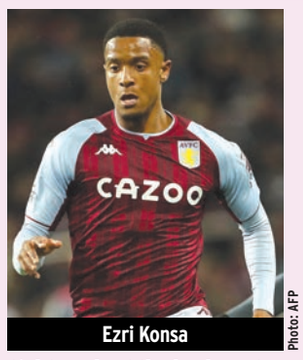
Rublev had converted on his first match point to clinch a 6-4, 7-6 (5) win over Gojo, who arrived at the Davis Cup Finals as the 279th-ranked player but had won all his three matches. It was the third consecutive victory for the fifth-ranked Rublev after a loss against Spain's Feliciano López in the group stage.

The Russian team is officially being called RTF (Russian Tennis Federation) in the competition amid its ongoing doping suspension in international sport.

New venue next year

The International Tennis Federation and the Kosmos Tennis group that is behind the competition said next year four cities will host the group stages, with another venue _ likely Abu Dhabi _ hosting the knockout rounds. Madrid was the sole host over a seven-day period in 2019. This year, Innsbruck in Austria and Turin in Italy were added as hosts over a 11-day period. AP

KONSA ON SONG AS VILLA BEAT LEICESTER 2-1



Ezri Konsa

Photo: AFP

Defender Ezri Konsa scored twice as Aston Villa came back from a goal down to beat Leicester City 2-1, rising above them to 10th spot in the Premier League table on goal difference on Sunday after a pulsating encounter.

Harvey Barnes squeezed the ball through Konsa's legs to open the scoring in the 14th minute, but Konsa got the last touch on Emiliano Buendia's goal-bound header to put his side level again three minutes later.

Villa thought they had taken the lead in first-half stoppage time when Jacob Ramsey fired home in a tussle with Kasper Schmeichel, but the goal was disallowed as VAR review revealed the keeper to have been in control of the ball.

Undeterred, Konsa got the lead nine minutes into the second half as he headed home John McGinn's corner from a tight angle at the back post.

The goal was the 10th that Leicester have conceded from a set piece this season, excluding penalties.

Villa coach Gerrard said efforts to fire up side at half-time paid dividends. "Leicester started really well. We were too passive. When we made passes there were loads of sloppy turnovers. We gave the players some home truths. The reaction was exactly what we wanted," he said. AGENCIES

QUIZ TIME!

Q1. Which of the following sprinter has a world record of completing 200m in 19.19 seconds?
a) Usain Bolt
b) Noal Lyles
c) Christine Arron
d) Carmelita Jeter

Q2. In which year was the first ODI World Cup match between India and Australia played?
a) 1981
b) 1983
c) 1985
d) 1987

Q3. Sharath Kamal, Sathiyan, Sutirtha Mukherjee, who qualified for the Olympics, play which sport?
a) Table Tennis
b) Badminton
c) Wrestling
d) Fencing

Q4. Which of the following players is supposed to be standing still, till the ball is bowled by the bowler as per the Laws of Cricket code?
a) Bowler
b) Batsman
c) Fielder
d) Wicket-keeper

Q5. In 2011, David Warner made his Test debut against which country?
a) South Africa b) India
c) England d) New Zealand

David Warner

Photo: GETTY IMAGES

Q6. Margaret Court has won an all-time record of Grand Slam singles titles. How many did she win?
a) 23 b) 24 c) 25 d) 26

Q7. Who has been named as 'India's Most Valuable Test Player of the 21st Century' by Wisden?
a) Mahendra Singh Dhoni
b) Virat Kohli
c) Ravindra Jadeja
d) R Ashwin

Q8. Which famous sportsperson's birthday is celebrated as National Sports Day every year in India?
a) Major Dhyan Chand Singh
b) PT Usha
c) Sachin Tendulkar
d) Milkha Singh

Q9. Which player won the women's single title at the All England Badminton Championships 2021 ?
a) Nozomi Okuhara
b) Akane Yamaguchi
c) Yuta Watanabe
d) Arisa Higashino

ANSWERS: 1) a 2) b 3) a 4) d 5) d 6) b 7) c 8) a 9) a