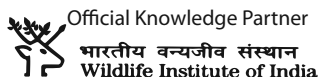


SAEVUS Natural Capital Olympiad

2017-2018
SET-A



In association with



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

thlnQ – 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. Tobacco is dangerous to health, either as cigarette or via direct consumption. It comes from the plant kingdom and is cured – the leaves are dried and powdered. What kind of plant is it?

- A) Mushroom
- B) Fern
- C) Tree
- D) Shrub

2. Nucleus is absent in which of the following options?

- A) Diatoms
- B) Algae
- C) Yeast
- D) Blue green algae

3. The pitcher plant derives its nutrition by trapping and digesting insects. What are such plants called?

- A) Autotrophs
- B) Insectivorous plants
- C) Non-vegetarian plants
- D) Secondary plants

4. Match the protected area with the state it is located in:

Protected Area	State
a) Great Himalayan National Park	1) Arunachal Pradesh
b) Mudumalai Tiger Reserve	2) Jammu & Kashmir
c) Dachigam National Park	3) Himachal Pradesh
d) Namdapha Tiger Reserve	4) Tamil Nadu
A) a-4, b-3, c-2, d-1	
B) a-4, b-3, c-1, d-2	
C) a-3, b-4, c-2, d-1	
D) a-4, b-2, c-3, d-1	

5. Green mould growing on stale bread is a type of algA) True or false?

- A) True
- B) False
- C) I don't know
- D) Sometimes it can be alga.

6. Plants adapted to arid conditions are called ____.

- A) Hydrophytes
- B) Xerophytes
- C) Halophytes
- D) None of the above

7. Which of the following is a product of photosynthesis?

- A) Sugar
- B) Carbon dioxide
- C) Minerals
- D) Xylem

8. What is the correct meaning of the word totipotent?

- A) Potential to grow into a tree
- B) Capable of giving rise to any cell type
- C) Capacity to grow in harsh conditions
- D) All of the above

9. What does the xylem help transport?

- A) Sperm cells

- B) Minerals
- C) Food
- D) Water

Fauna



10. Horses are now found wild in many pockets across Asia, although domestic ones are found across the world. The origin of horses however is in some other continent, from which it moved during the successive ice ages. Which continent?

- A) Australia
- B) Antarctica
- C) Africa
- D) North America

11. How many sets of teeth do elephants grow in their life time?

- A) Two
- B) Four
- C) Five
- D) Six

12. Which of the following animals is endemic to China?

- A) Tiger
- B) Asian Elephant
- C) Giant Panda
- D) Saltwater Crocodile

13. Is it true that the dumbo octopuses have rounded ears?

- A) Yes
- B) No
- C) There is no such octopus
- D) It is the name of a cartoon character only

14. The egg of an Ostrich is the biggest egg in the world.

About how large is it?

- A) 5-6 inches long
- B) 8-9 inches long
- C) 2-4 inches long
- D) 1-3 inches long

15. The common name for this wild sheep from the Himalayas is blue sheep. They occur in groups, are the main wild prey of snow leopards and when seen from far, appear bluish. What is the Indian name for it, by which it is more commonly known? (For the mountain goat, it is tahr)

- A) Goral
- B) Bharal
- C) Barasingha
- D) Chousingha

16. Native only to the rainforests of Borneo and Sumatra, this species is the most arboreal of all great apes. The Disney character King Louie was designed on this animal. What animal is this?

- A) Gorilla
- B) Gibbon
- C) Bonobo
- D) Orangutan

17. 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-a
- D) 1-a, 2-b, 3-c, 4-d

18. Flamingo feathers get their colours from the diet which mainly consists of _____

- A) Shrimp
- B) Nudibranch
- C) Fish
- D) Lobsters

Terra

19. Arrange the layers of the Earth in the correct order, starting from the innermost layer: Mantle, Outer Core, Crust, Inner Core.


- A) Crust, Mantle, Outer Core, Inner Core
- B) Inner Core, Outer Core, Mantle, Crust
- C) Mantle, Crust, Inner Core, Outer Core
- D) Inner Core, Outer Core, Crust, Mantle

20. Most of India's mining happens on a mineral rich plateau found in the Eastern India, which also has a large population of tribals and large forest cover. What is this plateau called?

- A) Vindhya plateau
- B) Chhota Nagpur plateau
- C) Coorg plateau
- D) Malwa plateau

21. Which among the following islands is a part of Africa?

- A) Madagascar
- B) Greenland
- C) Lakshadweep
- D) Hawaii

 **22. Mark the odd mountains amongst the following based on its location:**

- A) Mt. Gasherbrum
- B) Mt. Kilimanjaro
- C) Mt. K2
- D) Mt. Everest

23. The National anthem mentions two rivers and two mountain ranges. If the two rivers are Vindhyas and Himalayas, what are the two rivers?

- A) Yamuna and Kaveri
- B) Ganga and Brahmaputra
- C) Kaveri and Brahmaputra
- D) Yamuna and Ganga

24. The Ceylonese sub-region is a part of which realm?

- A) Australian
- B) Oriental
- C) Ethiopian
- D) Neotropical

25. What are mountains formed by the vertical breaking and

displacement of large areas called?

- A) Fold Mountains
- B) Volcanic Mountains
- C) Block Mountains
- D) Vertical Mountains

26. Prairies belong to which type of ecosystems?

- A) Desert
- B) Grassland
- C) Forest
- D) Mangrove

27. Ferns require _____

- A) Dry habitat
- B) Moist habitat
- C) Marsh habitat
- D) Aquatic habitat

Aqua

28. What is the difference between tortoises and turtles?

- A) Turtles have flippers while tortoises don't
- B) Turtles live in the sea while tortoises live on land
- C) Turtles have sharp snout while tortoise snouts are blunt
- D) There is no exact difference – some tortoises are more like turtles and some turtles more like tortoises

29. Which of the following directs the horizontal movement of water in the oceans?

- A) Coriolis Effect
- B) Wind
- C) Heating and cooling of water
- D) All of the above

 **30. The ancestors of which of the following aquatic creatures actually evolved on land?**

- A) Whale
- B) Shark
- C) Starfish
- D) Mudskipper

31. Which out of the following is the largest marine national park in the world?

- A) Natural Park of the Coral Sea
- B) Ross Sea in Antarctica
- C) South Georgia Marine Protected Area
- D) Coral Sea Commonwealth Marine Reserve

thInQ

 **32. Find the odd one out:**

- A) Barack Obama
- B) Abraham Lincoln
- C) Nelson Mandela
- D) George Washington

33. Arrange the given words in a meaningful sequence and then

choose the most appropriate option from below: Curd, Grass, Buttermilk, Milk, Cow

- A) Cow, Grass, Milk, Curd, Buttermilk
- B) Cow, Milk, Buttermilk, Grass, Curd
- C) Milk, Grass, Cow, Buttermilk, Curd
- D) Milk, Cow, Grass, Curd, Buttermilk

34. If 'paper' is called 'wood', 'wood' is called 'straw', 'straw' is called 'grass', 'grass' is called 'rubber' and 'rubber' is called 'cloth', what is furniture made up of?

- A) Paper
- B) Wood
- C) Straw
- D) Grass

35. Pen: Book :: Keyboard: _____

- A) Mouse
- B) Printer
- C) Monitor
- D) CPU

Mixed Bag



36. Arrange in the correct order in which food will pass through our body: stomach, oesophagus, mouth, intestine

- A) Oesophagus – Mouth – Stomach – Intestine
- B) Mouth – Stomach – Intestine – Oesophagus
- C) Mouth – Oesophagus – Stomach – Intestine
- D) Mouth – Stomach – Oesophagus – Intestine

37. It is impossible to see a natural dark sky at the night from most major cities of the world. Why does this happen?

- A) Because cities are always covered by clouds
- B) Because there are too many aeroplanes flying to and from the city, blocking view of the sky
- C) Because of the light pollution, created by excess artificial lighting used in big cities
- D) Because of gaseous pollutant released by factories around cities

38. 'The detective smelt a rat.' What does the phrase 'smelling a rat' mean?

- A) To smell something bad
- B) See something moving
- C) To suspect something
- D) Discover



39. The movie Free Willy is based on this large mammal in the oceans. Unlike the movie, it is an efficient and very intelligent predator that hunts fish, other whales and seals. They are often seen to play with their prey. Paint from boats has been accumulating in their bodies, and males are particularly affected. Which type of whale is it?

- A) Blue whale
- B) Humpback whale
- C) Killer Whale
- D) Great White Shark

40. Which Prime Minister of India launched the Project Tiger?

- A) Jawaharlal Nehru
- B) Indira Gandhi
- C) Rajiv Gandhi
- D) Atal Bihari Vajpayee

41. Born free is a movie about rearing and releasing cubs of a certain animal that is found in Africa. Based on a true story, some kind-hearted researchers rescued the cubs, reared it by hand and then released it in the wild. What animal, one of Africa's biggest predators found across sub-saharan africa and one of the big five animals to see in Africa. Which animal?

- A) Cheetah
- B) Leopard
- C) Jaguar
- D) Lion

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. In which out of the following place is the active volcano Kilauea located?

- A) Japan
- B) Hawaii
- C) Indonesia
- D) Philippines

44. Dry ice is _____

- A) Solid carbon monoxide
- B) Solid carbon dioxide
- C) Nascent oxygen
- D) Solid hydrogen

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 - Set A - Answer Key 2017_18

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