# SAEVUS Eco-Achievers Olympiad

Official Knowledge Partner

भारतीय वन्यजीव संस्थान
Wildlife Institute of India

In association with

classmate

# Instructions

**NEW Marking Scheme and Evaluation Format**

**Total marks for the examination: 70**

**Total time duration for the examination:**
1 hour and 30 minutes

**Breakup of questions:**

**SECTION I: OBJECTIVE**

**Duration: 1 hour**
**44 MCQ QUESTIONS:** Each question bears 1 mark each, there are 6 Leaf marked questions which bear 2 marks each.

**Total marks for SECTION I is 50**

These 6 sub-heads for SECTION I are as follows:
**Flora – Plant life**; 9 questions including 1 Leaf question
**Fauna – Animal life;** 9 questions including 1 Leaf question
**Terra – Geography and environment ;** 9 questions including 1 Leaf question
**Aqua – Aquatic life and water bodies;** 4 questions including 1 Leaf question
**thInQ – Logical reasoning;** 4 questions including 1 Leaf question
**Mixed Bag – General awareness on environment and natural world;** 9 questions including 1 Leaf question

All questions are multiple choice questions with four options – A, B, C and D Mark the correct or most appropriate answer in the OMR (answer) sheet.

**Using a dark pencil or a dark-inked pen, colour the correct option completely,**
**as shown on the OMR (answer) sheet.**

**SECTION II: SUBJECTIVE**

**Duration: 30 minutes**
1 Picture Composition

**Total marks for SECTION II is 20**

Turn over the OMR sheet provided to you and write in the space provided.
You can attach an extra sheet signed by your invigilator if you need more space.

You can only use a black pen to write the composition. Both gel or ball point pens are allowed.

# SECTION I Duration: 1 hour Marks: 50

## Flora

**1. The largest seed in the plant kingdom is an endangered species, found only on few islands in the Seychelles. Its scientific name comes from the Latinized name for Louis, after king Louis XV of France. The common name comes from the external appearance, of it looking like 'two' seeds of another common species of tree with large seeds. What is this plant called?**
A) Coupled jackfruit
B) Double jackfruit
C) Double coconut
D) Coupled coconut

**2. What connects a yellow-flowered acacia, an invasive species *leucaena leucocephala* , a brand of toothpaste and by a playback singer-turned-politician who's now a minister of State for heavy industries?**
A) Meswak B) Vajradanti
C) Babul D) Himalaya

**3. Below are plants and the alcoholic drink made from them –**
A) Potato – (i) Tequila
B) Agave – (ii) Feni
C) Cashew – (iii) Vodka
D) Barley – (iv) Beer
What is the right order?
A) A – (i); B – (iii); C – (iv); D – (ii)
B) A – (iii); B – (i); C – (ii); D – (iv)
C) A – (i); B – (iii); C – (ii); D – (iv)
D) A – (iv); B – (i); C – (ii); D – (i)

**4. Strobilanthes is a genus with about 350 species found in Asia and Madagascar. We know them by their flowers which come in different shades of blue, purple and pink. They have a curious feature of flowering all together and also seeding together (known as masting), and some of them die soon after flowering. Two of these species, S. callosa and S. kunthiana are known locally for flowering in 7 and 12 year cycles respectively. What are they called?**
A) Karvi and Kurunji B) Kampooty and Kapant
C) Kurunji and Karvi D) Kapant and Kampooty

**5. Match the term with its definition –**
**A) Endemic species – (i) species living outside native range after assistance from human activity**
**B) Introduced species– (ii) wild species that benefit from association with humans**
**C) Synanthropic species – (iii) species unique to a defined geographic region**
**D) Invasive species – (iv) introduced species that spreads enough to cause harm to ecosystem**
**What is the right order?**
A) A – (i); B – (iii); C – (iv); D – (ii)
B) A – (iii); B – (i); C – (ii); D – (iv)
C) A – (i); B – (iii); C – (ii); D – (iv)
D) A – (iv); B – (i); C – (ii); D – (i)

**6. *Aquilaria agalloch* is a fragrant wood when the wood inside is infected by a mould and the tree responds to it by creating a fragrant resin. It is one of the most valuable natural products in the world, fetching 100,000 USD for just a kg. Found in South and Southeast Asia, it is increasingly being cultivated in the wetter parts of India as well. What is the common name for this tree, on which finds mention in the Vedas as well?**
A) Magarwood B) Agarwood
C) Rosenwood D) Prerosenwood

**7. Which of the following is an alternative material for making paper?**
A) Panda excrement B) Sheepskin
C) Hemp D) All of the above

**8. In 288 B.C. King Tissa planted a fig tree sapling, thought to have derived from Buddha's Tree of Enlightenment, in the sacred city of Anuradhapura. Called the Sri Maha Bodhi, it is the oldest living tree of known planting date, and is venerated by Buddhist pilgrims in which country?**
A) Sri Lanka B) India
C) Thailand D) Cambodia

**9. The Chinese gooseberry is better known worldwide as the kiwifruit—the name New Zealanders gave it to honour their national bird. Original to China, where it is considered the national fruit, it is native to which province?**
A) Sichuan B) Shaanxi
C) Shandong D) Henan

## Fauna

**10. Geckos are lizards with enlarged feet with very small pads on them that help them walk, often upside down, without falling. What kind of force helps them do that?**
A) Nuclear force B) Van der Waal force
C) Centrifugal force D) Gravitational force

**11. "We used to have a great spot in India going out after _____ with Hindu babies for bait. The baby wasn't baited on a hook… it couldn't toddle away or tumble into the river. From where did we get these babies for bait? From their mothers." – ex-officer in the British army. This gruesome practice in Sri Lanka and India was used to hunt which animal?**
A) Turtles B) Monitor Lizards
C) Pythons D) Crocodiles

**12. Identify the one type of bird that does not belong to the guild of the other three –**
A) Honeycreepers B) Vultures
C) Hummingbirds D) Sunbirds

**13. Identify the one type of bird that does not belong to the guild of the other three –**
A) Kites B) Plovers
C) Stints D) Snipes

**14. Which big cat species has the longest canine teeth in proportion to body size?**
A) African Lion B) Clouded Leopard
C) Jaguar D) Siberian Tiger

**15. What is the distinguishing feature of the cat genus Panthera?**
A) They can swim B) They can climb trees
C) They can roar D) They are large in size

**16. What is the world's southernmost mammal?**
A) Leopard Seal B) Weddell Seal
C) Minke Whale D) Orca

**17. Which is the Order of mammals with the maximum number of species in India?**
A) Rodents B) Primates
C) Even-toed ungulates D) Odd-toed ungulates

**18. Ia iohas the shortest scientific name among species that currently exist. It occurs in India, China and South-East Asia. What kind of a species is it?**
A) A species of cat
B) A species of bird
C) A species of bat
D) A species of frog

## Aqua

**19. Which of these is the deepest dwelling fish?**
A) Snailfish
B) Clownfish
C) Tuna
D) Sturgeon

**20. Every year, the Indian Meterological department (IMD) declares if a district is drought hit or not. What criteria does the IMD use?**
A) Less than 30% of normal rainfall
B) Less than 50% of normal rainfall
C) Less than 75% of normal rainfall
D) Less than 95% of normal rainfall

**21. Nohkalikai is the tallest plunge waterfall in India. In which state is it located?**
A) Meghalaya
B) Manipur
C) Mizoram
D) Madhya Pradesh

**22. When rivers meander extensively, it forms large loops. Often these loops get cut off from the main river channel and results in a lake. What are these lakes called?**
A) Oxbow lake
B) Disjunct lake
C) Bowox lake
D) Boomerang lake

## Terra

**23. It literally translates to 'old peak' in the Quechua language. Tucked away high in the Andes, this city was abandoned after the Spanish conquest. It remained unknown to Westerners until 1911. What unique work of human architecture is this?**
A) Machu Picchu
B) Christ of Redeemer
C) Vilcabamba
D) Salt flats of Bolivia

**24. In 1915, Alfred Wegner proposed the Continental Drift theory that changed the way we look at how are land arrangement on the planet came to be. But a more mechanistic theory replaced it in recent times. What is this theory called?**
A) Plate Dynamics B) Continental Tectonics
C) Plate Tectonics D) Continental Dynamics

**25. Just like animals, plants can also become fossils. This usually happens in trees, where all the plant cells are replaced by silica and other minerals that solidify in the exact same structure to form stone. What is this kind of 'wood' called, also the result of a spell in Harry Potter?**
A) Jinxed Wood B) Petrified Wood
C) Soporific wood D) Caterwauled wood

**26. The Altamira Caves have some incredible cave paintings, some as old as 35,600 years old. The charging bison depicted in the caves is an iconic image, and in the movie Agantuk by Satyajit Ray, this image inspires the protagonist to get inspired to become an anthropologist. In which West European country are these located?**
A) Portugal B) Spain
C) France D) England

**27. What anatomical character connects Spider monkeys, Howler monkeys and Woolly monkeys, but separates them from macaques and langurs?**
A) Woolly fur B) Prehensile tail
C) Booming voice D) Bald heads

**28. Which of these is not one of the three main rock types?**
A) Sedimentary B) Metamorphic
C) Igneous D) Basaltic

**29. Which solar system planets have rings?**
A) Saturn and Jupiter
B) Saturn, Uranus and Jupiter
C) Saturn, Uranus, Neptune and Jupiter
D) Saturn and Pluto

**30. What is the name of the most recent supercontinent?**
A) Rodinia
B) Gondwana
C) Pangea
D) None of the above

**31. This type of rock is formed due to high weathering (usually rainfall) and high iron content. Recently, a new frog species found only on these rock formations in coastal Karnataka were discovered and was given a species name of the rock. What kind of rock?**
A) Gneiss B) Granite
C) Shale D) Laterite

## thInQ

**32. Find the odd one out:**
A) State Bank of India
B) ICICI Bank
C) Bank of Baroda
D) Reserve Bank of India

**33. Statement: All Actors are Musicians. No Musician is a Singer. Some Singers are Dancers. Some Dancers are Musicians.**
Conclusions:
I: Some Actors are Singers.
II: Some Dancers are Actors.
III: No Actor is a Singer.
A) Only conclusion I follow
B) Only conclusion III follows
C) Both conclusions, I & III, follow

**34. In a queue, Shailaja is 10th from the front while Meenakshi is 25th from behind and Rekha is just in the middle of the two. If there be 50 persons in the queue, what position does Rekha occupy from the front?**
A) 20th B) 19th
C) 18th D) 17th

**35. Find the odd number in the series**
474, 414, 358, 310, 286,238
A) 358 B) 286
C) 310 D) 238

# Mixed Bag

**36. 2015 was the worst year ever in the number of environmental activists killed. The second highest was 33 in Phillipines. Which was the first?**
A) India
B) Saudi Arabia
C) China
D) Brazil

**37. Which of the following National Parks do NOT lie in the States mentioned?**
A) Nagarjunasagar Srisailam Tiger Reserve - Rajasthan
B) Sri Lankamalleshwara Wildlife Sanctuary – Andhra Pradesh
C) GundlaBramheshwara Wildlife Sanctuary – Andhra Pradesh
D) Mudumalai Wildlife Sanctuary – Tamilnadu

**38. Many species are named after the region in which they were first described. Which of these is NOT such a species?**
A) Malabar Trogon
B) Kollegal Ground Gecko
C) Jeypore Ground Gecko
D) Malabar Gliding Frog

**39. Which of these is not a species of Giraffe?**
A) Reticulated
B) Masai
C) West African
D) Congo

**40. What is group of owls called?**
A) Lok Sabha
B) Murmuration
C) Parliament
D) Congress

**41. Which of these is NOT a system in the human body?**
A) The Nervous system
B) The Endocrine System
C) The cellular system
D) The Skeletal system

**42. What is the word for an animal that is active at dawn and dusk?**
A) Diurnal
B) Crepuscular
C) Nocturnal
D) Matutinal

**43. What kind of animal is Platypus?**
A) Bird
B) Mammal
C) Reptile
D) Amphibian

**44. "We do not wish to impoverish the environment any further and yet we cannot for a moment forget the grim poverty of large numbers of people; Are not poverty and need the greatest polluters?" Who said this?**
A) Indira Gandhi
B) Rahul Gandhi
C) Sanjay Gandhi
D) Rajiv Gandhi

# SECTION II Duration: 30 minutes Marks: 20

## PICTURE COMPOSITION

Write what the picture is trying to say, a short description is given below. Marks will only be given for content and original expression and not for style, vocabulary or handwriting.

TEACHERS ARE REQUESTED TO EXPLAIN THE TOPIC TO JUNIOR CLASS STUDENTS

PRANAD PATIL

**ANIMALS WE LOVE TO HATE**

Rabbits, tigers, flamingoes, elephants, we love them all. They are sometimes called cute, sometimes majestic and sometimes colourful and elegant.But what about owls, bats, hyenas and vultures?Do we not find them spooky, deceitful or even mucky? But is this true? Do these animals not deserve be your friends as well? Do you know that some or rather all of these animals are actually useful for this planet? Tell us all you know about the animals we love to hate.

SAEVUS

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