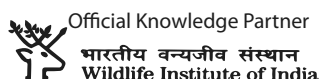
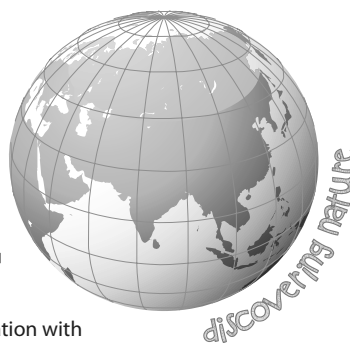


SAEVUS Natural Capital Olympiad

2017-2018
Set C



In association with

classmate

Conservation Partner
Hem Chand Mahindra Foundation

CLASS 7

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. Despite being green, why does the pitcher plant feed on insects?

- A. The plant is grown in areas where it never receives sunlight
- B. The soil in which the plant grows has poor nutrition content
- C. The plant does not have roots to absorb nutrition from soil
- D. The plant likes the taste of the insects

2. Which tiger Reserve forms a linking corridor for elephants migrating between the forests of Bhutan and Manas Tiger Reserve in Assam?

- A. Kaziranga
- B. Buxa
- C. Nemaha
- D. None of the above

3. Ficus krishnae is a variety of the banyan with its leaves closed in the form of a cup. What is the mythological significance that led to the name?

- A. Lord Krishna fought a war under this tree
- B. Lord Krishna was born under this tree
- C. Lord Krishna stole butter and used this leaf to eat from
- D. Lord Krishna used this leaf as a fan for Arjuna

4. Which of the following group of micro-organisms convert gaseous nitrogen into a form which plants can be absorbed by plants from the soil?

- A. Fungi
- B. Algae
- C. Bacteria
- D. Protozoa

5. What atmospheric gas do forest trees (green plants) take up and use in the process of photosynthesis?

- A. Oxygen
- B. Carbon dioxide
- C. Sulphur
- D. Nitrogen

6. C4 plants are different from C3 plants because they occur in drier parts of the world, can withstand more harsh temperatures and are more efficient in making food. However, they do not do well as trees and are mostly grasses. Where do these C4 grasses grow on Earth?

- A. Tropical rainforests
- B. Tropical Savannas
- C. Tropical Deserts
- D. Tundra

7. Rhizome is found in ____.

- A. Potato
- B. Doop grass
- C. Ginger
- D. Onion

8. Rara National Park is a protected area in the Himalayas. It is the smallest national park of which country?

- A. Tibet
- B. China
- C. India
- D. Nepal

9. Which out of the following are known as the amphibians of the plant kingdom?

- A. Thallophyta
- B. Bryophyta
- C. Tracheophyta
- D. Pteridophyta

Fauna



10. A major difference between antelopes and deer is that deers shed their antlers every year but antelopes have horns. Which of these is NOT an antelope found in India?

- A. Barasingha
- B. Nilgai
- C. Chinkara
- D. Chousingha

11. What is the favourite food of most chameleons?

- A. Fruits & Vegetables
- B. Insects & Spiders
- C. Nuts & Seeds
- D. Grass & Leaves

12. Match the adaptations of the polar bear with how they help the bear.

Adaptation	Use
a. White fur	1. Swimming and walking on ice
b. Wide and large paws	2. Camouflage
c. Strong sense of smell	3. Keeping warm
d. Two thick layers of fur and a layer of fat under the skin	4. Locating prey
A. a-2, b-1, c-4, d-3	
B. a-3, b-2, c-1, d-4	
C. a-4, b-3, c-1, d-2	
D. a-4, b-3, c-2, d-1	

13. This primitive species of deer has canines that protrude out. They are found across the Himalayas in India, and they are heavily hunted for a scent that is obtained from its scent glands. This scent, it's own type, gives it its name. What?

- A. Barking deer
- B. Brown-antlered deer
- C. Hog deer
- D. Musk deer

14. Most primates are social animals and live in groups. Which of the following is a communication method used by primates to communicate with others of their kind?

- A. Vocal sounds
- B. Touch
- C. Facial expressions
- D. All of the above



15. These nocturnal birds live in caves and eat fruits of oil palms in the night. They use echolocation, like bats, to find their way around in the dark. Found only in the northern part of South America, which birds are we talking about?

- A. Owl
- B. Kakapo
- C. Nightjar
- D. Oilbird

16. Match the following animals to their preferred prey/food

Animal	Preferred Prey
1) Pangolin	a) Bamboo
2) Honey Buzzard	b) Ants
3) Koala	c) Honey bee larvae
4) Giant Panda	d) Eucalyptus
A. 1-d, 2-c, 3-b, 4-a	
B. 1-b, 2-c, 3-d, 4-a	
C. 1-b, 2-a, 3-d, 4-c	
D. 1-a, 2-b, 3-c, 4-d	

17. While juvenile tarantulas are victims of predators such as praying mantises, scorpions and other spiders, which insect is the main predator of an adult tarantula?

- A. Hornet
- B. Beetle
- C. Mosquito
- D. Wasp

18. Which out of the following are present on a butterfly?

- A. Tail feathers
- B. Feathers
- C. Scales
- D. Bones



19. What happens during an equinox?

- A. Days are longer than nights
- B. Days and nights are of equal length
- C. Nights are longer than days
- D. Nothing special

20. What is the natural environment of a living organism called?

- A. Habitat
- B. Surroundings
- C. Environment
- D. Biosphere

21. Which of the following countries would fall in the Oriental realm?

- A. India
- B. Turkey
- C. Mongolia
- D. All the above

22. Honshu, Hokkaido, Kyushu and Shikoku – these four are the major islands in which island country?

- A. Phillipines
- B. Japan
- C. South Korea
- D. Indonesia

23. What is a small piece of rock travelling through space called?

- A. Space Stone
- B. Meteoroid
- C. Meteorite
- D. Asteroid

24. Which is the world's driest desert, located in Chile in South America? It receives rain about once in hundred years and yet there is life, due to daily moisture from dew and mist.

- A. Kalahari desert
- B. Atacama desert
- C. Patagonian desert
- D. Thar desert

25. The Asteroid Belt is present in between which two planets in our solar system?

- A. Earth & Mars
- B. Mars & Jupiter
- C. Jupiter & Saturn
- D. Saturn & Uranus

26. Guwahati is located on the banks of the river_____

- A. Ganga
- B. Godavari
- C. Sutluj
- D. Brahmaputra

27. Nanga Parbat peak is located in which of the following region?

- A. Jammu and Kashmir
- B. Sikkim
- C. Assam
- D. Uttarakhand



28. The world's largest natural structure is now 'dead'. It was more than a million years old, supported thousands of unique species, could be seen from space off the coast of Australia and died entirely due to human activities, mainly rising temperature of sea water. What structure?

- A. Pacific Rim
- B. Great Barrie Reef
- C. Mid-Atlantic ridge
- D. Mariana trench

29. Roughly 6% of the land area has been designated as protected areas to conserve their biodiversity and ecosystem services. What percentage of the ocean has been similarly protected?

- A. 1%
- B. 6%
- C. 10%
- D. 35%

30. Why are amphibians found in moist environments?

- A. Because they require a lot of water to drink
- B. Because moisture is required for them to be able to breathe through the skin
- C. Because they hide from predators in water
- D. Because moisture is required for their skins to remain shiny

31. Hippopotamus is an aquatic animal found in Africa.

Which word best describes the eating habit of a Hippopotamus?

- A. Carnivorous
- B. Omnivorous
- C. Herbivorous
- D. Scavenger



32. Find the odd one out:

- A. Strike
- B. Double fault
- C. Break point
- D. Deuce

33. A rectangle has length 15 cm and perimeter "P" cm. Which equation could be used to find width "w" of the rectangle?

- A. $P = 15 + w/2$
- B. $P = 15 - w$
- C. $P = 30 + 2w$
- D. $P = 30 - 2w$



34. These symbols *, @, #, & and % are used with the following meaning as illustrated below:

'A @ B' means 'A is greater than B'.

'A % B' means 'A is equal to B'.

'A # B' mean 'A is either equal to or smaller than B'.

'A & B' means 'A is either equal to or greater than B'.

'A * B' means 'A is smaller than B'.

Now assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true:

Statements: $P \& T$, $T * R$, $R \# B$

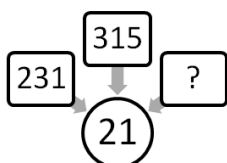
Conclusions:

I. $P @ T$

II. $B \& T$

- A. Neither conclusion I or II are true
- B. Both conclusions I and II are true
- C. Only conclusion I is true
- D. Only conclusion II is true

35. Mark the correct answer



- A. 499
- B. 399
- C. 299
- D. 389

Mixed Bag



36. Match the diseases with their mode of spreading

- | Disease | Mode of Spreading |
|-----------------|--|
| a) Rabies | 1) contaminated water or food |
| b) Tuberculosis | 2) bite of an infected animal, such as dog |
| c) Cholera | 3) airborne |
- A. a-1, b-3, c-2
 - B. a-2, b-3, c-1
 - C. a-3, b-1, c-2
 - D. a-1, b-2, c-3

37. India was the host for the 2011 World Environment Day celebrations. What was the theme that year?

- A. Green Economy: Does it include you?

- B. CO₂, Kick the Habit! Towards a Low Carbon Economy
- C. Forests – Nature at your Service
- D. Melting Ice – a Hot Topic?

38. Some items, like paper, can only be recycled 5-7 times, after which the fibre become too short and cannot form into new paper. How many times can glass be recycled?

- A. Once
- B. Twice
- C. 5-10 times
- D. Infinitely

39. Tigers and Lions never meet in the wild, and therefore don't mate. Humans have artificially managed to mate them. Portmanteaus are names made when two words are combined, for instance – gigantic and enormous becomes ginormous. Using these two facts, what do we call the cub of a male tiger and a female lion?

- A. Tiglon
- B. Tigeron
- C. Tlion
- D. Tigerlion

40. When was the Biosphere Reserve project initiated in India?

- A. 1986
- B. 1984
- C. 1989
- D. 1985

41. Tintin in the comic by Herge who had a pet called snowy. What kind of animal was the pet?

- A. Cat
- B. Dog
- C. Chicken
- D. Guinea pig



42. Several researchers have done great work by single-handedly bringing the species of their study into world view after decades of studies. Match the following researchers with the subjects of their study.

- | Researcher | Species studied |
|---------------------|---------------------|
| 1) Jade Goodall | a) Bengal Tiger |
| 2) Dian Fossey | b) Chimpanzee |
| 3) Douglas Hamilton | c) Mountain Gorilla |
| 4) Ullas Karanth | d) African Elephant |
- A. 1-d, 2-c, 3-b, 4-a
 - B. 1-b, 2-a, 3-d, 4-a
 - C. 1-b, 2-c, 3-d, 4-a
 - D. 1-a, 2-b, 3-c, 4-d

43. Which is India's largest freshwater lake?

- A. Sambhar lake
- B. Dal Lake
- C. Wular Lake
- D. Nakki lake

44. BCG is vaccine given to all infants in order to get immunity from_____

- A. Small pox
- B. Chicken pox
- C. Tuberculosis
- D. Polio

SECTION II Duration: 30 minutes Marks: 20

Write about what the cartoon is trying to say and why it is important for us in the world we live in.

Marks will only be given for content and original expression and not for style, vocabulary or handwriting.



SAEVUS

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Class 7_Answer Key_Set C

1. B	12. A	23. D	34. A
2. B	13. D	24. B	35. B
3. C	14. D	25. B	36. B
4. C	15. D	26. D	37. C
5. B	16. B	27. A	38. D
6. B	17. D	28. B	39. A
7. C	18. C	29. B	40. A
8. D	19. B	30. B	41. B
9. B	20. A	31. C	42. C
10. A	21. A	32. A	43. C
11. B	22. B	33. C	44. C