

## SUBJECT : MATHEMATICS

Time : 3 hrs.

M.M. : 80

## General Instructions :

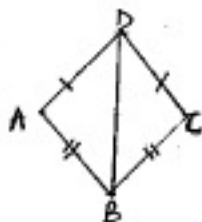
- (i) All questions are compulsory.
- (ii) Read all questions very carefully.
- (iii) Questions 1 to 10 carry 1 mark each.
- (iv) Questions 11 to 18 carry 2 marks each.
- (v) Questions 19 to 28 carry 3 marks each.
- (vi) Questions 29 to 34 carry 4 marks each.

Q1. Find the value of  $(6^\circ + 3^\circ) + (6^\circ \times 3^\circ)$ .

Q2. Check whether the value given in the bracket is the solution to the given equation or not.

$$x - 7 = 5 \quad (x = 13)$$

Q3. How many diagonals can be drawn from a vertex in a polygon having 8 sides?

Q4. If  $\triangle ABD$  and  $\triangle CBD$  are congruent, name the additional pair of corresponding parts. What criterion did you use?

Q5. When a die is thrown, what is the probability of getting an even number?

Q6. Find the ratio of 3km to 300m.

Q7. Which is greater :  $2^3$  or  $3^2$ ?Q8. Convert  $\frac{4}{5}$  into percent.Q9. Write the algebraic expression for the following statement.  
The sum of numbers 'a' and 'b' subtracted from their product.

Q10. Find 10% of 640.

Q11. Identify the terms and factors in the expression given below :

$$6x^2 - 7xyz$$

(1)

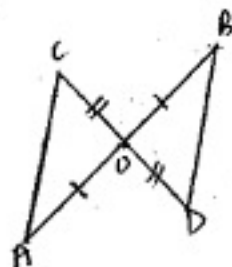
Q12. The weights of six students (in kg) are given below 31, 32, 25, 24, 26 and 30. Find the arithmetic mean.

Q13. What percentage of 2 hours is 36 minutes?

Q14. Draw a line 'l'. Take a point 'P' outside it. Through 'P' draw a line 'm' parallel to line 'l' using ruler and compass only. (steps of construction are not required)

Q15. Find the value of  $3m^2 - 2m + 7$  if  $m = 2$ .

Q16. In the given figure  $\overline{AB}$  and  $\overline{CD}$  bisect each other at 'O'.



(a) State the 3 pairs of equal parts in  $\triangle AOC$  and  $\triangle BOD$ .

(b) Name the congruence criterion used.

Q17. Express the following number as a product of prime factors.

432

Q18. Write the order of rotation and angle of rotation in a rectangle.

Q19. Solve the following equation and check your answer

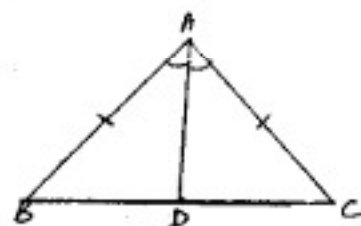
$$28 = 4 + 3(a + 5)$$

Q20. The marks scored by 7 students of a class in a test are given below :

37, 15, 40, 30, 58, 25, 40

Find the range, mode and median of the given data.

Q21. In the following figure, AD is the bisector of  $\angle BAC$ .



(a) State 3 pairs of equal parts in triangles ADB and ADC.

(b) Is  $\triangle ADB \cong \triangle ADC$ ?

(c) Is  $\angle B = \angle C$ ? Give reasons.

Q22. The cost of a flower vase is ₹120. If the shopkeeper sells it at a loss of 10%, find the price at which it is sold?

Q23. Construct  $\triangle XYZ$  given  $XY = 6\text{cm}$ ,  $\angle Y = 120^\circ$  and  $\angle X = 40^\circ$ . (steps of construction not required)

Q24. Subtract  $2x-2y-12$  from the sum of  $4x-y+10$  and  $-y-4$ .

Q25. Simplify :  $\frac{2 \times 3^4 \times 2^5}{9 \times 4^2}$

Q26. Solve the following :

A teacher tells in the class that the highest marks obtained by a student in her class is 15 less than the thrice the lowest marks. The highest marks are 96. What are the lowest marks?

Q27. Simplify and find the value of the expression for  $y = -2$

$$4(2y - 1) + 3y + 11$$

Q28. What rate gives ₹280 as interest on a sum of ₹56,000 in 2 years?

Q29. (a) Construct two equations starting with  $t = -5$ .

(b) Solve the following equation by trial and error method

$$5m + 2 = 17$$

Q30. Following data shows the favourite sports of boys and girls of a school. Draw the double bar graph choosing appropriate scale.

	Lawn tennis	Kho-Kho	Cricket	Football	Table Tennis
Boys	32	12	90	110	2
Girls	45	80	57	60	8

Q31. Construct a right angled triangle PQR where  $\angle Q = 90^\circ$ ,  $QR = 7\text{cm}$  and  $PR = 9\text{cm}$ . Also write the steps of construction.

Q32. (a) Simplify :  $\frac{(3^5)^2 \times 7^3}{(3^3)^3 \times 7^2}$

(b) Express 8,428,900 in standard form.

Q33. Arun brought a car for ₹3,50,000. The next year, price went upto ₹3,70,000. What was the percentage increase of price?

Q34. Calculate the total amount to be repaid if ₹5,000 is borrowed for 3 years at 14% p.a.



**SACHDEVA  
GLOBAL SCHOOL**

<b>CLASS - VII</b>	<b>GENERAL KNOWLEDGE</b>	<b>SA - II</b>	<b>25 - 2 - 13</b>
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<b>Name:</b>	<b>M M : 20</b>	<b>Time : 1 Hr</b>
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**EACH QUESTION CARRIES 1 MARK**

**Tick the correct option:**

Q1. The translator that converts the high language into machine language line by line.

- a) Interpreter                      b) convertor                      c) Assembler

Q2. He authored the biographical Akbarnama.

- a) Birbal                      b) Tenali Rama                      c) Abul Fazi

Q3. Popular saying 'Hitch your wagon to a star' means

- a) Aim as high as you can                      b) Great things take time                      c) None of these

Q4. Finland is also known as

- a) The island of pearls                      b) The land of the thousand lakes                      c) The land of cloves

**Name the country to which following cities belong to.**

City

Country

Q5. Venice

\_\_\_\_\_

Q6. Bangkok

\_\_\_\_\_

**Identify the religion to which this symbol belongs.**

Q7



\_\_\_\_\_



**Fill in the blanks:**

Q8. \_\_\_\_\_ was built during medieval period in Delhi and is also the world's tallest brick minaret.

Q9. \_\_\_\_\_ is the Jewish festival of lights.

Q10. \_\_\_\_\_ refers to an application involving more than one type of media, such as text, graphics, video, animation.

**Identify the countries to which the following dance form belongs.**

Q11. Tango \_\_\_\_\_

Q12. Kodo \_\_\_\_\_

**Name the currency used in following countries.**

Q13. Italy \_\_\_\_\_

Q14. Egypt \_\_\_\_\_



**Identify the name of the following headgear.**

**Q15.**



**Answer the following question:**

**Q16. Who has been awarded with the Best Administrator of India Award instituted by K. Karunakaran Foundation?**

\_\_\_\_\_

**Q17. Which country won Davis Cup 2012 (men's tennis)?**

\_\_\_\_\_

**Q18. Who is the winner of Miss Universe 2012?**

\_\_\_\_\_

**Q19. Who is winner of Laureus sportswoman Award of year 2012?**

\_\_\_\_\_

**Q20. Who has been newly appointed as United Nations goodwill ambassador for UNAID?**

\_\_\_\_\_

अवधि: - होरात्रयम्

पूर्णाङ्कः - 80

- निर्देशाः - (1) अस्मिन् प्रश्नपत्रे चत्वारः खण्डाः सन्ति।  
 (2) प्रतिखण्ड-उत्तराणि पृथक् प्रदत्तायाम् उत्तरपुस्तिकायां लेखनीयानि।  
 (3) प्रत्येकं खण्डम् अधिकृत्य उत्तराणि एकस्मिन् स्थाने क्रमेण लेखनीयानि।  
 (4) प्रश्नपत्रे उत्तराणि न लेखनीयानि।  
 (5) प्रश्नसंख्या प्रश्नपत्रानुसारं अवश्यमेव लेखनीया।  
 (6) सर्वेषां प्रश्नानां उत्तराणि संस्कृतेन लेखनीयानि।

खण्डः - 'क' (अपठित-अवबोधनम्)

अङ्काः 10

प्र1. अधोलिखितम् अनुच्छेदं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि लिखत -

जनाः प्रायः स्वार्थपरायणाः सन्ति। परेषां उपकाराय ते धनादिकं न वितरन्ति। विरलाः दाने प्रीतिं दर्शयन्ति। किन्तु नद्यः तरवः मेघाः च परोपकाराय एव जीवन्ति। जलेन पूर्णाः नद्यः मानवहिताय वहन्ति। ताः स्वजलं स्वयं न पिबन्ति। तथैव वृक्षाः अपि स्वफलानि स्वयं न खादन्ति। खगाः, पशवः मनुष्याः च वृक्षाणां फलानि भक्षयन्ति। इत्थं छायावन्तः वृक्षाः अपि परोपकाराय स्थिताः सन्ति। मेघाः समुद्रस्य क्षारं जलं पिबन्ति। किन्तु मधुरं जलं भुवनाय प्रयच्छन्ति। जलस्य वर्षणेन विविधानि सस्यानि उद्भवन्ति यैः सर्वे जीवाः जीवन्ति। एवमेव सत्पुरुषाः अपि परोपकाराय जीवन्ति। सज्जनानां सम्पत्तिः परेषां दुःखनिवारणाय एव। सन्तः स्वार्थं त्यजन्ति परमार्थं च भजन्ति। ते लोकानां कल्याणाय सर्वस्वं समर्पयन्ति। उक्तं च - 'परोपकाराय सतां विभूतयः।

I. एकपदेन उत्तरत -

(4x½=2)

- के समुद्रस्य क्षारं जलं पिबन्ति?
- प्रायः जनाः कीदृशाः सन्ति?
- केषां सम्पत्तिः परेषां दुःखनिवारणाय अस्ति?
- केन पूर्णाः नद्यः मानवहिताय वहन्ति?

II. पूर्णवाक्येन उत्तरत -

(2x2=4)

- के के परोपकाराय जीवन्ति?
- के के वृक्षाणां फलानि भक्षयन्ति?

III. यथानिर्देशं उत्तरत -

(4x½=2)

- 'मधुरं जलं' अनयोः पदयोः विशेषणपदं किम् अस्ति?
- 'खादन्ति' क्रियापदस्य कर्तृपदम् किम् अस्ति?
- 'वृक्षाः' अस्य किम् पर्यायपदम् अत्र प्रयुक्तम्?
- 'स्वार्थं' अस्य किम् विलोमपदम् अत्र प्रयुक्तम्?

IV. अस्य अनुच्छेदस्य कृते उचितं शीर्षकं लिखत।

(2)

- प्र2. भवान् नरेन्द्रः समयस्य सदुपयोगार्थम् स्वमित्रं लक्ष्मीधरं प्रति लिखितं इदम् पत्रम् मञ्जूषातः उचितं पदं चित्वा पूरयत - (10x½=5)

मञ्जूषा  
स्वकुशलस्य, समयेन, परिणामं, स्वपरीक्षायाम्, प्राप्तं,  
नरेन्द्रः, नमस्कारं, जयपुरतः, सहपाठिनः, उत्तरस्य

(1) \_\_\_\_\_

तिथिः \_\_\_\_\_

प्रिय मित्र लक्ष्मीधर!

सस्नेहं (2) \_\_\_\_\_ ।

अत्र कुशलं तत्रास्तु । विशिष्टा वार्ता इयम् अस्ति यत् अद्य एव भवता प्रेषितं पत्रं (3) \_\_\_\_\_ ।  
पठित्वा प्रसन्नः अभवम् । भवान् स्वपरीक्षायाः (4) \_\_\_\_\_ न अलिखत् । आशासे यत् भवान्  
(5) \_\_\_\_\_ श्रेष्ठैः अंकैः उत्तीर्णः भविष्यति । मित्र ! अद्यत्वे व्यर्थम् एव समयस्य नाशकाः अनेके  
(6) \_\_\_\_\_ मिलन्ति ये पठनात् विमुखं कुर्वन्ति । त्वम् (7) \_\_\_\_\_ कार्याणि कुरु । समये-समये  
(8) \_\_\_\_\_ समाचारं अवश्यमेव प्रेषयतु । भवतः (9) \_\_\_\_\_ प्रतीक्षायाम् ।

भवतः मित्रं

(10) \_\_\_\_\_

- प्र3. अधः प्रदत्तं चित्रम् आधृत्य मञ्जूषायां प्रदत्तशब्दानां सहायतया पञ्चसंस्कृतवाक्यानि लिखत । (10)

मञ्जूषा  
आश्रमस्य, वृक्षस्य, पर्णकुटीरे, अश्वे, स्थितः, उत्पत्तिः, खगाः,  
अधः, सूर्यः, शुकः, साधुः, नृपः, हस्ते, पात्रम्, वार्तालापम्





4. कोष्ठगतशब्देषु उचितविभक्तिं प्रयुज्य वाक्यानि उत्तरपुस्तिकायाम् लिखत :

- (i) \_\_\_\_\_ परितः जलम् अस्ति । (ग्राम)
- (ii) \_\_\_\_\_ नमः । (देव)
- (iii) \_\_\_\_\_ बहिः मुनिः उपविशति । (मन्दिर)
- (iv) बालकः \_\_\_\_\_ निपुणः अस्ति (चित्रकला)
- (v) \_\_\_\_\_ अधः अनेके बालकाः क्रीडन्ति । (वृक्ष)

प्र5. (क) अधोलिखितवाक्येषु अंकानां स्थाने संख्यावाचक-विशेषणैः रिक्तस्थानानि पूरयित्वा वाक्यं पुनः लिखत-  
(3x1=3)

(i) रंगमञ्चे (22) \_\_\_\_\_ बालिकाः नृत्यन्ति ।

(ii) कक्षायाम् (50) \_\_\_\_\_ छात्राः पठन्ति ।

(iii) पात्रे (3) \_\_\_\_\_ फलानि सन्ति ।

(ख) कोष्ठकप्रदत्तक्रमवाचकसंख्याशब्दैः सह उचितां विभक्तिं प्रयुज्य रिक्तस्थानपूर्तिम् कुरुत - (3x1=3)

(i) \_\_\_\_\_ बालकः अत्र न उपस्थितः । (तृतीय)

(ii) मम भगिनी \_\_\_\_\_ कक्षायां पठति । (पञ्चमी)

(iii) अहं \_\_\_\_\_ पाठं पठामि । (प्रथम)

(5x1=5)

प्र6. उचितशब्दरूपैः रिक्तस्थानानि पूरयित्वा वाक्यानि पुनः लिखत -

(i) स्व \_\_\_\_\_ कार्यं कुरु । (मति - तृतीया विभक्तिः एकवचनम्)

(ii) \_\_\_\_\_ कपोतस्य वर्णः श्वेतः अस्ति । (एतद्)

(iii) माता \_\_\_\_\_ वस्त्राणि प्रक्षालयति । (वारि)

(iv) शिशुः \_\_\_\_\_ रोदिति । (वारि - चतुर्थी विभक्तिः एकवचनम्)

(v) पुत्रः \_\_\_\_\_ सह विद्यालयं गच्छति । (पितु)

(5x1=5)

प्र7. उचितधातुरूपैः रिक्तस्थानानि पूरयित्वा वाक्यानि पुनः लिखत -

(i) मोहनः निजकार्यं सम्पन्नम् \_\_\_\_\_ । (कृ - लङ् लकारे)

(ii) द्वौ अश्वौ क्षेत्रे \_\_\_\_\_ । (चर)

(iii) ह्यः अहं दुग्धम् न \_\_\_\_\_ । (पा)

(iv) आगामी - वर्षे जनाः व्यापारं \_\_\_\_\_ । (कृ)

(v) अस्मिन् प्रासादे अनेके राजपुत्राः \_\_\_\_\_ । (वस)

(4x1=4)

प्र8. निम्नवाक्यानि शुद्धं कृत्वा पुनः लिखत -

(i) यानम् राजमार्गे चलन्ति ।

(ii) विशालः उद्यानं दृष्ट्वा सर्वे तत्र अगच्छन् ।

(iii) गतयर्षे ते पटनानगरे वसन्ति ।

(iv) यूयम् उच्चैः पाठं पठामः ।

त्या।

अङ्काः 30

खण्डः - 'घ' (पठित-अवबोधनम्)

(5)

प्र9. अधोलिखितं गद्यांशं पठित्वा प्रदत्तप्रश्नानां उत्तराणि लिखत -

अस्याः भाषायाः वैज्ञानिकतां विचार्य एव सङ्गणकविशेषज्ञाः कथयन्ति यत् संस्कृतमेव सङ्गणकस्य कृते सर्वोत्तमा भाषा विद्यते । अस्याः वाङ्मयं वेदैः, पुराणैः नीतिशास्त्रैः चिकित्साशास्त्रादिभिश्च समृद्धमस्ति । कालिदाससदृशानां विश्वकवीनां काव्यसौन्दर्यम् अनुपमम् । चाणक्यरचितम् अर्थशास्त्रम् जगति प्रसिद्धमस्ति । गणितशास्त्रे शून्यस्य प्रतिपादनं सर्वप्रथमं भास्कराचार्यः सिद्धान्तशिरोमणौ अकरोत् । चिकित्साशास्त्रे चरकसुश्रुतयोः योगदानं विश्वप्रसिद्धम् । संस्कृते यानि अन्यानि शास्त्राणि विद्यन्ते तेषु खगोलविज्ञानं, वास्तुशास्त्रं, रसायनशास्त्रं, ज्योतिषशास्त्रं विमानशास्त्रं च उल्लेखनीयम् ।

(2x½=1)

I. एकपदेन उत्तरत -

(i) अर्थशास्त्रस्य रचयिता कः अस्ति?

(ii) कस्य कृते संस्कृतभाषा सर्वोत्तमा विद्यते?

(2x1=2)

II. पूर्णवाक्येन उत्तरत -

(i) संस्कृते अन्यानि शास्त्राणि कानि कानि सन्ति?

(ii) केषाम् काव्यसौन्दर्यम् अनुपमम्?

(4x½=2)

III. यथानिर्देशं उत्तरत -

(i) 'कथयन्ति' क्रियापदस्य कर्तृपदम् किम् अस्ति?

(ii) 'सर्वोत्तमा भाषा' अनयोः पदयोः विशेष्यपदम् किम्?

(iii) 'संसारे' अस्य किम् पर्यायपदम् अत्र प्रयुक्तम्?

(iv) 'साहित्यं' इत्यर्थे किम् पदम् अत्र प्रयुक्तम्?

(5)

प्र10. अधोलिखितं पद्यांशं पठित्वा प्रदत्तप्रश्नानां उत्तराणि लिखत -

विद्या नाम नरस्य रूपमधिकं प्रच्छन्नगुप्तं धनम्

विद्या भोगकरी यशः सुखकरी विद्या गुरुणां गुरुः ।

विद्या बन्धुजनो विदेशगमने विद्या परा देवता ।

विद्या राजसु पूज्यते न हि धनं विद्या-विहीनः पशुः ॥

(2x½=1)

I. एकपदेन उत्तरत -

(i) विद्या केषां गुरुः अस्ति?

(ii) विद्या विदेशगमने कः भवति?

(2x1=2)

II. पूर्णवाक्येन उत्तरत -

(i) कः पशुः भवति?

(ii) का भोगकरी?

(B-4)

## III. यथानिर्देशं उत्तरत -

- (i) 'स्वदेश' पदस्य विलोमपदं श्लोकात् चित्वा लिखत ।
- (ii) 'नृपेषु' अस्य किं पर्यायपदम् अत्र प्रयुक्तम्?
- (iii) 'पूज्यते' अस्य क्रियापदस्य कर्तृपदम् किम्?
- (iv) 'प्रच्छन्नगुप्तं धनम्' अनयोः पदयोः विशेष्यपदम् किम्?

(5)

प्र11. अधोलिखितं नाट्यांशं पठित्वा प्रदत्तप्रश्नानां उत्तराणि लिखत -

सलीमः - शुणु, केशरवर्णः शौर्यस्य, श्वेतः, शान्तेः हरितश्च समृद्धेः सूचकाः सन्ति । स्वयं च अयं ध्वजः अनेकत्वे एकत्वस्य द्योतकः ।

शुचिः - किम् एतासां पट्टिकानाम् अन्यदपि महत्त्वम्?

डेविडः - आम्! कथं न! ध्वजस्य उपरि स्थिता केशरपट्टिका अग्निशिखा इव ऊर्जस्वितायाः उत्साहस्य च सूचिका । मध्ये स्थिता श्वेतपट्टिका सात्त्विकतायाः निर्मलतायाः च द्योतिका । अधः स्थिता हरितपट्टिका समृद्धेः प्रगतेश्च सङ्केतिका ।

(2x½=1)

## I. एकपदेन उत्तरत -

- (i) अयं ध्वजः अनेकत्वे कस्य द्योतकः?
- (ii) ध्वजे केशरवर्णः कस्य सूचकः?

(2x1=2)

## II. पूर्णवाक्येन उत्तरत -

- (i) हरितपट्टिका कस्याः सङ्केतिका?
- (ii) मध्ये स्थिता श्वेतपट्टिका कस्याः द्योतिका?

(4x½=2)

## III. यथानिर्देशं उत्तरत -

- (i) 'अधः' अस्य पदस्य किम् विलोमपदम् अत्र प्रयुक्तम्?
- (ii) 'अयं ध्वजः' अनयोः पदयोः विशेषणपदम् किम्?
- (iii) 'उन्नतेः' अस्य पदस्य किम् पर्यायपदम् अत्र प्रयुक्तम्?
- (iv) 'द्योतिका' इत्यर्थे किम् अन्यपदम् अस्मिन् संवादे प्रयुक्तम्?

(4x1=4)

प्र12. अधोलिखितश्लोकस्य अन्वयं उचितपदक्रमेण पूरयित्वा उत्तरपुस्तिकायां पुनः लिखत -

मातेव रक्षति पितेव हिते नियुङ्क्ते  
कान्तेव चाभिरमयत्यपनीयखेदम् ।  
लक्ष्मीं तनोति वितनोति च दिक्षु कीर्तिम् ।  
किं किं न साधयति कल्पलतेव विद्या ॥

अन्वयः माता इव रक्षति (1)\_\_\_\_\_ इव हिते नियुङ्क्ते । कान्ता इव च खेदम् अपनीय अभिरमयति ।  
(2)\_\_\_\_\_ तनोति दिक्षु च (3)\_\_\_\_\_ वितनोति । (4)\_\_\_\_\_ कल्पलता इव किं  
किं न साधयति ।

प्र13. अधोलिखितवाक्येषु रेखांकितपदानि आधृत्य प्रश्ननिर्माणं कुरुत -

(4x1=5)

- (i) संसारे कलहस्य वातावरणम् अस्ति ।
- (ii) गजेन मम सन्ततिः नाशिता ।
- (iii) संस्कृतभाषा प्राचीनतमा भाषा अस्ति ।
- (iv) मानवाः परस्परं व विश्वसन्ति ।

प्र14. अधोलिखितवाक्यानि घटनाक्रमानुसारेण पुनः लिखत -

(8x½=4)

- (i) चटकायाः विलापं काष्ठकूटः नाम खगः अशृणोत् ।
- (ii) मक्षिका, काष्ठकूटः चटका च सर्वे मिलित्वा मण्डूकस्य समीपम् अगच्छत् ।
- (iii) काष्ठकूटः चटकां मक्षिकायाः समीपम् अनयत् ।
- (iv) एकदा एकः गजः वृक्षस्य अधः आगत्य चटकायाः अण्डानि नष्टम् अकरोत् ।
- (v) एकस्मिन् वृक्षे एका चटका वसति स्म ।
- (vi) मण्डूकः तान् सर्वान् एकम् उपायम् अयदत् ।
- (vii) गर्तं जलाशयं मत्वा गजः गर्तस्य अन्तः पतितः मृतः च ।
- (viii) मण्डूकः मध्याह्ने गर्तस्य समीपं गत्वा शब्दम् अकरोत् ।

प्र15. अर्थैः सह शब्दानां मेलनम् कृत्वा उत्तरपुस्तिकायां पुनः लिखत -

(6x½=3)

शब्दाः	अर्थाः
कुटुम्बकम्	सम्पूर्णं
भुवि	कोषः
व्यसने	परिवारः
अपहाय	पृथिव्याम्
निधिः	संकटे
निखिले	त्यक्त्वा

## SUBJECT : COMPUTER SCIENCE

Time : 2 Hrs.

M.M.: 50

Q1. Choose the correct answer and write it in the answer sheet:  
(6x1=6)

- (i) The shortcut key to cut the selected data is -
  - (a) Ctrl + Z
  - (b) Ctrl + C
  - (c) Ctrl + X
  - (d) Ctrl + A
- (ii) A file of MS-Excel is called -
  - (a) Workbook
  - (b) Worksheet
  - (c) Cell
  - (d) Formula
- (iii) The statement used to unconditionally transfer the control from one point to another in QBasic program-
  - (a) For\_Next
  - (b) GoTo
  - (c) While\_Wend
  - (d) Do\_While
- (iv) Which one of the following is the default Windows browser software -
  - (a) Google Chrome
  - (b) Internet Explorer
  - (c) Netscape Navigator
  - (d) Mozilla Firefox
- (v) The last statement in the select\_case statement is -
  - (a) End Case
  - (b) End If
  - (c) End Select
  - (d) End
- (vi) The output of  $14 \bmod 3$  is -
  - (a) 4
  - (b) 3
  - (c) 0
  - (d) 2

Q2. Write one word answer for the following : (8x1=8)

- (i) Excel function to find largest value in a set of numbers.
- (ii) Name given to the currently selected cell in Excel.
- (iii) Default number of worksheets in a workbook.
- (iv) The type of Internet connection that gives us continuous connectivity.
- (v) A committee that manages the World Wide Web.

- (vi) The address given to an Internet server.
- (vii) Function key used to run QBasic program.
- (viii) Give an example of high level language.

Q3. Answer the following questions in brief : (7x2=14)

- (i) What is a function? Name any two Excel functions.
- (ii) What are the four datatypes that can be entered in an Excel Worksheet?
- (iii) Write the steps to sort data in Excel.
- (iv) What is a looping statement? Name any two looping statements of QBasic.
- (v) What do you understand by Client/Server networking?
- (vi) What are logical operators? Give two examples.
- (vii) What is the use of While\_Wend loop in QBasic?

Q4. Answer the following questions : (4x3=12)

- (i) Write the syntax of the For\_next statement.
- (ii) What is a selection statement? Name two selection statements used in QBasic.
- (iii) Write QBasic program to print cube of first 10 natural numbers.
- (iv) Write QBasic program to enter a number and print if it is odd or even.

Q5. Expand the following terms : (4x1=4)

- |           |           |
|-----------|-----------|
| (i) ISDN  | (ii) ISP  |
| (iii) URL | (iv) KBPS |

Q6. Define the following : (4x1=4)

- |                        |                   |
|------------------------|-------------------|
| (i) Cell address       | (ii) Modem        |
| (iii) Browser Software | (iv) MOD Operator |

- Q7. (i) If the values in the cells are given as - A1 = 5, A2 = 10, A3 = 15 then to continue the series upto A20 which feature of MS-Excel can we use? (1)
- (ii) In a spreadsheet software, what is the column immediately next to column "Z"? (1)

## SUBJECT : INTEGRATED SCIENCE

Time : 2½ Hrs.

M.M.: 80

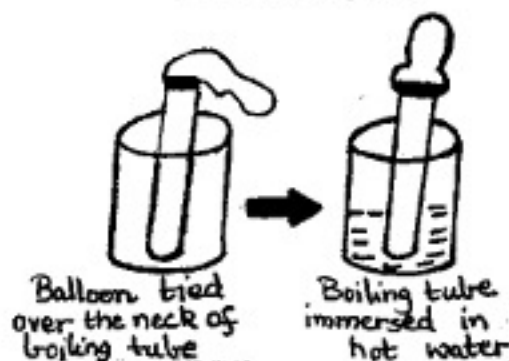
## General Instructions :

- (i) This paper consists of three sections A, B and C.
- (ii) Marks are indicated against each question.
- (iii) Draw neat and well labelled diagrams wherever required.


## PART-A (PHYSICS)

Q1. Answer the following in one sentence each : (1x4=4)

- (a) Aniket tried to measure his body temperature using laboratory thermometer. Will he be able to measure the accurate body temperature? Give reason.
- (b) Observe the following diagram.



Why does the balloon shown in the figure get inflated?

- (c) Why is it advised to purchase electronic items with  mark?
  - (d) Arushi connected an electric iron, a dryer and a television set to a single socket. When the switch was turned 'ON', she observed sparking in the socket. Identify the cause of sparking.
- Q2. Fill in the blanks : (1x4=4)
- (a) \_\_\_\_\_ is used for measuring speed of wind.

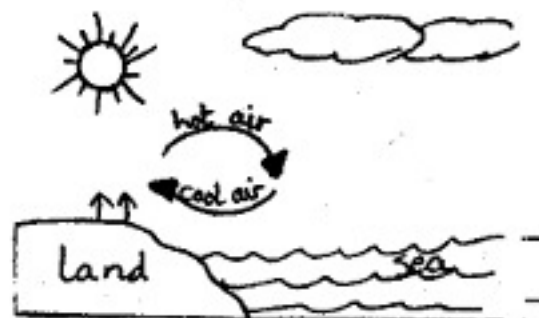
- (b) Air moves from a region of \_\_\_\_\_ pressure to the region of \_\_\_\_\_ pressure.
- (c) Normal human body temperature is \_\_\_\_\_ °C.
- (d) A low pressure system with very high speed winds revolving around it is known as \_\_\_\_\_.

Q3. Give one technical term for the following : (1x2=2)

- (a) Switches which automatically turn off when current in a circuit exceeds the safe limit.
- (b) A storm which is accompanied by lightning followed by a loud sound from the clouds.

Q4. Answer briefly : (2x3=6)

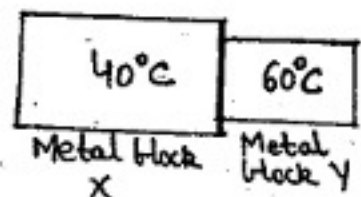
- (a) (i) Identify the type of breeze from the following diagram.
- (ii) Define it.



- (b) What is the role of advance technology in reducing destruction caused by cyclone?
- (c) Raghav has a white shirt and a black shirt. Which shirt will make him more comfortable in : (i) winter (ii) summer? Give reason for your answer.

Q5. Answer the following : (3x2=6)

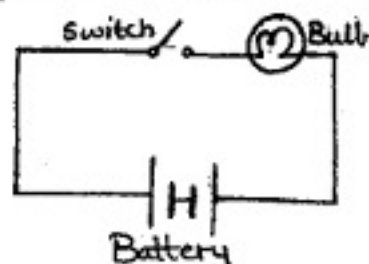
- (a) The temperature of bigger metal block X is 40°C and temperature of smaller metal block Y is 60°C.



(2)



- (i) Will heat be transferred from one metal block to the other? Justify your answer:
  - (ii) Name the process by which the transfer of heat will take place.
- (b) The bulb is not glowing in the circuit shown below :
- (i) Identify the problems.
  - (ii) Redraw the circuit diagram after correcting the problems. Also show the direction of current.



- Q6. (a) Draw a well labelled diagram of an electric bell. (3)
- (b) Give reason for the following : (2)
- (i) Bicycle tube overfilled with air may burst.
  - (ii) Wires used for making electric fuses should have low melting point.

#### PART-B (CHEMISTRY)

- Q1. Answer the following in one sentence : (1x4=4)
- (a) The iron pipes used in our homes to carry water are galvanised. Define galvanisation.
  - (b) Melting of wax is a physical change while burning of candle is a chemical change. Justify giving a suitable reason.
  - (c) Kavita's mother prepared chowmein and used a lot of vinegar. After eating it in excess Kavita suffered from acidity so her mother gave her milk of magnesia. Which acid and base have been used by Kavita's mother?
  - (d) Construction of multistoreyed apartments is leading to depletion of water table. What is water table?

Q2. Fill in the blanks : (1x4=4)

- (a) The solutions which do not change the colour of either red or blue litmus are known as \_\_\_\_\_ solutions.
- (b) Ozone absorbs the harmful \_\_\_\_\_ radiations and breaks down to oxygen.
- (c) Conserving rain water to recharge the groundwater is referred to as \_\_\_\_\_.
- (d) The most commonly used natural indicator litmus is extracted from \_\_\_\_\_.

Q3. Give a technical term for the following : (1x2=2)

- (a) A reaction between an acid and a base that results in the formation of salt and water with evolution of heat.
- (b) A technique of watering plants by making use of narrow tubings which deliver water directly at the base of the plant.

Q4. Answer briefly : (2x3=6)

- (a) Select the odd one out giving a suitable reason
  - (i) Alloying, galvanisation, painting, crystallisation
  - (ii) Litmus, ascorbic acid, phenolphthalein, turmeric
- (b) Rajat is learning about water cycle in his class. His teacher tells that water from different sources changes into vapour form by the processes 'X' and 'Y', changes into clouds and reaches the earth by the process 'Z'. Name the processes 'X', 'Y' and 'Z' and define infiltration.
- (c) Iron articles are often painted to prevent rusting. Represent the process of rusting with the help of a word equation and state why rusting is faster in humid weather?

Q5. Answer in detail : (3x2=6)

- (a) (i) Komal took a small piece of magnesium ribbon and brought it near a candle flame. When it

was completely burnt, it left behind a powdery ash. Represent the change mentioned above with the help of a word equation.

- (ii) She then collected the ash and mixed it with a small amount of water. Name the product of this chemical change. What will be her observations when she will test the mixture with blue and red litmus papers? Give a suitable reason for your answer.

- (b) Depletion of water table is a matter of serious concern these days. Explain how the following factors deplete the water table

- (i) increasing population
- (ii) agricultural activities.

- Q6. (a) Certain everyday conditions can be treated with use of acids or bases. Complete the following table related to these common conditions.

Condition	Treatment	Reason for choice of treatment
(i) Ant bite		
(ii) Excessively basic soil		
(iii) Acidic factory waste		

- (b) What is acid rain? How do excess of carbondioxide and sulphurdioxide lead to formation of acid rain? (5)

#### PART-C (BIOLOGY)

- Q1. Answer the following in one sentence : (1x4=4)

- (a) Brijmohan is a farmer who prefers either clayey or loamy soil for growing wheat and gram. Give a suitable reason for his choice.

- (b) Our RBCs contain a red pigment called haemoglobin. Why is the presence of haemoglobin important to all the cells of the body?
- (c) Farmers prefer growing crops like potato by the method of vegetative propagation. State the importance of vegetative propagation for plants.
- (d) Thin walled blood vessels called veins are characterised by the presence of valves. Why do veins have valves?

Q2. Fill in the blanks : (1x3=3)

- (a) An alga like Spirogyra breaks up into two or more pieces by the process of \_\_\_\_\_.
- (b) A type of blood cells called \_\_\_\_\_ form a clot and stop bleeding at the time of injury.
- (c) The process of breaking down of rocks by the action of wind, water and climate is called \_\_\_\_\_.

Q3. Give a technical term for the following : (1x2=2)

- (a) The transfer of pollen from the anther to the stigma of a flower.
- (b) A throbbing movement felt on the inner side of the wrist due to the flow of blood in the arteries.

Q4. Answer briefly : (2x3=6)

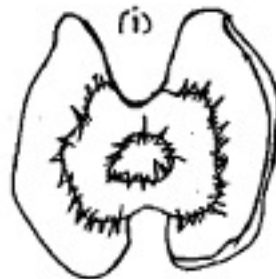
- (a) The best soil for growing plants is loamy soil. Write two characteristics of loamy soil that make it suitable for plant growth.
- (b) Define excretion. Write the excretory products of :
  - (i) land animals like lizards
  - (ii) aquatic animals like fish
- (c) In process 'P' the male gamete fuses with the female gamete to form 'Q' which undergoes divisions to form structure 'R'. Name 'P', 'Q' and 'R'.

After process 'P', what changes take place in the ovary and other parts of the flower?

Q5. Answer in detail :

(3x2=6)

- (a) Given below are the figures of some seeds. Identify the seeds and write their mode of dispersal.

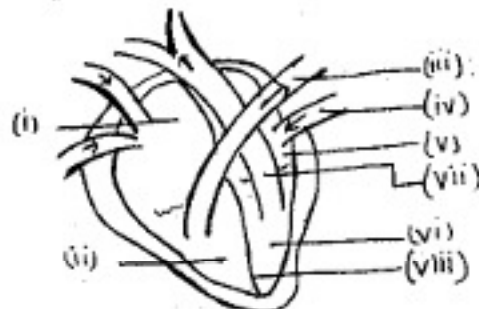


How is the process of seed dispersal advantageous?

- (b) Draw a neat, well-labelled diagram of a soil profile and state important features of the layer below the uppermost layer.

Q6. Given below is a figure of structure of human heart.

- (a) Label parts 'ii', 'v' and 'viii'.



- (b) With the help of figure given above complete the following with respect to the circulation of blood.

\_\_\_\_\_ blood enters \_\_\_\_ (i) \_\_\_\_ through vena cava and gets filled in 'ii'. From there \_\_\_\_ 'iii' \_\_\_\_ takes the blood to the lungs. \_\_\_\_ 'iv' \_\_\_\_ brings back \_\_\_\_\_ blood to 'v' from where it enters \_\_\_\_ 'vi' \_\_\_\_\_. This blood is distributed to all the body parts by \_\_\_\_ vii \_\_\_\_\_. (5)

Time : 3 Hrs.

M.M.: 80

**General Instructions :**

- (i) *Read all the questions very carefully.*
- (ii) *Number the answers as given in the question paper.*
- (iii) *Write in a neat and clear handwriting.*
- (iv) *Write the answers in complete sentences.*

**Section-A (Compréhension Écrite)**

A1. Lisez et répondez :

Paris, le 1<sup>er</sup> Septembre

Cher Denis

Comment ça va? Moi, je vais bien. Dans cette lettre, je décris ma fête préférée. En France, on a beaucoup de fêtes comme le nouvel an, Mardi Gras, Pâques. Ma fête favorite est Noël.

À Noël, on décore le sapin avec des étoiles, des bonbons et des boules. On met les cadeaux pour notre famille sous l'arbre. Le père Noël donne des cadeaux aux enfants. Le réveillon est le repas du soir de Noël. On décore la maison avec des guirlandes électriques. On s'amuse beaucoup. J'aime bien cette fête parce que je reçois beaucoup de cadeaux.

Décris-moi ta fête favorite.

Amicalement

Louis

(2x2=4)

A1.1 Répondez :

- 1. Quelles sont les fêtes de France?
- 2. Avec quoi, décore-t-on le sapin?

A1.2 Complétez avec un mot du texte :

(4)

- 1. On décore la maison avec des \_\_\_\_\_.
- 2. Ma fête \_\_\_\_\_ est Diwali.
- 3. J' écris une \_\_\_\_\_ à mes parents.
- 4. Je mange \_\_\_\_\_ de chocolats.

(1)

A2. Lisez et répondez :

Bonjour, Je m'appelle Mireille. J'habite en France. Les Français aiment bien faire du sport et moi aussi. Quand il neige ici, on fait un bonhomme de neige. Les gens aiment aussi faire de la voile et du rafting dans la rivière. J'adore les montagnes. J'aime beaucoup faire des randonnées dans le Mont blanc. J'aime aussi aller au bord de la mer pour jouer au volley avec mes amis. La France est intéressante, on peut pratiquer beaucoup de sports ici.

A2.1 Répondez : (3)

1. Quelle est la nationalité de Mireille?
2. Qu'est-ce que Mireille adore?
3. Est-ce que les Français aiment faire du sport?

A2.2 Dites 'Vrai' ou 'Faux' : (2)

1. La France n'est pas intéressante.
2. Mireille n'adore pas les montagnes.

A2.3 Cochez la bonne réponse : (2)

1. Mireille aime jouer au \_\_\_\_\_ avec ses amis  
(a) volley (b) foot  
(c) cricket
2. Les gens aiment aussi faire de la voile dans \_\_\_\_\_  
(a) la plage (b) la rivière  
(c) la mer

### Section-B (Expression Écrite)

B1. Décrivez deux fêtes françaises. (5)

B2. Nommez et dessinez cinq ustensiles. (5)

B3. Nommez dix moyens de transport en France. (5)

B4. Faites des phrases : (5)

- |            |           |
|------------|-----------|
| (a) Gâteau | (b) aimer |
| (c) train  | (d) fille |
| (e) classe |           |

### Section-C (Grammaire)

C1. Mettez les verbes suivants au passé composé : (5)

1. Il \_\_\_\_\_ la lettre. (poster)
2. Tu \_\_\_\_\_ ton devoir. (finir)
3. Vous \_\_\_\_\_ le métro (prendre)
4. Nous \_\_\_\_\_ la leçon. (expliquer)
5. Ils \_\_\_\_\_ le colis. (envoyer)

C2. Mettez les phrases suivantes au négatif : (5)

1. Les garçons sont allés au cinéma.
2. Il est parti avec ton cousin.
3. Vous êtes rentrés à midi.
4. Le chien est descendu dans le trou.
5. Il est tombé dans l'eau.

C3. Cochez la bonne réponse : (3)

1. Le ballon est \_\_\_\_\_ la table  
(a) sur (b) à  
(c) dans
2. L'école est \_\_\_\_\_ ma maison  
(a) sous (b) près de  
(c) à
3. \_\_\_\_\_ hiver, il fait très froid  
(a) cette (b) cet  
(c) ce

C4. Retrouvez les phrases : (3)

1. au / lycée / mon / frère / va
2. avons / nous / dansé / beaucoup
3. stylos / ces / sont / noirs

C5. Remplacez le présent par l'impératif : (3)

1. Vous parlez vite.
2. Tu choisis une robe.
3. Nous allons à l'école.



- C6. Conjuguez 'PRIER' au passé composé : à l'affirmatif. (3)
- C7. Complétez avec : 'ce', 'cet', 'cette', 'ces' (2)<sup>es</sup>
1. \_\_\_\_\_ voitures sont grandes.
  2. \_\_\_\_\_ femme est belle.
  3. \_\_\_\_\_ acteur est grand.
  4. \_\_\_\_\_ stylo est noir.
- C8. Chassez l'intrus : (2)
1. musicien / acteur / directeur / facteur.
  2. jolie / mince / belle / grand.
- C9. Corrigez les fautes : (2)
1. Vas à la bibliothèque!
  2. Ces fille parlent beaucoup.
- C10. Conjuguez les verbes au présent : (2)
1. Il \_\_\_\_\_ en retard. (se réveiller)
  2. Tu \_\_\_\_\_ avec de l'eau froide. (se laver)

**Section-D (La culture et la civilisation)**

- D1. Complétez : (5)
1. On prépare la galette pendant la fête de \_\_\_\_\_.
  2. Le 14 juillet, c'est \_\_\_\_\_ de la France.
  3. Il compose de la musique, il est \_\_\_\_\_.
  4. Il joue au cinéma, il est \_\_\_\_\_.
  5. On prie pour les morts pendant la fête de la \_\_\_\_\_.
- D2. Dites 'Vrai' ou 'Faux' : (½x6=3)
1. Aneesh adore le jambon.
  2. Manuel boit une limonade.
  3. Le pourboire est l'argent donné par un client à un garçon.
  4. Le week-end prochain, Manuel va au parc d'attractions.
  5. Aneesh a écrit une lettre à ses parents.
  6. Le drapeau français est bleu, blanc et noir.

D3. Cochez la bonne réponse :

(5)

1. Il fait du pain, il est \_\_\_\_\_.  
(a) boulanger (b) acteur  
(c) directeur
2. \_\_\_\_\_ C'est la fête de la famille en France  
(a) Noël (b) la fête nationale  
(c) la Toussaint
3. Aneesh n' aime pas le \_\_\_\_\_.  
(a) jambon (b) fromage  
(c) jus de raisin
4. \_\_\_\_\_ actrice est jolie  
(a) cet (b) cette  
(c) ce
5. Manuel mange un sandwich au \_\_\_\_\_.  
(a) jambon (b) fromage  
(c) chocolat

D4. Reliez les colonnes :

(2)

- |                    |                       |
|--------------------|-----------------------|
| 1. le coq          | (a) parfumeur         |
| 2. chanel          | (b) la flerté         |
| 3. la Marseillaise | (c) voiture           |
| 4. Renault         | (d) l' hymne national |

11/3/3

Roll No. \_\_\_\_\_ Date \_\_\_\_\_ Class : VII Section \_\_\_\_\_

**SUBJECT : SCIENCE (MULTIPLE CHOICE QUESTIONS)****Time : 30 minutes****M.M.: 15****General Instructions :**

- (i) **Attempt all questions.**
- (ii) **There are 15 multiple choice questions in total. Only one of the options in every question is correct. Put a (✓) against the correct option.**
- (iii) **Each question carries 1 mark.**
- (iv) **Do not use white fluid on these sheets.**
- (v) **Use only pen to mark the answers.**

Q1. Rahul took a tin can full of steam and put a tight lid on it. Then he poured cold water on it. The tin can crushes because

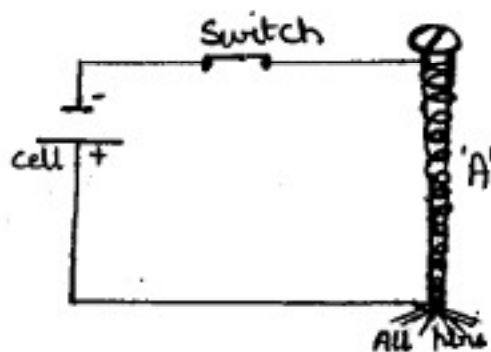
- (a) cold water exerts pressure
- (b) warm air is lighter
- (c) cool air contracts
- (d) both (a) and (c)



Q2. One end of objects (such as a steel spoon, a plastic scale, a pencil and a divider) is put in a beaker containing hot water. In which of these objects the other end will get hot?

- |                                |                            |
|--------------------------------|----------------------------|
| (a) steel spoon, plastic scale | (b) pencil, plastic scale  |
| (c) steel spoon, divider       | (d) divider, plastic scale |

Q3. Identify device 'A' in the following diagram.



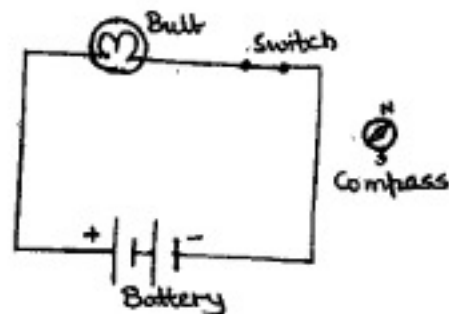
- |                   |                   |
|-------------------|-------------------|
| (a) electric bell | (b) electromagnet |
| (c) element       | (d) fuse          |

Q4. One litre of water at  $30^{\circ}\text{C}$  is mixed with one litre of water at  $50^{\circ}\text{C}$ . The temperature of the mixture will be

- |                          |   |
|--------------------------|---|
| (a) $80^{\circ}\text{C}$ | (b) more than $50^{\circ}\text{C}$ but less than $80^{\circ}\text{C}$ |
| (c) $20^{\circ}\text{C}$ | (d) between $30^{\circ}$ and $50^{\circ}\text{C}$                     |

- Q5. When the current is switched on through a wire, a compass kept nearby gets deflected from its north-south position due to

(a) magnetic effect of electric current  
 (b) lighting effect of electric current  
 (c) heating effect of electric current  
 (d) both (a) and (c)



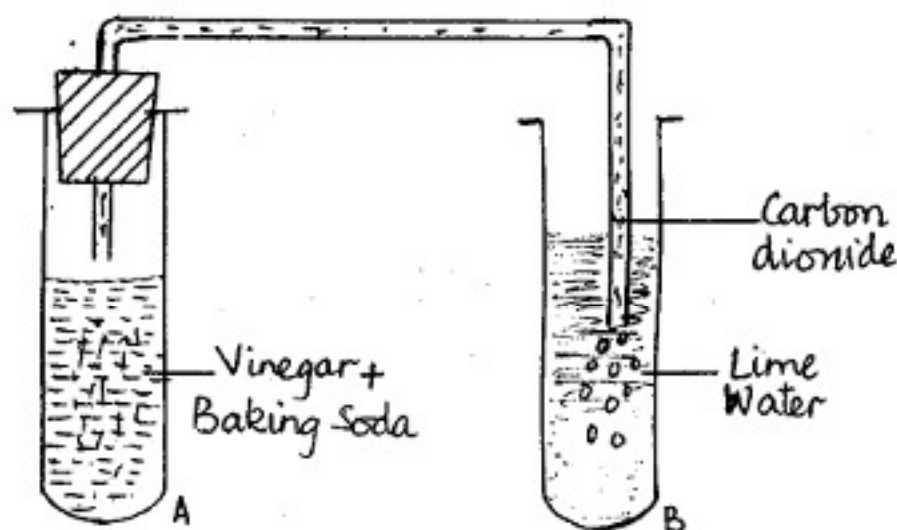
- Q6. A student took hydrochloric acid and added few drops of indicator 'Z' to it. He observed no colour change. Then he gradually added sodium hydroxide solution drop by drop until he observed a colour change. Indicator 'Z' used by him is

(a) litmus (b) china rose  
 (c) turmeric (d) phenolphthalein

- Q7. In the activity mentioned in Q6 colour changes with sodium hydroxide because

(a) sodium hydroxide is an acid  
 (b) sodium hydroxide is a base  
 (c) sodium hydroxide is neutral  
 (d) sodium hydroxide is a natural indicator

- Q8. Observe the given set up. The change taking place in 'A' is -

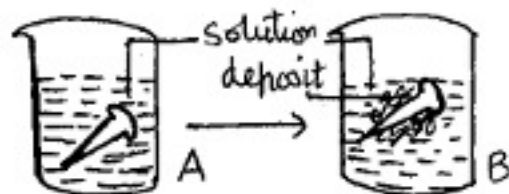


(a) irreversible chemical change (b) reversible chemical change  
 (c) irreversible physical change (d) reversible physical change

- Q9. In the set up given in Q8 carbondioxide produced in A is passed through lime water taken in B. This turns lime water milky due to the formation of

(a) Calcium hydroxide (b) Calcium sulphate  
 (c) Calcium nitrate (d) Calcium carbonate

- Q10. An iron nail is dropped in copper sulphate solution in figure 'A'. After some time colour of solution changes and some substance deposits on iron nail as shown in figure 'B'. Colour of copper sulphate solution changes from

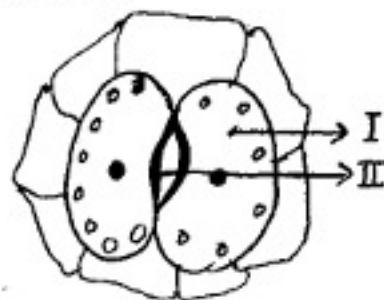


- (a) blue to green  
(b) green to blue  
(c) blue to brown  
(d) brown to blue
- Q11. 'X' is the active stage in the life cycle of silkworm. In this stage it grows enormously and eats day and night. Identify the stage 'X'.

- (a) pupa  
(b) adult  
(c) caterpillar  
(d) both 'a' and 'c'

- Q12. Rohan is observing the permanent slide of leaf epidermis in which he wants to study stomata properly. The correct labelling of stomata is

- (a) I - stomatal pore, II - guard cell  
(b) I - guard cell, II - stomatal pore  
(c) I - nucleus, II - guard cell  
(d) I - guard cell, II - nucleus



- Q13. The tip of the hyphae in Rhizopus (bread mould) bear swollen structures covered by a protective coat which encloses the spores. Identify the swollen structures

- (a) rhizoid  
(b) sporangia  
(c) sporangial wall  
(d) spore coat

- Q14. It takes 20 minutes for 500 ml of water to percolate through a soil sample. The percolation rate for this soil sample is

- (a) 15 ml/min.  
(b) 35 ml/min.  
(c) 25 ml/min.  
(d) 45 ml/min.

- Q15. Rashmi prepared a setup to demonstrate the transportation of water through potato tuber. But to her surprise, the water level did not rise in her apparatus. The probable reason was

- (a) she used a peeled potato  
(b) dilute sugar solution is used inside the potato cavity  
(c) level of water in the petridish is below the level of the pin  
(d) potato with flat base is used to make it stable in the petridish.

