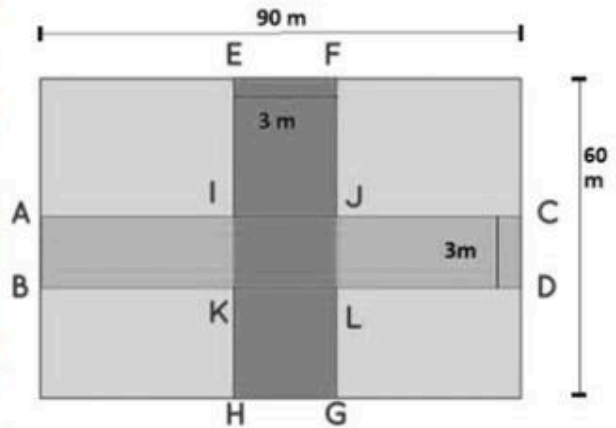


**KVS RO BHOPAL CBT CLASS 7  
ANSWER AND FEEDBACK  
NOVEMBER 2024**

**MATHEMATICS**

In Danish Nagar colony, two cross roads, each of width 3 m, run at right angles through the centre of a rectangular park of length 90 m and breadth 60 m and parallel to its sides. Anika is a student of Class VII residing in Danish Nagar colony. One day he has taken all the measurements and drawn a rough diagram of two cross roads as shown in below figure: Answer the following questions based on the above information



On the basis of above information answer the question from **Q1 to Q3**

What is the Area of the rectangle ABCD?

- (a) 170 sq m
- (b) 370 sq m
- (c) 270 sq m
- (d) 180 sq m

**CORRECT ANSWER-** (c) 270 sq m **EXPLANATION-**use the formula of area of rectangle

**Q2.**What is the Area of the rectangle EFGH?

- (a) 270 sq m
- (b) 350 sq m
- (c) 270 sq m
- (d) 180 sq m

**CORRECT ANSWER-**(d) 180 sq m **EXPLANATION-**use formula of area of rectangle

**Q3.**What is the Area of Road?

- (a) 441 sq m
- (b) 414 sq m
- (c) 5400 sq m
- (d) 540 sq m

**CORRECT ANSWER-**(a) 441 sq m **EXPLANATION-** subtract area of IJKL from sum of area of two roads.

**Q4.The area of parallelogram whose base 6 cm & altitude 7 cm is**

- (a) 42 cm<sup>2</sup>                      (b) 42 cm                      (c) 21 cm<sup>2</sup>                      (d) 21 cm

**CORRECT ANSWER-**(a) 42 cm<sup>2</sup> **EXPLANATION-**use formula area of parallelogram

**Q5.Area of triangle whose base is 15 cm and corresponding altitude is 6 cm will be** (a) 45 cm<sup>2</sup>                      (b) 90 cm<sup>2</sup>

- (c) 45 cm                      (d) 90 cm

**CORRECT ANSWER-**(a) 45 cm<sup>2</sup> **EXPLANATION-**area = $(b \cdot h) / 2$

**Q6.What will be the area of circular button of radius 7 cm**

- (a) 154 cm<sup>2</sup>                      (b) 49 cm<sup>2</sup>  
(c) 154 cm<sup>2</sup>                      (d) 3.14 x 7 cm<sup>2</sup>

**CORRECT ANSWER-**(c) 154 cm<sup>2</sup> **EXPLANATION-**use area of circle

**Q7.The perimeter of circle is its**

- (a) area                      (b) circumference  
(c) radius                      (d) diameter

**CORRECT ANSWER-** (b) circumference

**Q8.π (pi) is**

- (a) ratio of circumference to diameter                      (b) 21/17

(c) diameter to circumference

(d) 3.41

**CORRECT ANSWER-**  
of pie

(c) diameter to circumference

**EXPLANATION-value**

**Q9. One hectare is equal to**

(a) 100 m<sup>2</sup>

(b) 1000 m<sup>2</sup>

(c) 10,000 m<sup>2</sup>

(d) 10,000 m<sup>2</sup>

**CORRECT ANSWER-**

(c) 10,000 m<sup>2</sup> **EXPLANATION-100\*100**

**Q10. If the perimeter of a semi-circular protractor is 36 cm, find the diameter.**

(a) 14 cm

(b) 16 cm

(c) 18 cm

(d) 12 cm

**CORRECT ANSWER** (a) 14 cm **EXPLANATION-use**  $\pi r + d$

**SUBJECT-SCIENCE**

**Q.11-Plants have groups of a specialized cells which are pipeline. They transport substances as food and hormones .Which of the following terms qualified for the feature mentioned above ?**

A) xylem tissue

B) vascular tissue

C) root hairs

D) phloem tissue

**CORRECT ANSWER-D) phloem tissue**

**EXPLANATION-**In plants phloem tissue transports food in all the directions

**Q.12-In a tall tree which force is responsible for pulling water and minerals from the soil?**

A) gravitational force

B) transportation force

C) suction force

D) conduction force

**CORRECT ANSWER-C) suction force**

**EXPLANATION** -roots absorb water and minerals from the soil continuously. Evaporation of water from the leaves provides a suction force which causes the water to move upwards

**Q.13-Paheli rooted a rose plant from the soil .Most of the root tips with root hairs got left behind in the soil .She planted it in a pot with new soil and watered it regularly. Now find out the correct observation**

A) the plant will grow

B) the plant will die

C) the plant will grow and will be very tall many flowers.

D) the plant will grow

**Q.14- In plants xylem and phloem comprise the**

A) reproductive tissue

B) vascular tissue

C) protective tissue

D) food storing tissue

I) A and B both

II) B and D only

III) B only

IV) D only

**CORRECT ANSWER-** III) B only **EXPLANATION**—In plants xylem and phloem comprise the vascular tissue. Vascular tissues transport water and minerals in plants

**Q.15-The excess of water absorbed by plants by their roots gets**

**evaporated through the process of**

A) Transpiration

B) absorption

C) excretion

D)

elimination

**CORRECT ANSWER-A) Transpiration** **EXPLANATION**—Transpiration removes lots of water from a plant in the form of water vapor. Water is absorbed by roots and transported as a liquid to the leaves by xylem . In the leaves due to transpiration water is lost.

**Q.16- A student performed an experiment in which a potted plant was kept in a bell jar. After some time the student observed some water droplets inside the jar. Which plant tissue might have released this water drops**

A) xylem B) phloem C) root hair D) epidermis

**CORRECT ANSWER-A) xylem** EXPLANATION—In plants, water is absorbed by roots and it is transported through xylem

**Q.17- An experiment was conducted by a student to determine the role of soil water in the transportation of materials in plants. Plant A was watered daily for a month. However plant B was not watered for a month. It was observed by the students that the plant that was watered daily was healthy and fresh, while plant B was dead. What could be the reason for observing this difference?**

- A) Adding water into the soil aids transportation of materials in plants
- B) Adding water into the soil introduces important nutrients to the soil.
- C) Adding water into the soil reduces the water loss in plants during transportation
- D) Adding water into the soil increases the relative humidity of the atmosphere that allows the plant to remain cool.

**CORRECT ANSWER-A)** Adding water into the soil aids transportation of materials in plants

**EXPLANATION**—quantity of water is more in soil

**Q.18- The generation of suction pull in plants plays an important role in moving minerals and water from the roots of the plants to all parts. The generation of**

**suction pull takes place due to the evaporation of water from the leaves. Which of the factors will favor the rapid transport of material in plants ?**

A. Absence of air currents

B. Increased relative humidity

C. Less absorption of water from the soil.

D. Increase in environmental temperature

**CORRECT ANSWER\_** D. Increase in environmental temperature

**EXPLANATION** - Because suction pull takes place due to evaporation , the rise in environmental temperature will increase suction pull

**Q.19- What is the name of the force which pulls the water absorbed by the roots from the soil to reach the stem and leaves ?**

(A). Respiration (B). Transpiration (C.) Excretion (D) Food preparation

**CORRECT ANSWER-** (B). Transpiration

**EXPLANATION-** Transpiration occurring through stomata is the force which pulls the water absorbed by the roots

**Q.20- During transpiration water is lost from the plants in the form of**

**:-**

(A) water vapor (B ) liquid (C) Hydrogen and oxygen (D ) Steam

**CORRECT ANSWER-(A)** water vapor

**EXPLANATION** – Due to environmental temperature the water is lost in the form of water vapors

### SOCIAL STUDIES

**Q21.** Shiva, a student of class VII, got to know about the policy on education which he did not find good for students. What are the ways in which he can show concern to the government?

- A) Start a strike                      B) Organize a procession
- C) Writing letters to education minister      D) Shouting slogans

**Answer:-** C) Writing letters to education minister

**Explanation:-** As a student of class VII, he can show concern to the government by Writing letters to education minister



**Q22.** Identify the correct option that represents the following information.

I. It covers small issues which the media will not be interested to cover.

II. It is also made in documentary films by cheap cameras.

III. It is generally represented in regional language.

A) Mass media

B) Print media

C) Social media

D) Local media

**Answer:- D) Local Media**

**Explanation:-** Others make documentary films with fairly cheap and easily available video cameras on real-life

conditions faced by different poor communities, and, at times, have even given the poor these video cameras to make films on their own lives.

**Q23.** Which among the following was invented by John L Baird ?

- A) Radio
- B) Electronic typewriter
- C) Television
- D) Cameras

**Answer:-** C) Television

**Explanation:-** Television was invented by John L Baird.

**Q24.** Which has brought the world closer to us?

- A) Television
- B) Tape recorder
- C) Typewriter
- D) Photo copy machine

**Answer:-** A) Television

**Explanation:-** Television has brought the world closer to us by giving us entertainment, informations.

**Q25.** TV studio in which newsreader sits consists of

I. lights    II. cameras

III. transmission satellites

A) Only I & II                      B) I, II, III

C) Only II & III                    D) Only I & III

**Answer:- B -I, II, III**

**Explanation:-** TV studio in which the newsreader sits consists of lights, cameras, transmission satellites.

**Q26.** Which is the main source of income of media?

A) Advertisements                      B) Articles

C) General news                      D) Sensitive news

**Answer:- A) Advertisement<sub>s</sub>**

**Explanation:-** Advertisements are the main source of income of the media.

**Read the passage given below and answer the following questions**

***Some of them like Kabir and Baba Guru Nanak rejected all orthodox religions. Other like Tulsidas and Surdas accepted existing beliefs and practices but wanted to make these accessible to all. Tulsidas conceived of God in the form of Rama. Tulsidas's composition, the Ramcharitmanas, written in Awadhi (a language used in Eastern Uttar Pradesh), is important both as an expression of his devotion and as a literary work. Surdas was an ardent devotee of Krishna. His compositions, compiled in the Sursagar, Sur Saravali and Sahitya Lahari, express his devotion. Also contemporary was Shankaradeva of Assam who emphasized devotion to Vishnu, and composed poems and plays in Assamese.***

**Q27.** Which composition, written in Awadhi, is considered important as an expression of devotion and as a literary work?

A) Ramcharitmanas    B) Sahitya Lahari

C) Sursagar        D) Sur Saravali

**Answer:- A) Ramcharitmanas**

**Explanation** The Ramcharitmanas, written in Awadhi (a language used in Eastern Uttar Pradesh), is important both as an expression of his devotion and as a literary work.

**Q28.** Which work is not associated with expressing the devotion of Surdas?

A) Sahitya Lahiri        B) Sursagar

C) Ramcharitmanas    D) Surasaravali

**Answer:- C) Ramcharitmanas**

**Explanation:-** Surdas was an ardent devotee of Krishna. His compositions, compiled in the Sursagara, Surasaravali and Sahitya Lahari, express his devotion.

**Q29.** Which poet from Assam emphasised devotion to Vishnu?

A) Kabir

B) Tulsidas

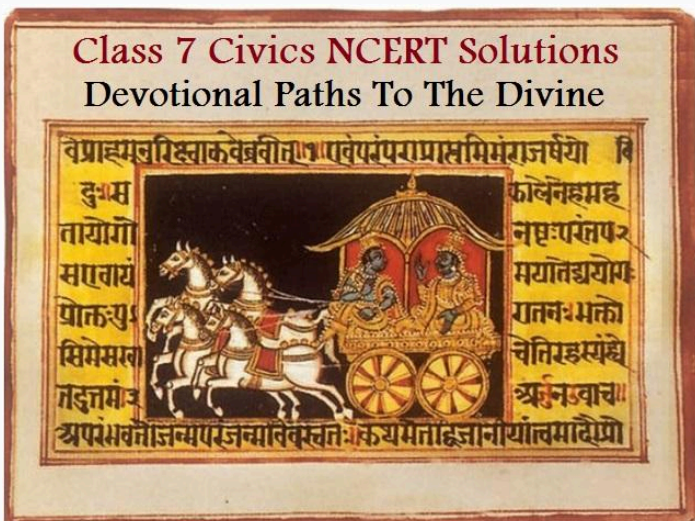
C) Sankaradeva

D) Guru Nanak

**Answer:- C) Sankaradeva**

**Explanation:-** Also contemporary was Shankaradeva of Assam who emphasized devotion of Vishnu, and composed poems and plays in Assamese.

**Q30.** The picture shown below is a part of which religious book?



A) Ramcharitmanas                      B) Bhagavadgita

C) Rigveda                                      D) Ramayana

**Answer:- B) Bhagavad Gita**

**Explanation:-** Fig. 1 A page from a south Indian manuscript of the Bhagavad Gita. In this picture, Shri Krishna is telling Arjuna about true knowledge.

**Subject : English**

**Q31. Why does Maya call her brother “Seven” instead of Nishad ?**

(A) Because he weighs seven kgs

(B) Because it is the seventh note of music

(C) Because he has seven friends

(D) Because he loves music

**ANSWER (B) Because Nishad is the seventh note of music**

**Explanation ; Maya shares a specific bond with her brother . It shows her intelligence to associate things with her imagination**

**Q32.What quality of Maya is demonstrated when she is trying to investigate Mr. Nath's life and his background?**

(A)Caring and loving

(B)Sensible

(C)Curious but prejudiced

(D)Kind and loving

**ANSWER (C)Curious but prejudiced**

**Explanation ; Maya does not give any heed to Nishad's observation . She has her own opinion.**

**Q33.What makes Mr. Nath a suspicious character?**

(A)His dressing up sense

(B)His physical appearance



(C)His simplicity

(D)His introvert nature and lonely life

**ANSWER (D) His introvert nature and lonely life**

**Explanation ;He is a loner, doesn't want to have social relation**

**Q34.When did the poet take the notice of the fan?**

(A)when it gave good air (B)when it gave unpleasant sound

(C)when it became silent (D)when it was replaced

**ANSWER (B )when it gave unpleasant sound**

**Explanation ;-The fan created unpleasant sound which caught the child's attention**

**Q35.What was wrong with the fan?**

(A)It's blades were broken (B) It's motor was old and out of order

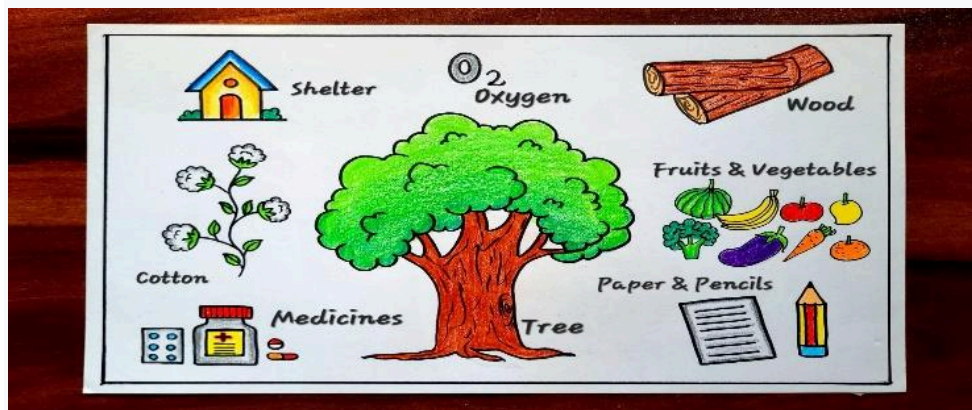
(C) It motor was old and needed oiling (D) It's coil was damaged

**ANSWER (C) It's motor was old and needed oiling**

**Explanation;-As the old electrical things become rough / overused they need lubrication**

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

Trees are one of the most vital components of our ecosystem providing numerous benefits to both the environment and human



society. They

absorb carbon dioxide, produce oxygen and support biodiversity by serving as habitats for various species. Trees also help in soil conservation and mitigate climate change.

**Q36. What is the primary reason trees are considered essential for life?**

- (A) To provide shade and aesthetic beauty
- (B) To support biodiversity and combat climate change
- (C) To produce oxygen and absorb carbon dioxide
- (D) To stop soil erosion

**ANSWER (C) To produce oxygen and absorb carbon dioxide**

**Explanation : Trees have many benefits but ability to produce oxygen and absorb carbon dioxide is their most critical function**

**Q37. What is the central theme of the paragraph?**

- (A) The economic importance of trees
- (B) Role of trees in maintaining biodiversity
- (C) Role of trees in maintaining a healthy ecosystem

(D)The aesthetic value of trees

**ANSWER (C )Role of trees in maintaining a healthy ecosystem**

**Explanation:-The paragraph lays emphasis upon multifold benefits of trees**

**Q38.Which of the following is an indirect benefit of trees for human society?**

(A)Support for biodiversity (B)Reversal of climate change

(C)Improvement of air quality (D)Creation of job opportunity

**ANSWER; (D)Creation of job opportunity**

**Explanation:- Provides opportunities to carpenters, pharma companies, local people who collect herb and wood etc.**



