



### ADMISSION TEST (SAMPLE PAPER)

#### Subject: English (10 marks)

#### Reading Skill

Q1. Read the following passage carefully:

Finding food in winter is difficult for most animals when various sources of food like insects or plants are not available in plenty. It is during this time that most animals cope with the lack of food by hibernating.

Hibernation is that deep sleep taken by certain animals that helps them not to waste energy so that they can survive the winter without much food. An animal's body temperature falls during hibernation. The heart beat and breathing slows down, so it saves energy.

Hibernating animals prepare for winter by eating more food than they need. They store the food as body fat. This fat is used as energy when they sleep. The fat is formed in patches near the animal's brain, heart and lungs. These patches send a quick boost of energy to warm these organs when the animal's wake up.

Fish, bear, lizard, frogs and turtles are a few examples of hibernating animals. They have no means to stay warm in the winter season. They take shelter under logs, stones and piles of dry leaves. The animals move downwards to the bottom of lakes and ponds. Some even burrow into the mud to avoid the cold winter. Insects can hibernate as well. To keep warm, these insects find holes underground, inside trees or fallen logs. Some hibernating animals appear to be dead during this time.

Certain animals might wake up from their sleep and shiver in order to warm themselves when the temperature drops really low. Some hibernating animals might wake up for a little time to use their 'toilet rooms'. They might eat a little food if they can find any.

Now on the basis of your reading of the passage, choose the correct option and tick the correct answer.

- (a) An animal's body temperature \_\_\_\_\_
- (b) Hibernating animals prepare for winter \_\_\_\_\_
- (c) The fat is formed in patches \_\_\_\_\_

Q.2. Complete the paragraph by choosing the most appropriate option from the ones given below.

Butterflies are abundant (a)..... the Central African Republic. It (b)..... home for nearly 600 identified species. Many butterflies are brilliantly coloured (c)..... small while some are as big as saucers.

- |             |           |           |           |
|-------------|-----------|-----------|-----------|
| (a) (i) in  | (ii) from | (iii) for | (iv) into |
| (b) (i) has | (ii) is   | (iii) was | (iv) are  |
| (c) (i) and | (ii) if   | (iii) for | (iv) so   |

Q.3. The following sentence is not edited. There is one error in it. Write the incorrect word along with the correct word in the space provided. 1 mark

- (a) Research is an detailed study of a subject.

Incorrect word-..... correct word-.....

Q.4. Choose the correct indirect narration of the given sentence and underline/tick it.

- (a) Doctor said, "The patient died in the night".
- (i) The doctor said that the patient died in the night.
- (ii) Doctor says that the patient died in the night.
- (iii) Doctor said that the patient had died in the night.

Q.5. Change the sentence into passive voice.

- (a) I read the book.

Ans:.....

Q.6. In the following passage, one word had been omitted in each line. Write the missing word along with the words that come before and after it. The first one has been done as an example.

You will be glad to that I have filled up the NDA form.  
The entrance test scheduled for 15th of June.

Missing		
Before	Word	After
a) to	know	that
b).....	.....	.....

**Subject: Hindi (10 marks)**

प्र— निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए बहुवैकल्पिक प्रश्नों के उत्तर दीजिए 1

जल और मानव बड़ी नदियों के किनारे ही हुआ है।- जीवन का अत्यंत घनिष्ठ है। विश्व की प्रमुख संस्कृतियों का जन्म बड़ी-बचपन से ही हम जल की उपयोगिता शीतलता और निर्मलता के कारण उसकी ओर आकर्षित होते रहे हैं। हम जलाशयों को , नदियों और झीलों में तैरकर , उसमें तैरने के लिए आज सर्वत्र सहस्रों व्यक्ति प्रतिदिन सागरों , देखते ही मचल उठते हैं मनोविनोद करते हैं और साथ ही अपना शरीर भी रखते हैं। स्वच्छ और शीतल जल में तैरना तन को स्फूर्ति ही मन को शांति भी प्रदान करता है।

तैराकी आनंद की वस्तु होने के साथ साथ हमारी आवश्यकता भी है। प्राचीनकाल में आदमी को तैरकर ही नदियों को पार-करना पड़ता था। किंतु तैरने के लिए आदिम मनुष्य को निश्चय ही प्रयत्न और परिश्रम करना पड़ेगा क्योंकि उसमें अन्य , प्राणियों की भाँति तैरने क्षमता नहीं है। जल में मछली आदि जलजीवों को स्वच्छंद विचरण करते देख मनुष्य ने उसी प्रकार झीरे उसने इस कार्य में इतनी निपुणता प्राप्त कर ली कि आज तैराकी एक- तैरना सीखने का प्रयत्न किया और झीरे कला के रूप में गिनी जाने लगी।

- क) तैरीकी से लोगों को क्या लाभ मिलता है?
- ख) जल और मानव-जीवन का क्या संबंध है?
- ग) तैराकी आनंद की वस्तु के साथ-साथ किस प्रकार हमारी आवश्यकता भी है?
- घ) आदिम मानव को तैरने की प्रेरणा किससे मिली होगी?
- ङ(प्रस्तुत गद्यांश के लिए उपयुक्त शीर्षक लिखिए।

प्र- 2'रावण' शब्द का पर्यायवाची है-

- i) प्यार
- ii) दशानन
- iii) कान
- iv) नीर

प्र 3-माता' शब्द का पर्यायवाची है-

- i) शिशु
- ii) जननी
- iii) नारी
- iv) हिरण

प्र 4-'उपस्थित' शब्द का विलोम है-

- i) प्रतिकूल
- ii) अनुपस्थित
- iii) जटिल
- iv) विराग

प्र 5-'सार्थक' शब्द का विलोम है-

- i) अपना
- ii) निरर्थक
- iii) मीठा
- iv) अपमान

प्र-6निम्नलिखित शब्दों में से उस शब्द को चुनिए, जिसमें उचित स्थान पर अनुस्वार का प्रयोग हुआ है -

- i) कंचन
- ii) सगमं)
- iii) कघां)
- iv) भगं

**Subject: Mathematics (10 marks)**

1. Choose the correct answer for the following:

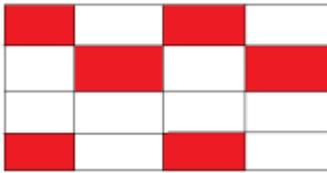
(i) Which of the following decimal is the greatest?

- a) 0.182
- b) 0.0925
- c) 0.29
- d) 0.038

- (ii)  $0.07 + 0.008$  is equal to:  
 a) 0.182                      b) 0.0925                      c) 0.29                      d) 0.038
- (iii) The ratio of 8 pencils to 24 pencils is:  
 a) 1:3                      b) 3:1                      c) 4:6                      d) 6:4
- (iv) 12 less than twice a number is written as:  
 a)  $12 - x$                       b)  $12 - 2x$                       c)  $x - 12$                       d)  $2x - 12$
- (v) The area of a square is 64 sq.m. What is the perimeter of the square?  
 a) 16 cm                      b) 8 cm                      c) 32 cm                      d) 24 cm

2. Round off 17.055 to the tenths place.

3. Find the ratio of the shaded portion to the unshaded portion in the following figure:



4. Jimmy earns Rs  $x$  per and he spends Rs  $y$ . How much does he save?

5. The area of a rectangle is 100 sq.m. If the breadth is 5m, find the length of the rectangle.

**Subject: Science (10 marks)**

- In which of the following, sprouting is not possible?  
 a. Black grams                      b. Moong Dal                      c. Rajma                      d. cooked rice
- Which of the following cannot be prepared from wood?  
 a. Chair                      b. wire                      c. Plough                      d. Wheels of a cart
- Which of the following statement is correct?  
 a. Current flows from positive terminal to negative terminal of a cell  
 b. Current flows from negative terminal to positive terminal of a cell  
 c. Current flows from top to the bottom of a bulb  
 d. Current flows from bottom to the top of a bulb.
- Which of the following statement is wrong?  
 a. Light travels in a straight line                      b. Light travels in a curved line  
 c. Light travels in a round path                      d. Light never travels in a rectilinear path.
- Which of the following is not a characteristic of a living organism?  
 a. They can reproduce                      b. They can germinate  
 c. They can respire                      d. They can respond to stimuli
- Why should we not join the two terminals of the electric cell without joining them through a switch?
- Give reason – “During eclipse we should never look directly at the sun”.
- Name two aquatic plants.
- What is lateral inversion?
- Write one difference between carnivore and omnivore.