



World Science Olympiad (WSO) Standard: VIII

👉 Instructions:

*There are three sections and total 40 questions.
Attempt all the questions.
There is no negative marking for the wrong answers.
Time: 90 minutes*

Doers Section

No. of Questions:30
Marks for each Question: 2

1. Which zone of the flame is the hottest part?
 - a. Outer zone
 - b. Middle zone
 - c. Inner zone
 - d. Hotness of all parts of the flame is the same



2. External fertilisation is observed in
 - a. Dog
 - b. Cat
 - c. Snake
 - d. Frog

3. The beginning of the menstruation cycle is termed as:

- a. Menopause
- b. Menarche
- c. Chromosome
- d. None of the above

WORLD OLYMPIADS

ASSOCIATION

4. A force of 40N is applied uniformly on an area of 40m². What is the pressure on that surface in pascal?

- a. 2
- b. 20
- c. 1
- d. 10

5. By which part of the human body the sound is produced?

- a. Larynx
- b. Pharynx
- c. Mouth
- d. Tongue

6. The stars forming a group that has a recognisable shape is called:

- a. Galaxy
- b. Milky way
- c. Universe
- d. Constellation

7. In which season Kharif crop is grown?

- a. Winter
- b. Spring
- c. Rainy
- d. None of the above

8. Which kind of microorganism causes malaria?

- a. Bacteria
- b. Virus
- c. Protozoa
- d. Corona

9. Some plastics when moulded once, cannot be softened by heating. These are called:

- a. Thermosetting plastics
- b. Thermo-plastics
- c. Polyethene
- d. None of the above

WORLD OLYMPIADS
ASSOCIATION

10. Cells without a well-organised nucleus are called:

- a. Immature cell
- b. Prokaryotic cell
- c. Developing cell
- d. Undefined cell

11. Two apples kept on the table having 1m distance between them

- a. Attract each other
- b. Repel each other
- c. There is no interaction between them
- d. None of the above



12. If there is a bomb blast on the moon, in how much time its sound can be heard on the Earth?

- a. nearly 10 days
- b. nearly 10 months
- c. nearly 10 years
- d. never

13. Which of the following will not conduct electricity?

- a. Seawater
- b. Pure water
- c. Groundwater
- d. Rainwater

14. Which device can be used to know the presence of charge on any material?

- a. Telescope
- b. Kaleidoscope
- c. Electroscope
- d. Microscope

15. Which planet in our solar system is also known as the red planet?

- a. Mercury
- b. Venus
- c. Mars
- d. Earth

WORLD OLYMPIADS
ASSOCIATION

16. At the junction of the optic nerve and the retina, there are no sensory cells, so no vision is possible at that spot. This is called:

- a. Cones
- b. Rods
- c. Vision cells
- d. Blindspot

17. Incident angle is defined as:

- a. The angle between the incident ray and reflected ray
- b. The angle between incident ray and surface it strikes
- c. The angle between the incident ray and normal to the surface it strikes
- d. None of the above

18. In sound production, the frequency of the vibrating part of the sound-producing object determines

- a. The loudness of the sound
- b. The shrillness of the sound
- c. Both loudness and shrillness of the sound
- d. Speed of the sound

19. The stage of the embryo in which all the body parts can be identified is called:

- a. Foetus
- b. Zygote
- c. Chromosome
- d. Uterus



20. Which of the following is present in only plant cells only?

- a. Plastids
- b. Nucleus
- c. Vacuole
- d. Cell membrane

21. The chemical used to control weeds are known as:

- a. Insecticides
- b. Weedicides
- c. Pesticides
- d. All of the above

22. During baking, the bread rises due to:

- a. The growth of yeast cell
- b. The water vapour
- c. Heat
- d. Cooling

23. Which of the following is also known as "Black gold"?

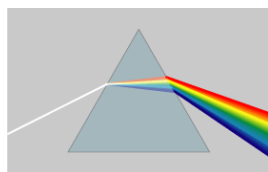
- a. Coal
- b. Blackboard
- c. Graphite
- d. Petroleum

24. Which of the following is a field or non-contact force?

- a. Muscular force
- b. Electrostatic force
- c. Frictional force
- d. None of the above

25. When a light beam is passed through the prism, it splits in its component colours. This phenomenon is known as:

- a. Spectrum
- b. Scattering
- c. Dispersion
- d. Refraction



26. Sound is a kind of:

- a. Energy
- b. Force
- c. Pressure
- d. All of the above

27. Which one of the following is a chemical change?

- a. Cutting paper
- b. Folding paper
- c. Burning paper
- d. None of the above

28. The Halley's Comet is seen after every

- a. 56 years
- b. 66 years
- c. 76 years
- d. 86 years

29. Find the next number in the series.

-2, 5, 13, 23, 37, ---

- a. 89
- b. 69
- c. 59
- d. 49

30. Choose the odd one out.

Paramecium, Streptococcus, Protista, seaweed

- a. ~~Paramecium~~
- b. Streptococcus
- c. Protista
- d. Seaweed

WORLD OLYMPIADS
ASSOCIATION

Executors Section

No. of Questions: 5
Marks for each question: 3

31. Choose the correct statement.
- Fertilizer provides humus to the soil but Manure doesn't.
 - Manure provides humus to the soil but Fertilizer doesn't.
 - Both manure and fertilizer provide humus to the soil.
 - None of the manure and fertilizer provides humus to the soil.
32. The property of metal by which they can be beaten into thin sheets is called:
- Malleability
 - Ductility
 - Sonorous
 - All of the above
33. The sourcebook which keeps a record of all the endangered animals and plants is known as:
- Endangered Book
 - Endangered Record Book
 - Red Data Book
 - Green Data Book
34. Which of the following statement is wrong?
- The hormone responsible for changes at puberty in the female is known as ESTROGEN.
 - The sex of the baby is determined by the sex chromosome released from the male body.
 - Uterus is the part where the development of the baby takes place
 - The testes produce the male gametes called the ovum.
35. The two ends of the lightning conductor are:
- Both ends are in the air.
 - One end in the air and one to the building.
 - One end in the air and one to the earth.
 - Both ends are on the earth.

Performers Section

No. of Questions: 5
Marks for each question: 5

36. Match the different diseases to the class of microorganism causing them.

| Name of the disease | | Causative microorganism | |
|---------------------|----------|-------------------------|----------|
| A | Covid | I | Bacteria |
| B | Typhoid | II | Virus |
| C | Ringworm | III | Protozoa |
| D | Malaria | IV | Fungus |

- a. A-I, B-II, C-III, D-IV
- b. A-II, B-I, C-IV, D-III
- c. A-IV, B-III, C-II, D-I
- d. A-III, B-IV, C-I, D-II

37. Find the number of correct statements from the statements given below:

- I. Light is not reflected from green and grey surfaces.
- II. There is no lateral inversion only in the case of a plane mirror.
- III. The focal length of the eye lens is always constant.
- IV. Two mirrors inclined at some angle can give multiple images.
- V. The angle of incidence is always equal to the angle of reflection irrespective of the type of the mirror.

- a. 2
- b. 3
- c. 4
- d. 5

38. The correct order of different stages in human reproduction

- a. Release of gametes → Fertilisation → Zygote → Embryo → Foetus → Baby
- b. Release of gametes → Zygote → Fertilisation → Embryo → Foetus → Baby
- c. Release of gametes → Fertilisation → Zygote → Foetus → Embryo → Baby
- d. Release of gametes → Fertilisation → Foetus → Embryo → Zygote → Baby

39. Fill in the blanks with the appropriate words.

There are several small coloured bodies in the cytoplasm of plant cells. They are scattered in the cytoplasm of the leaf cells. These are called _____. They are of different colours. Some of them contain green pigment called _____. Green coloured plastids are called _____. They provide green colour to the leaves. These green coloured pigments are essential for _____.

Choose the option with the correct order of answers.

- a. Vacuole, Haemoglobin, Blood cells, Respiration
- b. Haemoglobin, Vacuole, Blood cells, Respiration
- c. Plastids, Chloroplasts, Chlorophyll, Photosynthesis
- d. Plastids, Chlorophyll, Chloroplasts, Photosynthesis

40. Match the acids present in the first column to their potential source in column B

| Name of the Acid | | Source | |
|------------------|-----------|--------|---------------------------------------|
| A | Nylon | I | Prepared from coal, water, air |
| B | Rayon | II | Artificial silk |
| C | Polyester | III | Fabrics don't wrinkle easily |
| D | Acrylic | IV | A synthetic fibre that resembles wool |

- a. A-I, B-II, C-III, D-IV
- b. A-II, B-I, C-IV, D-III
- c. A-IV, B-III, C-II, D-I
- d. A-III, B-IV, C-I, D-II