



Time Alloted : 2 hours

Total Marks : 100

Instructions

The scholarship test will be 2 hours in duration and will be 100 marks in total.

The test consists of multiple-choice questions only .

All questions must be answered on the provided answer sheet.

You are not allowed to use any electronic devices during the test.

You will not be allowed to leave the test room until the end of the test.

Any form of cheating will result in disqualification from the scholarship.

You will be notified of your test results within a week after the test.

If you have any questions or concerns, please ask the invigilator before the test.

Read all instructions and questions carefully before answering

Do not spend too much time on a single question. Attempt all questions to the best of your ability

You will be required to submit your answer sheet before leaving the test room.

Do not forget to fill in your personal details on the answer sheet.

The scholarship test is a competitive process and only a limited number of scholarships will be awarded.

Name : _____

Class : 11th Biology School : _____

Education Board : _____ Contact : _____

Signature of Invigilator

Excel Institute

UNADDEEP COMPLEX , SUSSEN-TARSALI
RING ROAD , TARSALI ,
VADODARA , 390010
CONTACT : 9824042421

EXSAT 11TH BIO
Class 11 - Admission Test

Time Allowed: 1 hour and 30 minutes

Maximum Marks: 100

- He had been working for more than 11 hours. He _____ be tired after such hard work. He _____ prefer to get some rest.
 - need, should
 - had better, must
 - must, may
 - mustn't, had better
- Fill in the blank by choosing the correct option to complete the following.
The concert's been _____ until next month because the singer's got a throat infection.
 - Will be put away
 - Put aside
 - Put down
 - Put off
- Fill in the blank by choosing the correct option:
The electricity department will _____ the power for two hours this evening.
 - shut down
 - shut in
 - shut out
 - shut off
- I didn't feel very well yesterday. I _____ eat anything.
 - wouldn't
 - mustn't
 - cannot
 - couldn't
- 100 joules of heat is produced per second in a 4 ohm resistor. What is the potential difference across the resistor?
 - 50 V
 - 60 V
 - 20 V
 - 10 V
- At a given time, a house is supplied with 100 A at 220 V. How many 75 W, 220 V light bulbs could be switched on in the house at the same times if they are all connected in parallel?
 - 393
 - 293
 - 193
 - 93
- The image formed by a concave mirror is virtual, erect, and magnitude. The position of object is:
 - between focus and centre of curvature
 - at pole
 - at focus
 - between pole and focus
- If the current flowing through a fixed resistor is halved, the heat produced in it will become:
 - four times
 - one-fourth
 - double
 - one-half
- Which of the following phenomena of light are involved in the formation of a rainbow?

- a) Reflection, refraction and dispersion b) Refraction, dispersion and total internal reflection
- c) Refraction, dispersion and internal reflection d) Dispersion, scattering and total internal reflection
10. How many electrons constitute one coulomb of charge?
- a) 6.25×10^{18} b) 2.25×10^{18}
- c) 6.18×10^{18} d) 6.25×10^{19}
11. The lens of the eye can become thicker and thinner. Why is this flexibility useful?
- a) The lens allows the eye to focus on far objects as well as near objects.
- b) The lens is not likely to break.
- c) The eye can move up, down, left and right.
- d) The lens can allow varying amounts of light to enter the eye.

12. Few drops of aqueous solution of ammonium chloride are put on a universal indicator paper. The paper turns pink.

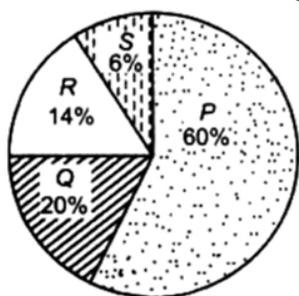
Study the following table and choose the correct option.

Nature	Ammonium chloride is a salt of ...	Range of pH
(a) acidic	weak acid and strong base	less than 7
(b) basic	weak acid and strong base	more than 7
(c) acidic	strong acid and weak base	less than 7
(d) basic	strong acid and strong base	7

- a) Option (c) b) Option (d)
- c) Option (a) d) Option (b)
13. What type of reaction is an exothermic reaction?
- a) Decomposition reaction b) Combustion reaction
- c) Redox reaction d) Displacement reactions
14. The colour of ferrous sulphate crystals is:
- a) Bluish green b) Aqueous green
- c) Light green d) Deep green
15. An aqueous solution **A** turns phenolphthalein solution pink. When another aqueous solution **B** is added to the pink solution, the pink colour disappears. Now when a few drops of solution **A** are added to this reaction, the mixture appears pink again. The respective changes in the nature of the solution are from:
- a) acidic → basic → basic b) acidic → basic → acidic
- c) basic → acidic → acidic d) basic → acidic → basic
16. The table below has information regarding pH and the nature (acidic/basic) of four different solutions. Which one of the options in the table is correct?

Option	Solution	Colour of pH paper	Approximate pH value	Nature of solution
(a)	Lemon juice	Orange	3	Acidic
(b)	Milk of magnesia	Blue	10	Basic
(c)	Gastric juice	Red	6	Acidic
(d)	Pure water	Yellow	7	Netural

- a) Pure water
b) Gastric juice
c) Milk of magnesia
d) Lemon juice
17. What happens when dilute sulphuric acid is poured on a copper plate?
a) Copper sulphate formed.
b) Zinc sulphate formed.
c) Copper chloride formed.
d) No reaction takes place.
18. The taste and smell of food changes when kept for a long time in open. It is called
a) Corrosion
b) Rancidity
c) Reduction
d) Oxidation
19. To make all connections airtight, in the experiment, we use
a) Lubricant oil
b) Either vaseline or wax
c) Vaseline
d) Wax
20. Which of the following statements is not true about a **bud** in **Hydra**?
a) It forms due to repeated cell division at one specific site.
b) It detaches from the parent body as soon as it is produced.
c) It is an outgrowth.
d) It becomes a new independent individual.
21. Refer to the given pie chart regarding contribution of different greenhouse gases and select the incorrect statement regarding it.



- a) Q is also produced by incomplete decomposition mostly by anaerobic methanogens.
b) S is used in aerosol cans, jet fuel, air conditioners and refrigerators.
c) Excessive use of fossil fuel is adding more P to atmosphere.
d) R are synthetic gaseous compounds of carbon and halogen.
22. Seeds taken in the conical flask during respiration experiment must be
a) Dry gram seeds
b) Boiled gram seeds

- c) Wet gram seeds
23. The process of photosynthesis occurs in:
- a) Infrared radiation
- b) UV radiation
- c) Dark
- d) Visible light
24. _____ is a product of meiosis.
- a) Megaspore mother cell
- b) Primary endosperm nucleus
- c) Microspore mother cell
- d) Megaspore
25. Micro-organisms belong to the group of:
- a) Decomposers
- b) Consumers
- c) Composers
- d) Producers

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