

# ANNUAL EVALUATION 2018- 2019

VIII

BIOLOGY

Time : 40 minutes

Maximum Score : 20

Answer all questions from 1 to 3. Each question carries 1 score

1. b) i,ii correct
2. ii) Robert. H. Whittaker : 5 kingdom classification
3. a) Budding is the method of reproduction in Hydra

Answer any 4 questions from 4 to 9. Each question carries 2 score (4x2=8)

4.
  - Eat the right type of food at regular intervals.
  - Never avoid breakfast.
  - Take the right quantity of food during the right time.
  - Include fruits and vegetables lentils etc. in the diet.
  - Avoid fried and grilled dishes.
  - Consumption of salt and sugar are to be minimised.
  - Avoid using bottled drinks, packed food items and colas. (any 4)
5. i)
  - A. Lion - tailed macaque ( Scientific name: *Macaca silenus*)
  - B. Nilgiri tahr (Scientific name: *Nilgiritragus hylocrius*)

ii) These organisms on the verge of extinction due to several reasons.

|    |            |                                                                                      |           |                                |
|----|------------|--------------------------------------------------------------------------------------|-----------|--------------------------------|
| 6. | a) ovaries |                                                                                      | c) uterus | d) Fallopian tube<br>(Oviduct) |
|    |            | b) The secretion of a fluid from the prostate gland helps in the movement of sperms. |           |                                |

7.
  - Muscular tissue: Movement of body
  - Endoplasmic reticulum: Conduction of materials
  - Ribosome: Proteins synthesis
  - Sclerenchyma: strength and support
- 8.

- b) Thus waste management is done at the source itself. In effect no waste remains.
- c) Biodiversity is conserved by growing native varieties.
  - The use of fertilisers and pesticides is reduced.
  - Diverse crops are grown in the same field. (Any two)

9.
  - a) Gene banks, Example: RGCN (Rajiv Gandhi Centre for Biotechnology, Tvm)
  - b) Community reserve : Example: Kadalundi community reserve

Answer any 3 questions from 10 to 13. Each question carries 3 score (3x3=9)

10.
  - a) Genus
  - b) Carl Linnaeus.

- c) Each organism is known by different names in different places and in different languages. So a commonly accepted name is needed for identifying organisms.

11.

- a) X: Placenta  
Y: Umbilical cord
- b) It helps in the exchange of materials between the mother and foetus without mixing their blood. Oxygen and nutrients reach the foetus through the umbilical cord developed from the placenta. Waste materials are also eliminated through the placenta.

12.

- a) Yes  
Ecosystems are places where there is rich biodiversity. Destruction of an ecosystem means destruction of many living organisms. So, in order to protect living organisms, we have to protect natural ecosystems.

b)

Availability of essential materials

- Food
- Medicine
- Fuels
- Construction materials

Cultural Services

- Aesthetics
- Recreation
- Study

Practice of rituals

- Ecological services
- Soil Formation
- Prevention of soil erosion. O<sub>2</sub>, CO<sub>2</sub> balance
- Availability of freshwater
- Flood control
- Climate control

Auxiliary services

- Nutrient cycling, Pollination, Biological Control, Seed dispersal (Any four)

13.

- A. Menstruation starts.  
B. Hip bones widen  
C. Hair grows in various parts of the body  
D. Fast growth of sex organs  
E. Shoulder bones expand.  
F. Ejaculation starts.

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