

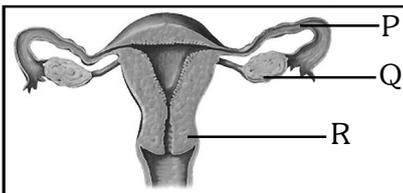
85 E	SUMMATIVE ASSESSMENT - 1
SA1	VIII CLASS - GENERAL SCIENCE
ARQR	Paper - II (BIOLOGICAL SCIENCES)
Time : 2¾ Hours] Parts A & B [Max. Marks : 40	
Name Section : Roll No.:.....	

Syllabus

Le : 1 to 8 ; Env. Studies : Le. 1 to 19

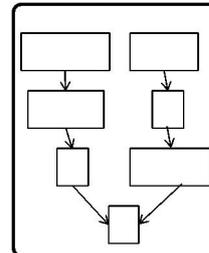
Choose the correct answer :

1. Which of the following gives the cell its shape, maintains its size, protects the internal structures inside and is selectively permeable ? ()
 (1) Cell wall
 (2) Nuclear membrane
 (3) Cell membrane (4) Tonoplast
2. Identify algae in the following. ()
 (1) Chara, Spirogyra, Bacillus
 (2) Bacillus, Paramecium, Rhizopus
 (3) Chara, Spirogyra, Chlamydomonas
 (4) Diatom, Lichens, Rhizopus
3. Which of the following option is true about the diseases, microorganisms ? Which cause them and symptoms of the diseases ? ()
 (1) Malaria, Protozoan, Fever and Chills
 (2) Hepatitis-B, Virus, Swollen liver
 (3) Cholera, Virus, Vomiting, Diarrhoea
 (4) Both (1) and (2)
4. Identify P, Q and R in the given figure.



- (1) P-Ovulation, Q-Fertilization, R-Embryo development
- (2) P-Embryo development, Q-Ovulation, R-Fertilization
- (3) P-Ovulation, Q-Embryo development, R-Fertilization

- (4) P-Fertilization, Q-Ovulation, R-Embryo development
5. Which of the following statement is true ? ()
 (1) Boys reach puberty at an Earlier age than girls.
 (2) Girls reach puberty earlier than boys.
 (3) At the end of rapid growth, girls are normally heavier than boys.
 (4) Between the age of 4-12, girls grow faster than boys.
6. What do X, Y and Z represent in the figure given below ? ()



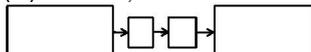
- (1) X-Ovum, Y-Testes, Z-Ovulation
- (2) X-Testes, Y-Ovum, Z-Implantation
- (3) X-Ovum, Y-Testes, Z-Implantation
- (4) X-Testes, Y-Ovum, Z-Fertilization
7. The last level of the ecosystem is ()
 (1) Producers (3) Consumers
 (2) Recyclers (4) Decomposers
8. Observe a, b statements. ()
 (a) Mangrooves are one of the most productive ecosystems.
 (b) Deriving nourishment from terrestrial fresh water and tidal water.

(1) both a, b are true

(2) a-true, b-false

(3) a-false, b-true

(4) both a, b are false

9.  ()

(1) P-Forest, Q-Grassland

(2) P-Grassland, Q-Forest

(3) P-Fresh water, Q-Marine

(4) P-Forest, Q-Marine

10. Red data book list consists ()

(1) list of endangered and threatened species

(2) endangered and common species

(3) list of rare and invasive species

(4) threatened and common species

11. Choose the correct matching. ()

(a) Testes [] (1) First menstruation

(b) Menarche [] (2) Sperm

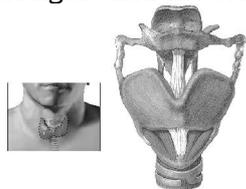
(c) Female hormone

[] (3) Estrogen

(1) a-1, b-2, c-3 (2) a-2, b-3, c-1

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

12. Observe the figure and choose the correct one. ()



(1) Adams apple, it was found in males only

(2) Adams apple, it was found in female only

(3) Eves apple, it was found in males only

(4) Eves apple, it was found in female only

13. $\boxed{\text{Roof nodules}} + \boxed{\text{bacterium}} = \boxed{?}$ ()

(1) Paracitism (2) Autotropism

(3) Symbiosis (4) Heterotropism

14. Choose the incorrect one. ()

(1) Microorganisms causes diseases.

(2) Pasteur proposed germ theory.

(3) Lazzaro Spallanzani is the first person discovered bacteria.

(4) Heating of liquids are called pasteurisation.

15. Observe a, b statements. ()

(a) The microorganism 'plasmodium' causes malaria.

(b) The female anopheles mosquito carries plasmodium.

(1) both a, b are true

(2) a-true, b-false

(3) a-false, b-true

(4) both a, b are false

16. Sugars \xrightarrow{P} alcohol = Q

Choose P, Q. ()

(1) P-Yeast, Q-Beer

(2) P-Yeast, Q-Fermentation

(3) P-Fermentation, Q-Acetic acid

(4) P-Blue green algae, Q-Fungus

17. The plastids which are coloured green and colourless are known respectively as ()

(1) Chromoplasts, Chloroplasts, leucoplasts

(2) Leucoplasts, Chromoplasts, Chloroplasts

(3) Chromoplasts, Leucoplasts, Chloroplasts

(4) Eluroplasts, Leucoplasts, Chromoplasts

18. The most important function of the organelle shown in the picture is ()

(1) Protein synthesis

(2) Nourishing the nucleus

(3) Secretion of materials

(4) To give shape to the cell

19. Which of the following is not true for eukaryotic cells ? ()

(1) Nucleus is bounded by nuclear membrane.

(2) Chromosomes contain histones.

(3) Chloroplasts and mitochondria contains r ribosomes.

(4) Gas vacuoles are present.

20. Cell theory includes all of the following except ()

(1) All organisms are composed of one or more cells.

(2) The cell is the most primitive form of life.

(3) The cell is the structural unit of life.

(4) Cells arise by division of pre-existing cells.

21. Which of the following is produced by using bacteria ? ()

(1) Antibiotics (2) Cheese

(3) Yoghurt (4) Cellulose

22. Which of the following is the correct combination ? ()

(1) Lysosomes - Intracellular digestion

(2) Microtubules - Respiration

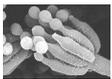
(3) Mitochondria - Cell secretion

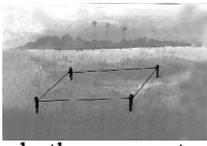
(4) Golgi complex - Energy

23. The moist bread becomes mouldy after a few days. When it is left in a container with a cover which of the following conditions favour the growth of the fungus ? ()
- (1) Absence of light
 - (2) Absence of water
 - (3) Presence of sunlight
 - (4) Presence of CO₂
24. Which of the following pair is correct ? ()
- (1) Viruses - Dengue fever
 - (2) Bacteria - Malaria
 - (3) Fungi - Hepatitis
 - (4) Protozoa - Syphilis
25. Lion, Red fox, Single horned rhino are listed as endangered animals. What is an endangered animal ? ()
- (1) An animal on the verge of extinction.
 - (2) An animal which is extinct.
 - (3) An animal that is dangerous to humans.
 - (4) An animal that is dangerous to other animals.
26. Which of the following is / are true of conservation and preservation ? ()
- (a) Protects the ecosystem from destruction.
 - (b) Prevents the depletion of natural resources.
 - (c) Maintains the population of endangered plant and animal species.
- (1) Only a and b
 - (2) Only a and c
 - (3) Only b and c
 - (4) All the three
27. Observe a, b statements. ()
- (a) Leeuwenhoek discovered small moving organisms.
 - (b) Animalcules are now called bacteria.
- (1) both a, b are true
 - (2) a is true, b is false
 - (3) a is false, b is true
 - (4) both a, b are false
28. Observe a, b statements. ()
- (a)
 - (b)
- (1) bit not wrote have to write new one
- (2)
 - (3)
 - (4)

Read the following paragraph and answer 29-30 questions.

A national park is a large area hatched to conserve the wildlife. Particularly the wild animal species in their natural habitat.

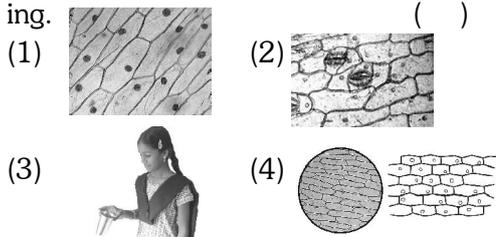
29. What is a National park ? ()
- (1) An area strictly reserved for improvement of wildlife.
 - (2) An area where grazing and cultivation are permitted.
 - (3) A park where the whole nation can have picnics.
 - (4) A park which can be privately owned.
30. Name the National park which is prohibited even grazing of domestic animals. ()
- (1) Jim Corbett National Park, Nainital district.
 - (2) Pakhal Sanctuary, Warangal
 - (3) S.V. Zoological Park, Tirupathi
 - (4) Kaziranga National park, Assam
31. Which of the following fungi have given one of the greatest drugs to the world of medicine ? ()
- | | |
|---|--|
| <p>(1) </p> | <p>(2) </p> |
| <p>(3) </p> | <p>(4) </p> |
32. The period from zygote to fully developed foetus is called "Pregnancy period". The gestation period in human is ()
- (1) 120-180 days
 - (2) 270-280 days
 - (3) 310-320 days
 - (4) 180-220 days
33. What will happen if you add yeast to dough in the following. ()
- (a) an increase in temperature.
 - (b) an increase in the amount of substance.
 - (c) an increase in the amount of released water by yeast cells.
 - (d) The release of carbon dioxide gas.
- (1) a, b only
 - (2) b, c only
 - (3) c, d only
 - (4) only d
34. Your headmaster asked you to prepare a questions about viruses to conduct a quiz programme in your school. Select the suitable questions in the following. ()

- (a) Are viruses are living organisms ?
 (b) What is the special character of the viruses?
 (c) What are diseases caused by viruses ?
 (d) Where he viruses multiply and grow ?
 (e) Name the virus is causes the malaria.
 (1) a, b only (2) a, c, d only
 (3) a, b, c, d only (4) a, b, c, d, e
35. If you introduced the exotic species in ecosystem what will happen ? Select the correct answer. ()
 (a) it destruct the ecosystem.
 (b) hazard for conservation of wildlife.
 (c) adverse effect on native species.
 (d) effective survival of native species.
 (1) a, b only (2) a, b, d only
 (3) a, b, c only (4) All
36. Select the suitable questions to know more about scientific method. ()
 (a) What is meant by scientific method ?
 (b) What are steps involved in scientific method ?
 (c) Is it framing of hypothesis is a part of scientific method ?
 (d) Is it plan an experiment is involved in scientific method ?
 (1) a, b only (2) b, c only
 (3) all (4) a, b , c only
37. If the sex hormones are absent in humans, what are the consequences occur ? ()
 (a) It delays the reach of the reproductive phase.
 (b) It delays the occurrence of secondary sexual characters.
 (c) It delays the occurrence of primary sexual characters.
 (d) It encourages growth hormones.
 (1) a, b only (2) c, d only
 (3) a, b, c only (4) All
38. Select the suitable questions for know more about child marriage - A social evil. ()
 (a) What is meant by child marriage. A social evil ?
 (b) Why the legal age for marriage is confined ?
- (c) What happens if a person got early marriage ?
 (d) What are the acts to prevent child marriages.
 (1) a, b (2) b, c
 (3) a, b, c (4) all
39. What happens if variations not occur in the organisms ? ()
 (a) All organisms are identical.
 (b) Survival of fittest is not occur ?
 (c) No beauty in the nature.
 (d) No biological diversity found in nature.
 (1) a, b only (2) b, c only
 (3) c, d only (4) all
40. Ravi's science teacher asked him to prepare some questions about different ecosystem to conduct a quiz programme in school. He prepared some questions. Select suitable questions in the following. ()
 (a) What is meant by ecosystem ?
 (b) What are the components in the ecosystem ?
 (c) Distinguish between Terrestrial and Aquatic ecosystems.
 (d) Where the camels are found ?
 (e) Give some examples to decomposers.
 (1) a, b, c (2) b, c, d
 (3) all (4) c, d, e
41. Observe the diagram and select the correct answer. ()
- 
- (a) It helps to study the ecosystem.
 (b) Tape, small pegs, handlens is required.
 (c) It is prepared in one meter square.
 (d) It helps to found the microbial organism in a specified area.
 (1) a, b only (2) a, b, c only
 (3) a, d only (4) a, c, d only
42. Somu prepared a slide mount in the lab and observed under microscope. He found the organism like the following figure. What it depicts ? ()
- 
- (1) Onion peel cell
 (2) Human cheek cells
 (3) Cark cells
 (4) T.S. of Dicot

43. Identify the materials for preparation of lactobacillus stain in your laboratory. ()

- (1) buttermilk, dough, crystal violet, burner
- (2) buttermilk, burner, slide, crystal violet, microscope
- (3) hot milk, dough, microscope, spoon
- (4) buttermilk, dough, microscope, spoon

44. You could take cells from the inner layer of the cheek, stain them with saffranin. You find the correct slide in the following. ()



45. You want to observe Nucleus in cell. Select the required materials from the list. ()

Onion, Saffranin, Methylene blue, Cover slip, Slide, Microscope, Tridax, Eye piece, Cheek cells

- (1) Onion, Saffranin, Tridax, Eye piece, Microscope
 - (2) Slide, Onion, Saffranin, Methylene blue, Microscope
 - (3) Microscope, Tridax, Eye piece, Cheek cells
 - (4) Onion, Methylene blue, Cover slip, Slide, Microscope.
46. Arrange the procedure of the onion peel observation in an order. ()
- (i) Cut small fleshy portion from the onion bulb.
 - (ii) Break this piece into two small parts.
 - (iii) Notice translucent membrane and cut it.
 - (iv) Take a small piece and spread evenly on a slide.
 - (v) Close with cover slip and observe under microscope.
- (1) i, ii, v, iii, iv (2) v, iv, iii, ii, i
 (3) i, ii, iii, iv, v (4) ii, iii, i, iv, v

Read the paragraph and answer 47-49 questions.

Take some of water in two separate beakers. Add 5 to 10 spoons of sugar to each beaker, then add 2 to

3 spoons of yeast to one of the bowls only. Close both of the bowls with lids and keep them in a warm place. After 3 to 4 hours remove the lids and smell the contents.

47. What differences did you observe between the two bowls? ()

beaker - I with yeast	beaker - II without yeast
(1) no change	colour change
(2) alcohol odour	no odour
(3) crystalised	diluted
(4) sugars convert into starch	sugars convert into amino acids

48. What will be the reason for the odour in yeast mixed bowl? ()

- (a) Sugars are converted into alcohol by yeast.
 - (b) This process is known as fermentation.
 - (c) Production of Ammonia gas.
 - (d) Fermentation help to produce beverages
- (1) a, b, c only (2) b, c, d only
 (3) a, b, d only (4) a, c, d only

49. Preparation of ethyl alcohol by adding yeast from sugar industry is used ()

- (1) wheat flour (2) molasses
- (3) crushed fruit juices
- (4) yoghurt

50. Suma collected some pond water and collect some of the greenish scrapings from the side of the tank. Pour 1-2 drops of water on a slide and observe through microscope. With this lab activity what should she observe? ()

- (1) Fungi (2) Algae
- (3) Bacteria (4) Micro-Arthropods

51. How can you observe soil micro - organisms, identify the suitable activities. ()

- (i) Collect some soil from the field in a beaker.
- (ii) Add some water to it and stir it.
- (iii) Add some dilute Hydrochloric acid to it.
- (iv) After settle down, take a drop of water to observe.

- (1) i, ii, iv only (2) i, ii, iii only
 (3) i, iii, iv only (4) i, iv only

52. Observe a, b statements. ()
- (a) Prepare decoction of hay to observe protozoa.
- (b) Amoeba, paramoecium are protozoans.
- (1) both a, b are true
 (2) a - true, b - false
 (3) a- false, b - true
 (4) both a, b are false.

53. The table shows three friendly functions of the microorganisms. Write the name of the organisms beside its function. The first one has been done for you. ()

- (1) a-Rhizobium, b-Clostridium
 (2) a-Botulinum, b-Rhizobium
 (3) a-Rhizobium, b-Pencillium
 (4) a-Pencillium, b-Rhizobium

The table below shows the character of the different ecosystems and answer 54 - 57 questions.

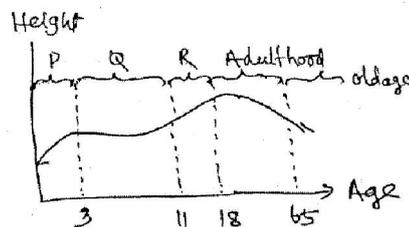
54. Which statement about ecosystem 1 and 2 is most likely to be correct? ()
- (1) Ecosystem - 1 and Ecosystem - 2 both are desert ecosystems.
 (2) Ecosystem - 1 is forest, Ecosystem - 2 is Grassland ecosystems.
 (3) Ecosystem - 1 is desert, Ecosystem - 2 is Forest ecosystem.
 (4) Ecosystem - 1 is fresh water, ecosystem - 2 is marine ecosystem.
55. Observe a, b statements. ()
- (a) Forests shows much species diversity.
 (b) Forests have greater degree of stratification.
- (1) both a, b are true
 (2) a - true, b - false
 (3) a - false, b - true
 (4) both a, b are false

56. Which type of producers found in desert ecosystem. ()
- (1) lichens, xerophytes, mosses are found.
 (2) succulent cacti store water in their stems.
 (3) shrubs, bushes, grasses are found
 (4) all the above

57. Write the correct statement about the decomposers in both ecosystems. ()

- (a) Due to poor vegetation decomposers in deserts.
 (b) Thermophilic fungi are found in forests.
 (c) a wide variety of micro-organisms live on forests.
 (d) Fungi and bacteria are decomposers in deserts.
- (1) a, b only (2) b, c only
 (3) c, d only (4) a, c only

Answer the questions from 58-60 based on the graph given below.



58. Which of the following represents growth periods labelled as P, Q and R? ()
- (1) P-Infancy, Q-Childhood, R-Oldage
 (2) P-Infancy, Q-Childhood, R-Adolescence
 (3) P-Adulthood, Q-Adolescence, R-Oldage
 (4) P-Childhood, Q-Infancy, R-Adolescence
59. When does adolescence occur? ()
- (1) 0 to 3 years (2) 3 to 13 years
 (3) 11 to 18 years (4) 18 to 45 years
60. During which of the following stages of growth in height is maximum? ()
- (1) At the end of adulthood
 (2) Before puberty
 (3) At the beginning of oldage
 (4) At the beginning of adulthood
61. Observe the given picture and choose the answer. Who am I? ()



- (1) I am a child (2) I am an adult
- (3) I am an adolescent
- (4) I am an infant

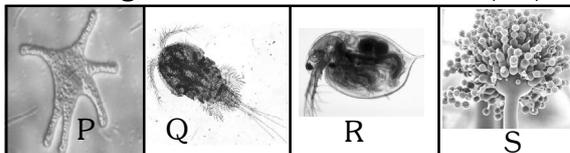
Read the given paragraph and choose correct answers from 62-64.

The Red data book symbolizes a warning signal for those species which are endangered and have to be protected. Otherwise they are likely to become extinct in the near future.

62. Red data book consists ()
- (1) list of endangered and threatened species.
 - (2) endangered and common species.
 - (3) list of rare and invasive species.
 - (4) threatened and common species.
63. Identify the animals and plants listed in Red data book. ()
- | | | | | |
|-------------------|-----------------|--------------|------------|-------------|
| Red fox
a | vulture
b | wildcat
c | Cycas
d | Monkey
e |
| Spotted deer
f | Sandalwood
g | Lotus
h | Cow
i | Lion
j |
- (1) All are correct, except a, i.
 - (2) All are correct, except e, i.
 - (3) All are correct, except f, g.
 - (4) All are correct, except e, i.
64. Observe the table and identify the diseases transmitted through air. ()

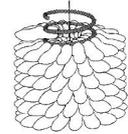
- (1) Citrus canker, Redrot, Smut
- (2) Mosaic, Canker, Redrot
- (3) Mosaic, Canker, Tikka
- (4) Citrus Canker, Redrot, Smut, Tikka

65. Which of the following picture shows fungi ? ()

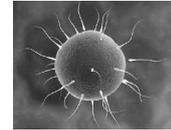


- (1) P (2) Q
- (3) R (4) S

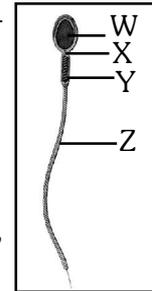
66. The figure depicts ()
- (1) Human immuno virus
 - (2) Tobacco mosaic virus
 - (3) Anabina
 - (4) Nostoc



67. Identify the process shown below. ()
- (1) Fission
 - (2) Fertilization
 - (3) Conjugation
 - (4) Ovulation



68. Identify the W, X, Y, Z in the given picture. ()
- (1) W- Head, X - Neck, Y- Mitochondria, Z - Carvix
 - (2) W-Head, X-Neck, Y-Middle piece, Z-Tail
 - (3) W-Neck, X-Head, Y-Middle piece, Z-Tail
 - (4) W-Tail, X-Middle piece, Y-Neck, Z-Head



69. Identify the correct sequence for budding in Hydra. ()



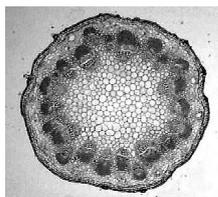
- (1) a, b, c, d (2) a, c, d, b
- (3) d, c, b, a (4) a, d, b, c

70. ()

bit repeated have to write new one

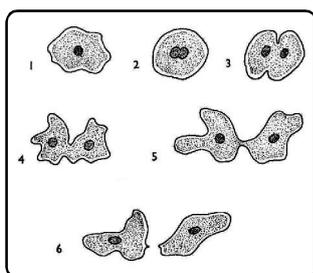
- (A)
- (B)
- (C)
- (D)

71. Name the picture in the following. ()



- (1) Transverse section of leaf
- (2) Transverse section of Dicot stem
- (3) Longitudinal section of Dicot stem
- (4) Transverse section of Monocot stem

72. Identify the process in the picture shows. ()



- (1) Binary fission in amoeba.
- (2) Multiple fission in amoeba.
- (3) Binary fission in bacteria.
- (4) Sexual reproduction in amoeba.

73. Identify the suitable slogans about ecosystem to conduct rally in your school. ()

- (a) Ecosystem is a system for balance.
 - (b) Study ecology, save ecosystem.
 - (c) All living organisms have a system.
 - (d) Be prepare Earth will collapse soon.
- (1) a, b only (2) a, b, c only
(3) a only (4) All

74. Ravi is a teenage boy. His voice is changed now. Name the organ responsible for this. ()

- (1) Eves apple (2) Adams apple
- (3) Cartilage membrane
- (4) Smoothness of tongue

75. Which of the following substances is / are produced by an organism to prevent or reduce the spread of micro-organisms ? ()

- (1) Antiseptics (2) Antibiotics
- (3) Antibodies (4) Antigens

76. Which of the following human activities may cause the extinction of species ? ()

- (1) Using animal parts as traditional medicines.
- (2) Encouraging game hunting as a sport.
- (3) Using animal parts as decorative piece.
- (4) All of these

77. Why is the proper management of the environment important ? ()

- (1) Humans can continue to live
- (2) Animals would not become extinct
- (3) The balance nature can be preserved
- (4) All of the above

78. Which of the following statements are correct about menstrual cycle ? ()

- (1) A girl who has reached puberty will menstruate throughout her life.
- (2) Menstruation occurs every 28 days.
- (3) During every menstrual cycle, one mature ovum will be released by the ovary.
- (4) Both (1) and (3)

79. Find the not correctly matched. ()

- (a) Testes - Estrogen
 - (b) Ovaries - Estrogen
 - (c) Pituitary - Growth hormone
 - (d) Adrenalin - Control emotions.
- (1) a (2) b
(3) c (4) d

80. Assertion (A) - Our Indian meal of roti / rice, dal and vegetables is a balanced meal.

Reason (R) - Balanced diet includes proteins, carbohydrates, fats and vitamins. ()

- (1) both A, R are correct, R explains A.
- (2) both A, R are correct, R not explains A.
- (3) A is correct, R is wrong.
- (4) Both A, R are wrong.