

**D.A.V. PUBLIC SCHOOL, KURUKSHETRA**  
**WINTER ASSIGNMENT**  
**CLASS : VII**  
**SUBJECT : SCIENCE**  
**2017-2018**

**PART - A**

**A. MULTIPLE CHOICE QUESTIONS :**

1. Mushrooms reproduce through :  
(a) spores (b) modified stems  
(c) buds on the leaf margin (d) modified roots
2. Male part of a flower is called  
(a) stamen (b) pistils  
(c) stigma (d) egg
3. Find out the odd one out :  
(a) Wool (b) Polyester  
(c) Silk (d) Cotton
4. Which of the following bacteria causes sorter's disease in sorters?  
(a) Rhizobium (b) Clostridium  
(c) Anthrax (d) Coliform
5. The blood vessels having thick elastic walls are called  
(a) Arteries (b) Veins  
(c) Capillaries (d) Atria

**B. Fill in the blanks :**

1. \_\_\_\_\_ is the respiratory carrier in blood.
2. \_\_\_\_\_ is the muscular wall that divides the heart length-wise.
3. \_\_\_\_\_ is the tendency of similar particles to stick to one another.
4. Soil air is important for roots to carry out \_\_\_\_\_.

5. Eye specialists use ophthalmoscope which is fitted with \_\_\_\_\_.

**C. Answer the following questions:**

1. Name the type of spherical mirror used by dentists.

Ans : \_\_\_\_\_.

2. Name the process of separating silk fibres from cocoons.

Ans : \_\_\_\_\_.

3. Full form of MCB

Ans : \_\_\_\_\_.

4. Name a common house hold device that uses an electromagnet in its working.

Ans : \_\_\_\_\_.

5. \_\_\_\_\_ helps in clotting of blood.

**D. Answer the following questions :**

1. Define the term Short Circuit.

Ans : \_\_\_\_\_

\_\_\_\_\_

2. Write two applications of electromagnet.

Ans : \_\_\_\_\_

\_\_\_\_\_

3. Write the names of two practical devices based on heating effect of current.

Ans : \_\_\_\_\_

\_\_\_\_\_

4. State the type of mirror that the following items would correspond to

(a) Reflector of a torch \_\_\_\_\_

(b) A polished shining wooden surface \_\_\_\_\_

5. List the four main agents of physical weathering.

Ans : \_\_\_\_\_

\_\_\_\_\_

**E. Answer the following questions:**

1. List the three causes of soil pollution.

Ans : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. State any two functions of blood.

Ans : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. State the functions of the three types of blood vessels.

Ans : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Draw a diagram of structure of a flower.

5. Draw a diagram of human excretory system.

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**2017-2018**

**PART - A**

**Answer the following questions:**

1. How are metamorphic rocks formed?
2. What is Lava?
3. How do plants absorb nitrogen?
4. Why do animals in the polar region have thick fur on their bodies?
5. What are wet point settlements?
6. Mentions two advantages of waterways over airway.
7. Give two advantages of electrification of railways.
8. What is the importance of means of communication?
9. Why is the Ganga-Brahmaputra Delta known as Sunderban?
10. Why was Firoz Shah famous for?
11. Why did Rana Kumbha become popular?
12. Why is Shah Jahan known as an engineer king?
13. Explain the Guerilla warfare of Marathas.
14. What is mean by Secularism?

**PART - B**

15. Why is there a difference in prices between a wholesale and a retail market?
16. How can the people keep a check on their representatives?
17. What was the way to realize God according to Guru Nanak?
18. Give the meaning of Bhakti and name four prominent Bhakti Saints.

19. Why did Banda Bahadur fail to strengthen the Sikh power?
20. Mention the difficulties faced by Hamayun after coming to the throne.
21. What were the main achievements of Rana Kumbha of Mewar?
22. Differentiate between Prairies and the Velds.
23. What was the impact of discovery of fire, wheel and iron on human civilizations?
24. Differentiate between hot and cold deserts.
25. How is rainfall caused?
26. What is the importance of carbondioxide and oxygen for living beings?
27. Differentiate between P-wave and the S-wave.

#### **PART - C**

28. What are the various factors responsible for permanent settlement?
29. Describe the development of art and architecture under the Vijaynagar rulers.
30. Distinguish between the Sahara desert and the Ladakh desert with respect to location, climate and vegetation.
31. Explain the achievements of Maharaja Ranjit Singh.
32. List the five factors responsible for the decline of the Mughal empire.

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**Answer the following questions:-**

1. Which is the highest point of the earth surface?

Ans \_\_\_\_\_

2. The devastating earthquake struck the Nepal on which date?

Ans \_\_\_\_\_

3. I am fine grained, glassy and black rock, who am I ? \_\_\_\_\_

4. The Asthenosphere is located inside the?

Ans \_\_\_\_\_

5. Why sky is blue in colour?

Ans \_\_\_\_\_

6. Which gases are responsible for global warming?

Ans \_\_\_\_\_

7. The kanha national park is located in which state?

Ans \_\_\_\_\_

8. Define mixed farming?

Ans \_\_\_\_\_

9. Name the largest delta of the world.

Ans \_\_\_\_\_

10. Name the forest which is dominated by a plant species known as Sundari.

Ans. \_\_\_\_\_

11. Name the place in world where highest recorded temperature is about 58°C.

Ans. \_\_\_\_\_

12. Why Krishnadevoraya used to dress up as common man?

Ans. \_\_\_\_\_

13. Why Humayun was called Zalim Humayun?

Ans. \_\_\_\_\_

14. Which ruler abolished Jazia on Hindus?

Ans. \_\_\_\_\_

15. Kirti Stambha is situated at which fort in Rajasthan?

Ans. \_\_\_\_\_

16. Why Sikri was named Fatehpur Sikri?

Ans. \_\_\_\_\_

17. Why Tansen was famous in the world?

Ans. \_\_\_\_\_

18. How Humayun died?

Ans. \_\_\_\_\_

19. Who was the last Mughal emperor?

Ans. \_\_\_\_\_

20. The Peacock Throne is located where in the Red Fort of Delhi?

Ans. \_\_\_\_\_

21. Which two taxes was collected by Shivaji, from areas not under his direct control?

Ans. \_\_\_\_\_

22. Who established the concept of Sangat and Pangat?

Ans. \_\_\_\_\_



23. Write any one Doha of Kabir.

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

24. Write two main sects of Islam.

Ans. \_\_\_\_\_

25. Who is known as the Father of Constitution of India?

Ans. \_\_\_\_\_

26. Name any Prime minister who was a leader of the coalition government in India?

Ans. \_\_\_\_\_

27. Which two titles is banned by Constitution of India?

Ans. \_\_\_\_\_

28. Which two points must be checked before buying any item?

Ans. \_\_\_\_\_

29. Who is the brand ambassdar of Polio –(a social advertising)?

Ans. \_\_\_\_\_

30. Name the brand ambassdar of Social advertising of Swach Bharat Abhiyaan.

Ans. \_\_\_\_\_

31. Write difference between compact and dispersed settlement.

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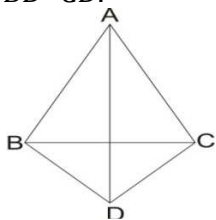
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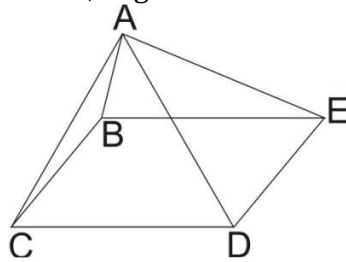
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**D.A.V. PUBLIC SCHOOL, KURUKSHETRA**  
**WINTER ASSIGNMENT**  
**CLASS : VII**  
**SUBJECT : MATHEMATICS**

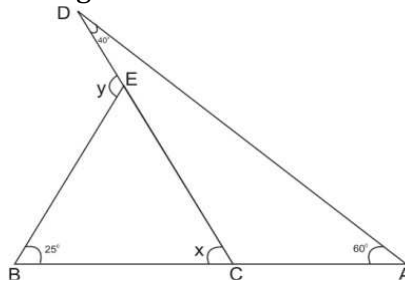
1. Compute the following division :  
 $14.14 \div 0.14$
2. Write  $3.5 \times 10^{-4}$  in usual form.
3. Express  $(6.2)^5 \div (\frac{1}{6.2})^3$  in the exponential form.
4. Solve the equation :  
 $-3(4x-1) = 5-(2x+3)$
5. What is the side included between the angles B and D of  $\Delta BCD$ ?
6. The area of a rhombus is  $108\text{m}^2$ . If one of its diagonal is  $12\text{m}$ , find the other diagonal.
7. Find the area of a circle of diameter  $6.3\text{m}$ .
8. The base of a parallelogram is twice its height. If the area of the parallelogram is  $512\text{cm}^2$ , find the base and height.
9. How many lines of symmetry will a kite have? Draw the lines of symmetry of a kite?
10. The point of concurrence of the medians of a triangle is called \_\_\_\_\_.
11. Simplify the following expression :  
 $-5.7 + 13.009 - (2.79 - 3.25)$
12. Find the value of x  
 $(\frac{5}{6})^{-3x-1} \div (\frac{5}{6})^{-1} = [(\frac{5}{6})^{-1}]^{-2}$
13. By what number should  $(-343)^{-1}$  be divided so that the quotient may be equal to  $(7)^{-2}$ .
14. Two equal sides of an isosceles triangle are each  $2\text{cm}$  more than thrice the third side. If the perimeter of triangle is  $67\text{cm}$ , find the lengths of the sides.
15. In a class of  $49$  students, number of boys is  $\frac{2}{5}$  of the girls. Find the number of girls in the class.
16. In figure, ABC is an isosceles triangle in which  $AB=AC$ . Also D is a point such that  $BD=CD$ . Prove that AD bisects  $\angle A$  and  $\angle D$ .



17. A rectangular piece of ground is 45m long and 30m wide. It has two roads each 1m wide, running midway within it, one parallel to the length and the other parallel to the breadth. Find the area of the roads. Also calculate the area of the remaining ground.
18. Find the area of a right triangle whose hypotenuse is 13cm and one side is 15cm.
19. The radii of two circles are in the ratio 2:3. What is the ratio of their circumferences?
20. Name all the vertices, edges and faces of the given pyramid.



21. Construct a triangle ABC in which  $AB = 6\text{cm}$ ,  $BC = 4.5\text{cm}$  and  $AC = 5.9\text{cm}$ . Also construct perpendicular bisectors of side AB.
22. Find  $x$  and  $y$  in the given figure.

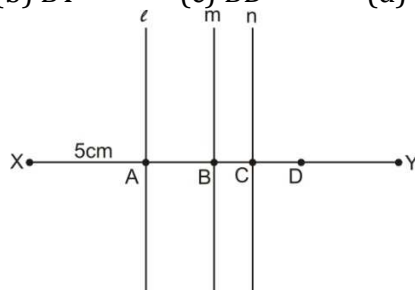


23. The area of a circle is equal to the area of a rectangle with sides 112m and 88m respectively. Find the circumference of the circle.
24. (a) Solve the equation :  

$$2x - 3 = \frac{3}{10}(5x - 12)$$
 (b) Write  $(3.5 \times 10^5) \times (6.0 \times 10^{-2}) \div (4.0 \times 10^2)$  in the form of  $k \times 10^n$ , ( $1 \leq k < 10$ )
25. An oblong garden measures 60m by 55m. From the centre of each side, a path 2m wide goes across to the centre of the opposite side. Find the area of the paths.

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1. Without actual division determine whether the rational number  $\frac{126}{45}$  is terminating or non-terminating decimal representation.
2. Express  $-3\frac{2}{100}$  as a decimal number.
3. Find the value of x if  $\left[\left(\frac{2}{9}\right)^4\right]^{-8} = \left(\frac{2}{9}\right)^{2x}$
4. Simplify  $3^{-2} - \left(\frac{5}{2}\right)^{-1}$
5. Solve the equation  $\frac{3}{5}x - 4 = 11$
6. Find two consecutive positive integers whose sum is 47.
7. If  $\triangle PQR \cong \triangle MNT$ , fill in the blanks to make the statement true:  
 (a)  $QR =$  \_\_\_\_\_ (ii)  $\angle P =$  \_\_\_\_\_ (iii)  $PR =$  \_\_\_\_\_
8. The altitude of a parallelogram corresponding to a base of length 16cm is 15cm. Find the area of the parallelogram.
9. The area of a rhombus is  $119\text{cm}^2$  and its perimeter is 56cm. Find its altitude.
10. Find the base of a triangle whose area is  $0.56\text{dm}^2$  and altitude is 4cm.
11. Find the radius of a circle whose circumference is 66m. Also find the area of the circle.
12. A 44cm long wire is bent to form a circle. Find the diameter of the circle.
13. Write any two letters of English alphabet each having  
 (a) One line of symmetry  
 (b) Two lines of symmetry  
 (c) No line of symmetry
14. How many lines of symmetry will the following have :  
 (a) A square            (b) A rectangle            (c) Isosceles triangle            (d) Circle  
 (e) Parallelogram    (f) Rhombus            (g) Regular heptagon
15. l, m and n are the lines of symmetry of the line segments. XB, XY and BD respectively. If  $XA = 5\text{cm}$ , find the lengths of:  
 (a) AB            (b) BY            (c) BD            (d) CD



16. How many vertices, edges and faces will a cuboid have? What is the shape of its faces?

17. The length of a rectangle is 12cm and its diagonal is 13cm. What is its perimeter?
18. In an isosceles triangle, the base angle is twice as large as vertex angle. Find the angles of the triangle.
19. Construct a triangle ABC in which  $\angle C=90^\circ$ ,  $\angle A = 45^\circ$  and  $BC = 5\text{cm}$ .
20. The diameter of the wheel of a car is 35cm. How much distance will it cover in 1000 revolutions.
21. A path 1m wide is built inside a square park of side 30m along its sides. Find the area of the path. Calculate the cost of constructing the path of the rate of Rs. 70 per  $\text{m}^2$ .
22. A rectangular plot of land is 300m long and 250 broad. It has two roads, each 3m wide running midway within it one parallel to the length and other parallel to the breadth. Find the area of the roads.
23. Find the area of the square that can be inscribed in a circle of radius 10cm.
24. A sum of Rs. 800 is in the form of denominations of Rs. 10 and Rs. 20. If the total number of notes is 50, find the number of notes of each type.
25. Simplify and express the result as a rational number in the lowest form:

$$\frac{0.4 \times 0.04 \times 0.005}{0.1 \times 10 \times 0.001} - \frac{1}{5} + \frac{3}{2}$$

## ENGLISH ASSIGNMENT

1. Read the following passage care fully:

A. Now answer the following questions briefly:

A Culture takes its form after it has undergone a process of growth over a period of time. This time may extend over centuries or over millennia. As the waves from rivulets or a river deposit the fine and rich alluvial matter alongside its banks and make the bank-side land fertile, so also the surge of wisdom from the family, the religion, the philosophy and many more sources, deposits layer upon layer and makes the family or the social soil rich and fertile for the growth of the succeeding generations. This social and family soil, formed of fine deposit of reflections, observations, experiences, reforms and practices of great people is congenial for growth and is called Culture. As bees from a honeycomb move and flit from flower to flower, take essence from them and form tasteful and nourishing honey, even so do the sages, the seers, the thinkers, the philosophers and men of wisdom or ordinary people, who have a developed and keen sense of observation. They leave

some nourishing honey of utterances, experiences, useful practices and understanding of many a natural phenomenon and these together make a Culture.

1. How does a culture take its form ?
2. What do you mean by the social soil ?
3. How is the social soil made rich ?
4. What role do men of wisdom play in making of culture?

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**B. Now complete the following sentences :**

1. A culture takes time to \_\_\_\_\_
2. Experiences, reforms, observations and practices of great people play a measure role in \_\_\_\_\_
3. Bees flit from flower to flower to \_\_\_\_\_
4. The great man's experiences and utterances have been compared to \_\_\_\_\_

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**C. Find words from the above passage that mean the same as the following:**

1. pleasant / suitable
2. healthy

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2. Read the following poem carefully.

**ODE ON SOLITUDE**

Happy the man whose wish and care  
A few paternal acres bound,  
Content to breathe his native air  
In his own ground,  
Whose herds with milk, whose fields with bread  
Whose flocks supply him with attire ;  
Whose trees in summer yield him shade.  
In winter fire.  
Blest, who can concernedly find  
Hours, day, and years, slide soft away  
In health of body, peace of mind.  
Quiet by day.  
Sound sleep by night : study and ease  
Together mixt, sweet recreation.  
And innocence, which most does please  
With meditation.  
Thus let me live unseen, unknown.  
Thus unlamented let me die;  
steal from the world, and not a stone  
fell where I lie.

**Alexander Pope**

Now answer the following questions by choosing the correct options given below:

1. 'Paternal acres' means

- (a) house of parents (b) orchard owned by father
- (c) inherited land (d) farmhouse of father.

2. 'Native air' applies to

- (a) air of mother's house (b) mother's love and care
- (c) father's house (d) atmosphere of one's birthplace.

3. One is blessed who

- (a) is free from worries (b) can buy everything he wishes
- (c) can rule the world at his own (d) can earn huge property.

4. According to the poet, happy is the man who

- (a) is content with all what he has (b) is most powerful in the world
- (c) is the wisest one (d) is the wealthiest one.





4. Write a speech to be delivered in the school assembly on "Unity in Diversity".

5. Read the following telephone conversation between Meghna and Hemant . Then as Hemant, write a message for Ishani in not more than 40 words :

MEGHNA : Hello! This is Meghna speaking. Can I talk to Ishani, please?

HEMANT : Hi Meghna! I 'm Hemant, Ishani's brother? I'm sorry, she is not at home right now. Can I take a message, please ?

MEGHNA :Actually, I wanted to know why Ishani didn't come to school today?

HEMANT : She was little unwell in the morning. But she is fine now.

MEGHNA : Oh, I see! One thing more. Could you please inform her that since tomorrow is Founder's Day, we do not have to go to school. We must reach Manik Shaw Auditorium at 3 p.m sharp.

HEMANT : Don't worry, I'll convey your message.

MEGHNA : Thank you. Bye!

## GRAMMER

6. *Fill in the blanks with the verb in agreement with the subject :*

1. A pack of wolves \_\_\_\_\_ howling ( is / are)
2. My brother \_\_\_\_\_ neatly. ( write / writes)
3. \_\_\_\_\_ you know my address. (know / knows)
4. One of the students \_\_\_\_\_ very shy. ( is / are)
5. Dogs \_\_\_\_\_ at intruders. ( bark / barks )
6. Tom and John \_\_\_\_\_ best friends. ( is / are )
7. The purse that you gave me \_\_\_\_\_ made of pure leather. ( is / are )
8. Each girl \_\_\_\_\_ an umbrella. ( bring / brings )
9. Bread and butter \_\_\_\_\_ liked by all. ( is / are )
10. Sheep \_\_\_\_\_ us wool. (give / gives )

7. *Fill in the Conjunctions.*

1. I shall see you tomorrow \_\_\_\_\_ the day after.
2. I did not go to school \_\_\_\_\_ I was ill.
3. He was \_\_\_\_\_ fined \_\_\_\_\_ degraded.
4. His condition became bad, \_\_\_\_\_ he was taken to hospital.
5. Stay here \_\_\_\_\_ I come back.
6. He spoke \_\_\_\_\_ loudly \_\_\_\_\_ everyone was surprised.
7. She was so happy \_\_\_\_\_ she started jumping.
8. I wrote to him , \_\_\_\_\_ he did not reply.
9. Donot move \_\_\_\_\_ the doctor arrives.
10. \_\_\_\_\_ he is ill, he attended the meeting.

## LITERATURE

### 8. *Misspelt*

1. devasating \_\_\_\_\_
2. trubulent \_\_\_\_\_
3. impules \_\_\_\_\_
4. horid \_\_\_\_\_
5. exquisite \_\_\_\_\_
6. chuckeld \_\_\_\_\_
7. prudigal \_\_\_\_\_
8. alaft \_\_\_\_\_

9. *Write the word meanings :*

1. gait \_\_\_\_\_
2. fortune \_\_\_\_\_
3. misery \_\_\_\_\_

4. sly \_\_\_\_\_

5. pantry \_\_\_\_\_

**10. Forms of Verb**

<i>Base Form</i>	<i>Past Form</i>	<i>Past Participle Form</i>
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1. draw	_____	_____
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2. step	_____	_____
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3. carry	_____	_____
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4. hold	_____	_____
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5. fall	_____	_____
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6. stretch	_____	_____
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7. reply	_____	_____
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*Write the answers :*

1. RamSingh's system has three inbuilt principles. What are they ?

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2. What was RamSingh programmed to do ?

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3. According to the soldier what is the special quality of the stones ?

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4. What comments do the villagers make about the taste of the soup ?

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5. Name the poet of the poem

(i) The spider and the fly (ii) Friends and flatterers

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*Value Based Question :*

(10). Though times don't last but tough people do. How could the soldier ensure that he was disheartened at all ?

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*11. Vocabulary Pages :*

1. Write the words which mean the same as :

(1) composed \_\_\_\_\_ (iii) a pair \_\_\_\_\_

(ii) uncivilised \_\_\_\_\_ (iv) huge \_\_\_\_\_

(v) a process of producing copies. \_\_\_\_\_

*(ii) Fill in the blanks :*

(i) Her \_\_\_\_\_ has recommended a bypass surgery.

(ii) She took her ailing kid to a \_\_\_\_\_