

SUMMATIVE ASSESSMENT - I (2017 - 2018)
OBJECTIVE MODEL
BIOLOGICAL SCIENCE
 (English Medium)

Class : VIII]

(Max. Marks : 40)

[Time : 2.45 Hrs.

INSTRUCTIONS :

1. The question paper is given as Booklet.
2. All the questions are multiple choice questions.
3. Use blue / Black ink ball point pen to answer all the questions in OMR sheet.
4. Identify the correct answer and bubble relevant circle given against the question number in OMR sheet.

Ex : If the answer is 3 to the question bubble as shown ① ② ③ ④

5. The answer paper will **not** be valued if ✓, ✕ symbols are used as answers.
6. The answer paper will **not** be valued for over writing and bubbling more answers than one.
7. Answer **all** the questions in the given time and handover the OMR sheet to the invigilator.

1. Read the following statements

- P) Cell membrane gives shape to the cell
 Q) It allows all the material in and out of cell

In the above sentences

- | | |
|----------------------|-----------------------------|
| 1) Q only correct | 2) Both P and Q are correct |
| 3) P and Q are wrong | 4) P only correct |

2. Identify the pair of unicellular organisms below

- | | |
|---------------------------|------------------------|
| 1) Paramecium - Leach | 2) Leach - Cockroach |
| 3) Paramecium - Cockroach | 4) Amoeba - Paramecium |

3. Match the following

- | | | |
|----------------------|---|-----------------|
| i) Cell | - | a) Robert Brown |
| ii) Nucleus | - | b) Robert Hooke |
| iii) Observed living | - | c) Leeween Hock |

Choose the right order from the following

- | | |
|------------------------|------------------------|
| 1) i)-b, ii)-c, iii)-a | 2) i)-b, ii)-a, iii)-c |
| 3) i)-c, ii)-b, iii)-a | 4) i)-a, ii)-b, iii)-c |

4. Antibiotics are used to kill the Micro organisms which are cause for diseases. Antibiotics prepared from

- | | |
|-------------|--------------|
| 1) Algae | 2) Protozoan |
| 3) Bacteria | 4) Fungi |

5. Read the following sentences about your reaching the adolescence stage.

- a) Do not want to listen to parent's suggestions
- b) Likes to stay with friends
- c) Prefers to spend more time before the mirror
- d) Wants to attract others

Which of the above are correct ?

- 1) a, b, c, d
- 2) a, c, d
- 3) b, c, d
- 4) a, b, c

6. Once upon a time, there were more vultures appears at Sireesha's village. Now they are not seen there. Her father said that the Vultures are going to extinct. In which book, it is to be recorded ?

- 1) Green data book
- 2) Black data book
- 3) Blue data book
- 4) Red data book

7. Harika told that we have to "Recycle and use the paper". Reason for it is :

- 1) To remove waste papers on the road
- 2) To waste the paper
- 3) To protect the environment by avoiding to cut the trees.
- 4) To reduce the price of paper

8. Teacher said that "it is our responsibility to conserve the mangroves." The reason is

- 1) They were useful as nursery's
- 2) They are protective areas for the endangered species
- 3) All the given.
- 4) Food available for Acquatic animals

9. Read the following slogans.

- a) Take vaccines - Keep diseases far
- b) Early marriages - Reasons for ill health
- c) After 10th class No marriage - 11th class for you
- d) Protect environment - Keep good health

In the above slogans, which are useful to give propaganda on child marriages ?

- 1) b, c
- 2) c, d
- 3) a, d
- 4) a, b

10. Read sentences about the cell

- A) Cytoplasm is a heterogenous material.
- B) The jelly like substance which is made up of different materials between the nucleus and the cell membrane is called cytoplasm.

In the above sentences

- 1) A is correct and B is also suitable explanation
- 2) A is not correct B is not suitable explanation
- 3) A is not correct but B is suitable explanation
- 4) A is correct B is not suitable explanation

11. We can see green colour in stagnated water because of the algae growing in it. But many Algae does not see with naked eyes. Identify the algae which can be seen with naked eye.

- 1) Spirulina
- 2) Seratium
- 3) Chlamydomonus
- 4) Spirogyra

12. Read the following statements

P) Vaccines are used to prevent the diseases

Q) Anti bodies for causative micro organisms produced in the body by vaccination

In the above sentences

- 1) P is incorrect but Q is correct explanation
- 2) P is correct but Q is incorrect explanation
- 3) P is incorrect and Q is also incorrect explanation
- 4) P is correct and Q is correct explanation

13. Terrestrial Ecosystem : Forest : : Acquatic Ecosystem : ?

- 1) River
- 2) Grasslands
- 3) Mountain
- 4) Desert

14. Which of the following is artificial Ecosystem ?

- 1) Aquarium
- 2) Grasslands
- 3) Desert
- 4) Forest

15. Which of the following influence more changes in an Ecosystem rapidly ?

- 1) Earthquake
- 2) Fire accidents
- 3) Indiscriminate activities of human
- 4) Strong winds

16. Teacher conducted the following activity with the students
What do you understand with this activity ?

- 1) To know the location of the houses
- 2) To understand the bio diversity of a habitation
- 3) To count the trees in the village
- 4) To count the households



17. Read the following stages of making the protozoan slide in the laboratory and identify the correct order.

- a) Observe the slide under Microscope
 - b) Take a drop of water collected alongwith the hay
 - c) Put cover slip on the water drop on the slide
 - d) Soak dry hay for 3 - 4 days into the water.
- 1) c, b, d, a
 - 2) d, b, c, a
 - 3) d, b, a, c
 - 4) a, b, c, d

(18-20) Read the table and answer the questions.

<i>Name of the disease</i>	<i>Causative organism</i>	<i>Mode of Transmission</i>	<i>Preventive Measures</i>
Tuberculosis	Bacteria	Air	Vaccination
Chicken pox	Virus	Air	Vaccination
Measles, Mumps	Virus	Air	Vaccination
Cholera, Typhoid	Bacteria	Contaminated food and water	good sanitary habits
Dengue	Virus	Mosquitoes	Control the breeding of mosquitoes, not allowing water stagnation
Chikengunya	Virus	Mosquitoes	Control the breeding of mosquitoes, not allowing water stagnation

18. Which of the below diseases can be prevented with vaccination ?

- 1) Dengue
- 2) Cholera
- 3) Chiken gunya
- 4) Tuberculosis

19. The disease ocured by virus is

- 1) Tuberculosis
- 2) Malaria
- 3) Measles
- 4) Cholera

20. Which disease we can prevent from the following by controlling the mosquitoes ?

- 1) Tuberculosis
- 2) Dengue
- 3) Cholera
- 4) Chicken pox

(21 - 22) Look at the picture and answer the questions.



21. What is the name of the organ ?
 - 1) Sebaceous gland
 - 2) Ovary
 - 3) Adrenal gland
 - 4) Adam's Apple

22. What changes do we see in adolescence with this organ ?
 - 1) Voice becomes harsh
 - 2) get pimples
 - 3) good thoughts
 - 4) Boys grow fast

23. What do you do to protect biodiversity ?
 - 1) Hunting the animals
 - 2) Observe the environment regularly
 - 3) Conduct plantation and do no harm to animals
 - 4) Cuts the trees

24. You want to give suggestions to your villagers for the prevention of diseases. Which of the following are correct ?
 - 1) Drink safe and clean water
 - 2) Keep the surrounding environment clean
 - 3) All the given
 - 4) Should not eat contaminated food

25. To avoid spoiling of pickles at my home, I have to
 - 1) Mix with salt, chilli powder and oil
 - 2) Shall keep in moisture place
 - 3) Heating it frequently
 - 4) Open the lid and keep open the Jar

26. Which of the following is a big cell ?
- 1) Ostrich bird's egg
 - 2) Muscle cell
 - 3) Red blood cell
 - 4) Nerve cell
27. "Pseudopodia" are the locomotor organs in _____
- 1) Paramecium
 - 2) Bacteria
 - 3) Spirogyra
 - 4) Amoeba
28. The Micro organism which turns Milk into Curd
- 1) Rhizopus
 - 2) Plasmodium
 - 3) Spirogyra
 - 4) Lactobacillus
29. In an Eco system, Energy transfer from one Ecosystem to another. Which is the base of the production of Energy in an Ecosystem ?
- 1) Herbivores
 - 2) Carnivores
 - 3) Sun
 - 4) Plants
30. Desert is an Ecosystem. The conditions are different when we compare other terrestrial Ecosystem. Rainfall is very less. Plants does not grow properly. Water scarcity will be seen here. Animals can adopt different types of adaptations. Choose the correct adaptation seen in the animals
- 1) able to live in hot conditions
 - 2) They are nocturnals
 - 3) All the given
 - 4) able to live with water scarcity
31. Read the following sentences about viruses. Identify the wrong statement
- 1) Causative organism for Swineflu and Polio
 - 2) They are the link between living and non living organisms
 - 3) They are the causative microbes for the diseases both in plants and animals
 - 4) They are big in size than viruses

(32-36) Read the following para and answer the question given below.

We can see the herd of the birds in the sky during the winter season. These birds are called Migratory birds. They move at the night time also. They came to India from Syberia by travelling thousands of kilometers to pervent from cold, scarcity of food. They migrate to Pulicat and Kolleru lakes in Andhra Pradesh. They built the nests on the trees nearby these lakes. They lay eggs and hatch them frequently. They change the places due to the human activities.

32. Which time of the day do the birds migrate ?
- 1) During the Day time only
 - 2) During the cloudy weather only
 - 3) Both Day and Nights
 - 4) During the Nights
33. Reason for migration of Birds to Indija.
- 1) To prevent from cold
 - 2) To produce the babies
 - 3) All the given
 - 4) Food
34. Which of the below is migratory birds :
- 1) Eagle
 - 2) Siberian crane
 - 3) Vulture
 - 4) Crow
35. What is the reason for making the nests nearby to lakes ?
- 1) Food is available
 - 2) Threatenning by villagers
 - 3) To weim
 - 4) Place is very cool
36. Why the migratory birds often change their places ?
- 1) By threatening
 - 2) To protect from predators
 - 3) Habit to change place frequently
 - 4) Cutting trees

37. What is the reason for growing of roots deeply and spreads more in the Xerophytes ?
- 1) Water availability is less in sandy soil
 - 2) It has thick and strong leaves
 - 3) To protect from the desert hurricanes
 - 4) To protect from the grazing of animals
38. What is the reason for getting pimples on the faces of both boys and girls in the Adolescence ?
- 1) Hormones does not released
 - 2) Uncleanliness
 - 3) Heredity
 - 4) The secretions of sebaceous glands are very active at this stage.
39. The First Scientist who proved that micro organism could be killed by boiling ?
- 1) Lazzaro Spallanzani
 - 2) Alexander Flemming
 - 3) Yerllapreggada Subba Rao
 - 4) Louis Pasteur
40. Eastrogen : Milk :: Testosterone : ?
- 1) Increase of breast
 - 2) Anger
 - 3) Pimples
 - 4) Release of sperms
41. Read the statements about micro Arthropods
- P) They increase soil fertility
Q) Causative organisms for skin disease like scabies.
- In the above sentences*
- 1) Q is only correct
 - 2) Both P and Q are correct
 - 3) Both P and Q are wrong
 - 4) P is only correct
42. Read the names of the diseases given below.
- Small pox, Hepatitis, Mumps, Tetanus, Whooping cough
- 1) all are occured by bacteria
 - 2) Vaccines are discovered for all the above diseases
 - 3) They occur only in Adults
 - 4) all are skin diseases
43. Rajani observed onion cells and cheek cells under Microscope. She observed that both cells are same. But she can not see the cell wall in the cheek cell. Which Question is suitable to clarify her doubt ?
- 1) If cell wall is absent in the cell how can organelles get protected?
 - 2) Is there any difference in the cytoplasm of plant and animal cells?
 - 3) Is nuclear membrane present in the cells which do not have cell wall?
 - 4) Does all the cells, which have nucleus do not possess cell wall?

44. The picture represents.



- 1) Budding in Hydra
- 2) Vegetative propagation in plants
- 3) Human reproductive system
- 4) Binary fission in Amoeba

45. I am a cell. I am the main cell in Nervous system. Identify me.



2)



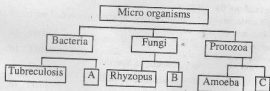
3)



4)



46. Look at the Flow chart. write correct example in Boxes.



Identify the organisms in A,B,C places orderly.

- 1) Pencillin, Plasmodium, Lactobacillus
- 2) Lactobacillus, Plasmodium, Pencillin
- 3) Plasmodium, Pencillin, Lactobacillus
- 4) Lactobacillus, Pencillin, Plasmodium

47. Plants or animals species found restricted to a particular area of a country are called Endemic species.

Identify the endemic species of Andhra Pradesh from below

- 1) Ongole breed ox
- 2) Kangaroo
- 3) Vulcher
- 4) Kiwi bird

48. Read the below sentences

- a) All the Fungi species are microbes
- b) We can see Bacteria with naked eye
- c) Microbes lives in water, air and soil
- d) All the Arthropodas are microbes

- 1) b, c, d
- 2) b and c
- 3) a and c
- 4) a, b, c

49. At the age of 13 years a boy can grow maximum percentage of his actual height

- 1) 92
- 2) 95
- 3) 98
- 4) 88

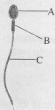
50. Match the following.

- i)- Mammary glands
- ii)- Estrogen
- iii)- Testosterone
- iv)-Adrenalin

- a- Release of Sperms
- b- Production of Milk
- c- Controls emotions
- d- Release of Ovum

- 1) i)-b, ii)-d, iii)-a, iv)-c
- 2) i)-c, ii)-b, iii)-d, iv)-a
- 3) i)-d, ii)-c, iii)-a, iv)-d
- 4) i)-b, ii)-c, iii)-a, iv)-d

(51-53) Look at the picture. Answer the Questions.



51. Which system does the picture belong to?

- 1) Male reproductive system
- 2) Nervous system
- 3) Excretory system
- 4) Female reproductive system

52. Identify the parts A,B,C in order.

- 1) Head, Tail, Neck
- 2) Tail, Neck, Head
- 3) Neck, Tail, Head
- 4) Head, Neck, Tail

53. Read the following parts of Spermatozoa

- a) Head
- b) Mitochondria
- c) Tail
- d) Neck

Identify the parts helpful for locomotion

- 1) b and c
- 2) a and b
- 3) b and d
- 4) a and c

54. Which of the following questions are suitable to clarify your doubts on contagious diseases ?
- 1) What happens when we are affected by a disease ?
 - 2) Why is fever not a contaminated disease ?
 - 3) What precautions do we follow to avoid contaminated diseases ?
 - 4) Why do diseases occur ?
55. Kavitha observed same size of cells both in large onion and small onion. She got a doubt. Which question is suitable to clarify her doubt ?
- 1) Is there any relation between the growth of onion and size of the cell ?
 - 2) Why do the cells in the small onion does not grow fast ?
 - 3) If the size of the cell is equal, why some onions appears very big in size ?
 - 4) Why are the cell not big in large onion ?
56. Hari advised to the farmers not to use high dose of pesticides. Guess the reason
- 1) To protect the insects which are harmful to the crops
 - 2) Food may be not tasty
 - 3) The friendly insects will die which give high yield
 - 4) To reduce the expenditure
57. Forest is an example for Biodiversity. If all the tigers disappear from forest, result may be
- a) Increase in the population of Foxes
 - b) Increase in the population of Herbivores
 - c) Increase in the population of Carnivores
 - d) The number of plants can decrease
- Which of the above are suitable ?
- 1) b, c and d
 - 2) a and c
 - 3) b and d
 - 4) a, b and c
58. Ganesh entered into the Adolescence stage. He looks very weak. Doctor advised him to take the food like leafy vegetables, jaggery and Citrus family fruits which contains more Iron. What is the reason?
- 1) Does not have knowledge
 - 2) Percentage of blood is very low
 - 3) Muscles are very smooth
 - 4) Bones are not strong

59. Ravi wants to make permanent slide of cheek cell. Which of the below is used for not to make the material dry ?

- | | |
|-------------------|-------------|
| 1) Methylene Blue | 2) Safranin |
| 3) Glycerin | 4) Water |

(60-62) Look at the picture and answer the questions.



60. Which of the material is added to myda-dough in the experiment ?

- | | |
|-----------|----------------|
| 1) Yeast | 2) Baking soda |
| 3) Iodine | 4) Bacteria |

61. What is the name of the process occurred in the experiment ?

- | | |
|-----------------|------------------|
| 1) Condensation | 2) Fermentation |
| 3) Diffusion | 4) Transpiration |

62. Which gas is released in the experiment

- | | |
|------------------|-------------|
| 1) Carbondioxide | 2) Nitrogen |
| 3) Hydrogen | 4) Oxygen |

63. Ravi mixed yeast to sugar solution. What changes may be observed by him ?

- | | |
|---------------------------------|---------------------------|
| a) It turned into Alcohol | b) Oxygen gas is released |
| c) CO ₂ will release | d) Cold drink is prepared |

Which of the above are correct ?

- | | |
|----------------------|------------|
| 1) a and b | 2) a and d |
| 3) None of the given | 4) a and c |

64. Identify the correct order of stages to observe the bacteria in buttermilk.

- Slowly heat the slide.
- Wash the slide gently with water after heating the slide.
- Put a drop of buttermilk on the slide.
- Drop crystal violet solution on the slide.

- | | |
|---------------|---------------|
| 1) b, c, d, a | 2) c, b, a, d |
| 3) c, a, d, b | 4) a, b, c, d |

65. Vinay brought the following material into the class room






Plastic tube, Wooden spoon, water, Clean cotton cloth, old newspapers, wire screen, measuring jar, plastic wrap, blender, roller.

Which of the following can we make with above material

- | | |
|-------------------------|--------------------|
| 1) Compressed cardboard | 2) Polythene paper |
| 3) Cotton cloth | 4) Recycled paper |

66. Legume plants have root nodules. Rhizobium bacteria is present in the root nodules. The bacterium provides nitrates to the plant, which gives shelter to the bacterium. This relationship is called
- 1) Parasitism
 - 2) Autotrophic nutrition
 - 3) Correlation
 - 4) Symbiosis
67. Which of the below said organs not related to female reproductive system ?
- 1) Uterus
 - 2) Ovary
 - 3) Seminal duct
 - 4) Fallopian tubes
68. The stage of embryo develops fully and all other parts are distinct is called
- 1) Embryo
 - 2) Zygote
 - 3) Baby
 - 4) Foetus
69. Read the following statements related to Hormones
- a) Reason for changes in the body
 - b) Start and stoppage of menstrual cycle
 - c) Controls sugar levels
 - d) Controls water
- 1) b,c,d
 - 2) a,c,d
 - 3) All the given
 - 4) a,b,c
70. Testis : Sperms :: Ovary : ?
- 1) Embryo
 - 2) Zygote
 - 3) Fallopian tube
 - 4) Ovum
71. We found different types of cells in the body. Their functions are also different. Which of the body cell participates in transmission of information ?
- 1) Muscle cell
 - 2) Bone cell
 - 3) Nerve cell
 - 4) Blood cell

(72-75) Use this information to answer the questions.

Name of the plant disease	Causative Micro-organism	Mode of Transmission	Figure
Citrus canker	Bacteria <i>Xanthomonas citri</i>	Air	
Red rot of Sugarcane	Fungi	Air, seedlings	
Tikka disease of Groundnut	Fungi	Air, seeds	
Mosaic disease in Tobacco	Virus	Insects	
Smut disease of Rice	Fungus	Air	

72. Which Micro organism is responsible for dots appears on lemon ?
- 1) Virus
 - 2) Fungi
 - 3) All the given
 - 4) Bacteria
73. We observed powder like substance on the leaf the causative organism is
- 1) Algae
 - 2) Bacteria
 - 3) Viruses
 - 4) Fungus
74. Way of Transmission of disease in Tobacco -
- 1) Insects
 - 2) Water
 - 3) Seeds
 - 4) Air
75. The name of the disease seen like round shaped spots on groundnut leaves.
- 1) Canker
 - 2) Tikka
 - 3) Red rot
 - 4) Smut

76. Which questions are suitable to clarify your doubts about metamorphosis ?
- Is metamorphosis take place in animal lives in water ?
 - What are the benefit of metamorphosis ?
 - Is metamorphosis take place if a frog eggs kept in a dry bottle ?
 - Why frog has tail ?
- b, c
 - c, d
 - d
 - a, b, c
77. Bhavana observed an animal in the ZOO. She guessed it must be the oviparous animal. What will be the reason ?
- It has feathers on its wings
 - No external ears appear
 - Seen hair on the skin
 - It has tail
- Which of the above is suitable reasons ?
- b and d
 - d only
 - a and b
 - a and c
78. While preparing a permanent slide we use stains to see the organelles clearly. Which of the below is not a stain ?
- Methylene Blue
 - Red ink
 - Safranin
 - Glysein
79. Read the following stages about the preparation of onion cell permanent slide.
- Place the peel on the slide, make sure that it is not folded and covered with cover slip
 - Break the onion piece and separate middle thin layer
 - Put a drop of water on the slide and keep onion layer on the slide.
 - Put safranin or methylene blue stain on the layer arrange them in a order.
- a, b, c, d
 - c, b, d, a
 - b, c, d, a
 - a, c, b, d
80. Rajesh is trying to observe with the material like Black coloured Bread, Slide, Microscope. Guess what he may be observed ?
- Algae
 - Bacteria
 - Protozoan
 - Fungi