## English (40)

1. Read the passage and answer the questions follow.

India has deployed aerial drones over Kaziranga National Park in Assam state in a bid to protect endangered one-horned rhinos from poachers. Kaziranga chief NK Vasu said the maiden drone flight on Monday was a "milestone in wildlife protection".

The park is home to two-thirds of the world's one-horned rhino population and also has a large number of elephants, tigers and other wildlife. In recent months, rhinos have been killed in large numbers by poachers. Drones and other successful anti-poaching measures have also been used by the WWF in nearby Chitwan National Park in Nepal, where the hunting of one-horned rhinos has been drastically reduced."The Unmanned Aerial Vehicle (UAV) was up in the sky for 15 minutes. It landed safely," Mr.Vasu said. "We hope this technology will go a long way in effective surveillance of the park."Assam Forest Minister Rockybul Hussain said this was the first time that drones had been used for wildlife protection anywhere in India."The UAVs will deter poachers who will now have to reckon with surveillance from air as wells on ground," Mr Hussain said.The minister said, "it would now be possible to keep an eye on the remotest parts of the 480 sqkm (185 sq miles) park" "The drones can fly a pre-programmed route at a maximum elevation of 200m (656ft) for up to 90 minutes" officials say.

They are light enough to be launched by hand and will be able to take images of the ground below with a still or video camera, they add. Twenty-two one-horned rhinos were killed in Kaziranga by poachers last year.In the first three years of this month, 16 rhinos have been killed, triggering a furore in Assam where the animal is seen as a symbol of regional pride and is also valued for drawing tourists to the state. A rhino census in Kaziranga last month said that there were about 2,300 of the animals in Kaziranga.

BBC NEWS

Read the passage and answer the following questions:

a) This passage states that drones .................... And not only for wars between nations. **1**

b) The drones will be able to do two things: they are **2**

1)..............................................

2)..............................................

c) 22 one horned rhinos killed by poachers means...................................... **1**

d) The introduction of drones for surveillance is a -----------------------measure. (one word) **1**

e) The author states that there has been a public outburst because 16 rhinos were killed-the term he uses is----------------- **1**

f) What was the purpose of UAV? **2**

2. Read the passage and answer the questions follow.

Pleasure and sorrow, being twin faces of a coin, suffer the sign of commend and condemn since long before the historic ages. Warriors outcry with victory decorated with deep throat laugh has marked the sentimental coverage of battle field victory. Baffled war victims, war widows, dependents are the oppressed classes. They seek relief against those causing sabotage to their established settlement.

The history of literature really began long before man learned to write. Dancing was the earliest of the arts. Man danced for joy round his primitive camp fire after the defeat and slaughter of his enemy. He yelled and shouted as he danced and gradually the yells and shouts became coherent and caught the measure of the dance and thus the first war song was sung. As the idea of God developed, prayers were framed. The song and prayers became traditional and were repeated from one generation to another, each generation adding something of its own. As man slowly grew more civilized, he was compelled to invent some method of writing by three urgent necessities. There were certain things that were dangerous to forget and which, therefore, had to be recorded.

It was often necessary to communicate with persons who were some distance away and it was necessary to protect one's property by making tools and so on, in some distinctive

manner. So man taught himself to write and having learned to write purely for utilitarian reasons, he used this new method for preserving his war songs and his prayers. Of course, among these ancient people, there were only a very few individuals who learned to write, and only a few could read what was written.

**1.** Linguistically commend and condemn refers to _____.   **1**
(a) Physical grudges against sorrows      (b) A temporary verbal communication
(c) Slip of tongue with praise and denounce    (d) A communal fury against the joys

**2.** The correct statement as per the passage is :   **1**
(a) Few could write among ancient people. (b) All could write among ancient people.
(c) Many could read among ancient people.    (d) Not many could read what was written.

**3.** Before man invented writing   **1**
(a) Literature was passed on by word of mouth    (b) Prayers were considered literature
(c) Literature was just singing and dancing    (d) all of the above

**4.** According to the passage, dance originated from:   **1**
(a) Literature      (b) Yelling and shouting    (c) Prayers      (d) War

**5.** A word in the passage that stands for ancient is   **1**
(a) Primitive      (b) Traditional      (c) Coherent      (d) Utilitarian

**6.** When did the history of literature begin?   **2**

**7.** What did the man teach himself?   **1**

**3.** You are Shubhangi Dutta, the monitor of class X of GTB School, Sarojini Nagar, New Delhi. Write a letter to the principal asking him to arrange for special classes in Mathematics.   **6**

**4.** Write an article in about 100-120 words an "Importance of value based education".   **6**

**5.** The following passage has not been edited. There is one error in each line. Write the incorrect word and the correction in your answer sheet as given below, against the correct blank number.   **4**

|  | Incorrect | Correct |
|---|---|---|
| e.g.,    The next day during an break | an | the |
| (a) when all the teacher and students | ............... | ............... |
| (b) was eating their snacks, the mother | ............... | ............... |
| (c) left the school building hurrily. | ............... | ............... |
| (d) The boy saw him walking | ............... | ............... |
| (e) quickly from the school gate | ............... | ............... |
| (f) when he was drank water after | ............... | ............... |
| (g) his meal and wonder where | ............... | ............... |
| (h) his mother is going | ............... | ............... |

**6.** Rearrange the following words/phrases into meaning.fu5sentences.   **4**
(i) young learners/as a/ body/ formidable/often regard/grammar! of rules
(ii) learning/ and pleasurable/this book/makes/unforced/of grammar
(iii) The/on/forests/the/industry/oil/depends
(iv) do/get/the/forests/from/whatlwe/products/?

**7.** Read the conversation given below and complete the following passage by filling in the blank places appropriately. Do not add any new information.   **4**
**Seema** Are you going to attend Deepti's marriage?
**Preeti** I have an interview tomorrow. So I'll not be able to go.
**Seema** The function is at 12 o'clock.
**Preeti** Then, maybe I can come after the interview.
**Seema** That is a good idea.
Seema asked Preeti whether (a) ........... Deepti's marriage. Preeti replied that (b) ........... so (c) ........... Seema said that the function was at 12 o'clock. Preeti hoped that she (d) ...........which Seema thought was a good idea.

### Mathematics (30)

**8.** A line intersect the Y-axis and X-axis at the points P and Q, respectively. If (2, - 5) is the mid-point of PQ, then find the coordinates of P and Q.   **1**

**9.** A point is 26 cm away from the centre of a circle and the length of tangent drawn from P to the circle is 24cm. Find the radius of the circle.   **1**

**10.** The area of a circle is 2464 cm$^2$. Find the diameter of circle   **1**

11. Write the empirical relationship between the three measures of central tendency.   **1**
12. Find the sum of probabilities of all the elementary events of an experiment.   **1**
13. If α and β are zeroes of the polynomial $x^2 - p(x+1) + c$ such that $(\alpha+1)(\beta+1) = 0,$ then find the value of c.   **2**
14. Find the 6th term from the end of the AP: 17, 14, 11, ... , - 14.   **2**
15. An observer, 1.5 m tall, is 20.5 m away from a tower 22 m high. Determine the angle of elevation of the top of the tower from the eye of the observer.   **2**
16. The difference between two number in 26 and one number is three time the other. Find them.   **3**
17. The altitude of a right angled triangle is 7 cm less than its base. If the hypotenuse is 13 cm long, then find the other two sides.   **3**
18. In ΔABC, right angled at B, if $\tan A = \dfrac{1}{\sqrt{3}},$ then find then value of   **3**

    a) sinA cosC + cosA sinC
    b) cosA cosC – sinA sinC.
19. Prove that the ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.   **5**

20. Prove that opposite sides of a quadrilateral circumscribing a circle subtend supplementary anlges at the centre of the circle.   **5**

### (Social Science 30)

21. What is national income?   **3**
22. What are secondary activities? Explain with examples.   **3**
23. What is GDP? Who is responsible for collecting data for the GDP in India?   **3**
24. State any three characteristics of money.   **3**
25. "The system of advance proved harmful for the wearers." How?   **3**
26. "Minerals are Indispensable part of our lives," support this statement with suitable examples.   **5**
27. What is consumer exploitation? What are the various ways in which a consumer can be exploited?   **5**
28. What do you mean by public facilities? Why are they important? Name two public facilities available in India.   **5**