

AMITY INSTITUTE FOR COMPETITIVE EXAMINATIONS

Delhi Centres: • E-23, Defence Colony, New Delhi - 110024. Ph.: 011-24336143/44, 24331000-02.
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AMITY FIVE YEARS CONCEPTUAL PROGRAMME

MODULE TEST-III

CLASS - VI

SCIENCE

Time: 1 hour 15 Minutes

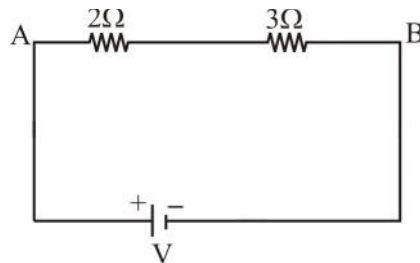
Date: 27.01.2017

Maximum Marks: 180

GENERAL INSTRUCTIONS:

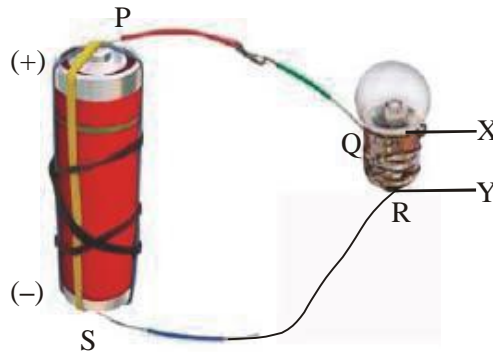
1. Fill in the response sheet with your Name, Class, School etc, in the respective columns, using a blue pen
2. Only one choice (a), (b), (c), (d) is correct for each question. Shade the alphabet of your choice in the response sheet.
3. For each correct response you will get **4 marks**; for each incorrect response you will lose **1 mark**. However if the question is unanswered no marks will be deducted.
4. Use only HB pencil/Ball point pen for Shading.

1. Which of the following is not a periodic phenomenon?
(a) Swing of pendulum of a pendulum clock
(b) Sunset and sunrise
(c) Motion of car on road
(d) Revolution of the earth around the sun
2. The percentage of carbon dioxide in air is about
(a) 3% (b) 0.3% (c) 0.03% (d) 0.003%
3. What will be the effective resistance in the given circuit between A and B



- (a) $\frac{5}{6}\Omega$ (b) 6Ω (c) 5Ω (d) $\frac{6}{5}\Omega$

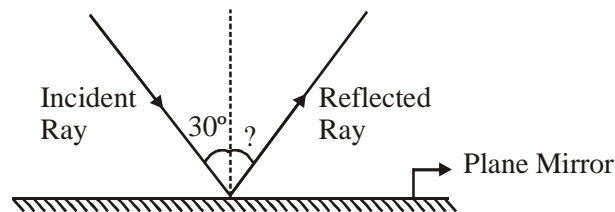
4. A magnet 'X' attracts another piece 'Y'. Then
 (a) 'Y' is necessarily a magnet
 (b) 'Y' is necessarily unmagnetised
 (c) 'Y' may either be a magnet or an unmagnetised iron piece
 (d) 'Y' is necessarily an aluminium piece
5. Which of the following is an insulator?
 (a) Copper (b) Rubber (c) Silver (d) Iron
6. Which of the following is a vector quantity :-
 (a) Force (b) Speed (c) Distance (d) Mass
7. Look at the given figure :



It consists of a cell, a bulb with the two terminals X and Y and wires with ends P, Q, S and R.

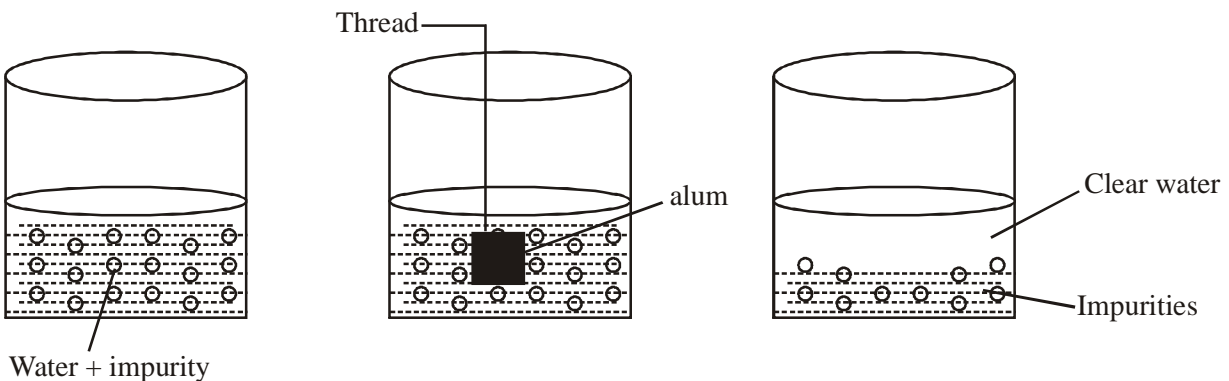
The direction of current will be :-

- (a) PQRS (b) SRQP (c) PRQS (d) SQRP
8. An object is placed 20 cm in front of a plane mirror, the image will be formed at :-
 (a) 50 cm (b) 40 cm (c) 20 cm (d) 10 cm
9. Which of the following gases is useful for combustion?
 (a) Nitrogen (b) Carbon dioxide (c) Oxygen (d) None of these
10. The relation between charge 'Q' and current 'I' is given as :-
 (a) $Q = \frac{I}{t}$ (b) $Q = \frac{I}{t^2}$ (c) $I = \frac{Q^2}{t}$ (d) $I = \frac{Q}{t}$
11. A car travels with speed of 60 km/h. The time it will take to cover 120 km is :-
 (a) 3 hours (b) 2 hours (c) 5 hours (d) 1 hour
12. Study the following diagram :-



- (a) 60° (b) 20° (c) 30° (d) 120°
13. If a magnet is cut into two pieces we will obtain :-
 (a) Two north poles together (b) Two magnets
 (c) Two south poles together (d) Magnet will lose its magnetic property

14. The principle on which a pin hole camera works :-
 (a) Reflection of light (b) Refraction of light
 (c) Rectilinear propagation of light (d) Dispersion of light
15. An electric cell converts
 (a) Light energy into chemical energy (b) Chemical energy into electric energy
 (c) Electric energy into light energy (d) Light energy into electric energy
16. Which of the following is not the variety of cotton?
 (a) Long staple cotton (b) Short staple cotton
 (c) Medium staple cotton (d) Micro staple cotton
17. Which of the following is not true about polyvinyl chloride (PVC)?
 (a) Its monomer is vinyl chloride
 (b) It is used in the manufacturing of rain coats
 (c) It is used in insulating material in wires
 (d) It is a natural polymer
18. Identify the translucent material from the following :
 (a) Ground glass (b) Tracing paper (c) Glass air (d) Both (a) and (b)
19. "It is difficult to dissolve sugar in cold water, but very easy to dissolve in hot water". What is the reason for the above statement?
 (a) Solubility of sugar is very less in cold water
 (b) Solubility of sugar is very high in hot water
 (c) Solubility of sugar increases with increase in temperature
 (d) All of these
20. Grass is separated by Tulsi leaves by the process called _____.
 (a) Winnowing (b) Handpicking (c) Threshing (d) Sieving
21. The given figure shows a process of separation of some impurities from water. What kind of impurities can be removed by using this process?



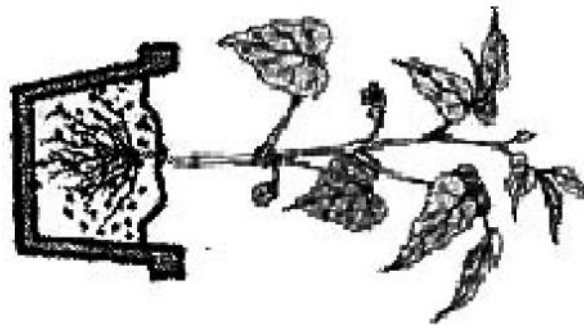
- (a) Clay (b) Mud (c) Both (a) and (b) (d) None of these

22. What are the conditions that favours a chemical change?
 (a) Contact (b) Heat (c) Both (a) and (b) (d) None of these
23. Metals _____ on heating and _____ on cooling.
 (a) Melt, solidify (b) Expand, contract (c) Melt, contract (d) Expand, solidify
24. The symbol for Beryllium is _____ and Scandium is _____.
 (a) Be, Sc (b) B, Sc (c) Be, S (d) B, S
25. In a cloud, the size of the droplets increases causing rainfall because :
 (a) They become heavier (b) They become lighter
 (c) They convert into steam (d) None of these
26. _____ is a metal and _____ is a non-metal which exists in liquid form at room temperature respectively.
 (a) Mercury, Boron (b) Mercury, Bromine (c) Magnesium, Boron (d) Magnesium, Bromine
27. Which of the following gas is used in advertisement signs?
 (a) Helium (b) Neon (c) Argon (d) None of these
28. $^{23}_{11}\text{Na}$ has atomic number _____ mass number _____.
 (a) 11, 23 (b) 23, 11 (c) Both (a) and (b) (d) None of these
29. Rajasthan receives scanty rainfall every year. The people living there store rain water in pits for future use. Which one out of the following pits do they use?
 (a) Clay pit (b) Sand pit (c) Mud pit (d) Cement pit
30. Water consumption for a family of four persons in a month of 30 days is 6000 litres. What is the water consumption per head per day?
 (a) 40 L (b) 50 L (c) 60 L (d) 70 L
31. Plants tend to loose a lot of water in hot weather. Which of the following helps plants to save water?
 I. Shedding leaves
 II. Having spongy stem
 III. Having leaves with waxy surfaces
 (a) I and II only (b) I and III only
 (c) II and III only (d) I, II and III
32. Preserves the health of the skin
 Prevents bleeding of gums
 Found in fruits and vegetables
 Based on the above information, which of the following vitamins is described?
 (a) Vitamin A (b) Vitamin B (c) Vitamin C (d) Vitamin D

33. Which of the following pairs of food classes and examples is NOT correct?

Food classes	Example
(a) Protein	Pulses
(b) Carbohydrate	Rice
(c) Roughage	Vegetable oils
(d) Fat	Cheese

34. A plant is placed outside the laboratory as shown in the figure.



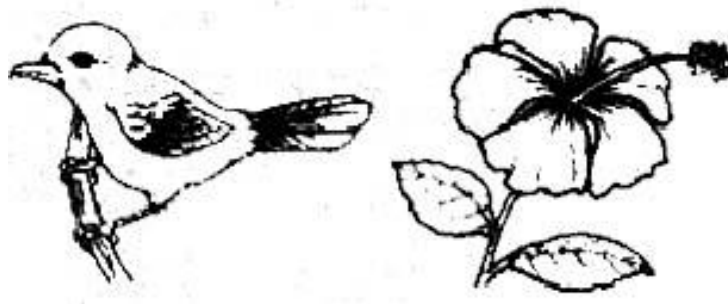
What do you think will happen after one week?

- (a) The roots of the plant will not bend at all
 - (b) The roots of the plant will bend downwards
 - (c) The shoots of the plant will grow upwards
 - (d) Both (b) and (c)
35. Why is it difficult or impossible to degrade non-biodegradable wastes?
- (a) Because non-biodegradable wastes can be recycled
 - (b) Because microorganisms cannot decompose it
 - (c) Because it is a solid waste
 - (d) All of the above
36. Which of the following can manufacture food and supply to other floral parts?
- (a) Sepals
 - (b) Pistil
 - (c) Anther
 - (d) Stigma
37. Which of the following edible roots is/are rich in sugar, protein and carotene?

I.	Carrot
II.	Beetroot
III.	Radish

- (a) I only
 - (b) II only
 - (c) III only
 - (d) I, II and III
38. Shreya placed two drops of a liquid on cooked rice. The rice turned to blue-black in colour. What could be the liquid?
- (a) Benedict's solution
 - (b) Iodine solution
 - (c) Nitric acid
 - (d) Copper sulphate solution

39. Figures given below shows a bird and a plant.

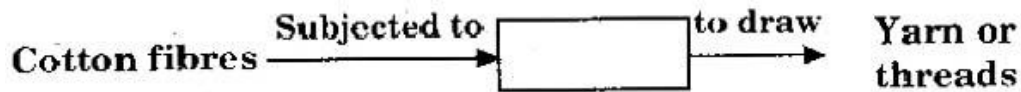


Which of the following classifications is correct about the given organisms?

Bird **Plant**

- (a) Needs space Does not need space
- (b) Needs oxygen Does not need oxygen
- (c) Does not need water
- (d) Does not need sunlight to make food

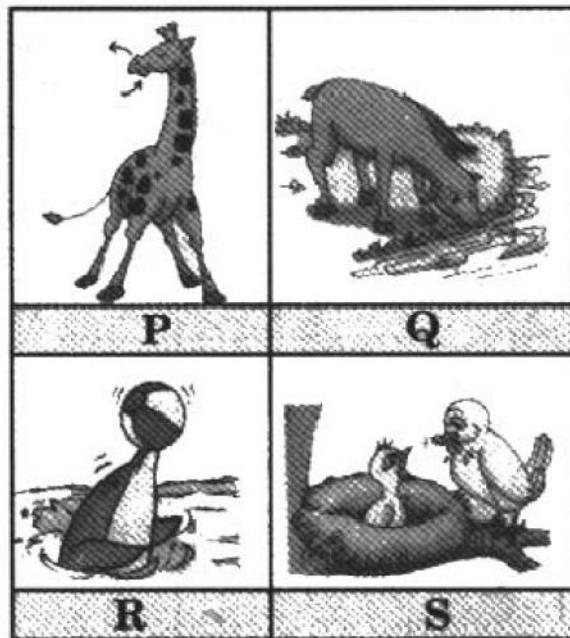
40. The figure given below shows the formation of yarn :-



Which of the following completes the given figure?

- (a) Ginning (b) Weaving (c) Knitting (d) Spinning

41. The figures given below show activities carried out by animals.



Which of the following labelled activities does not show a basic need of animals?

- (a) P (b) Q (c) R (d) S

42. Which of the following classification is correct?

Storage Roots	Storage Leaves
----------------------	-----------------------

- | | |
|------------------|--------|
| (a) Ginger | Onion |
| (b) Sweet Potato | Onion |
| (c) Potato | Cactus |
| (d) Radish | Ginger |

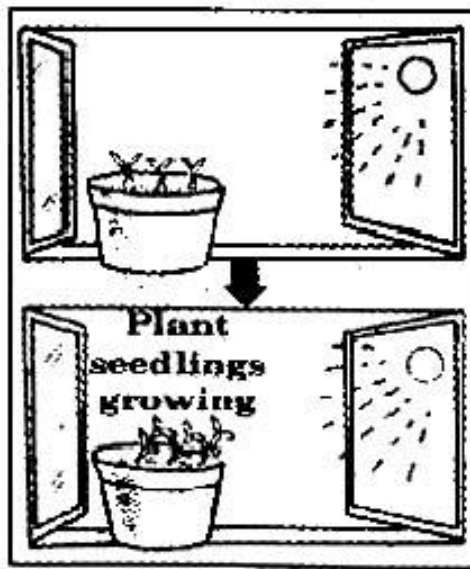
43. Which of the following are the locomotory organs in an earthworm?

- | | |
|---------------------------------|-----------------------------|
| (a) Cilia and muscles | (b) Flagella and moist skin |
| (c) Setae and its body segments | (d) Parapodia and clitellum |

44. Which of the following has fixed bones?

- | | | | |
|-----------|----------|----------|--------------|
| (a) Skull | (b) Neck | (c) Legs | (d) Backbone |
|-----------|----------|----------|--------------|

45. Observe the figure given below :



The seedlings are responding to which of the following stimulus?

- | | | | |
|-----------|--------------|-----------|-------------|
| (a) Touch | (b) Sunlight | (c) Water | (d) Gravity |
|-----------|--------------|-----------|-------------|

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A N S W E R S (Date 27-01-2017)

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|---------|---------|---------|---------|---------|
| 1. (c) | 2. (c) | 3. (c) | 4. (c) | 5. (b) |
| 6. (a) | 7. (a) | 8. (c) | 9. (c) | 10. (d) |
| 11. (b) | 12. (c) | 13. (b) | 14. (c) | 15. (b) |
| 16. (d) | 17. (d) | 18. (d) | 19. (d) | 20. (b) |
| 21. (c) | 22. (c) | 23. (b) | 24. (a) | 25. (a) |
| 26. (b) | 27. (b) | 28. (a) | 29. (d) | 30. (b) |
| 31. (c) | 32. (c) | 33. (c) | 34. (d) | 35. (b) |
| 36. (a) | 37. (a) | 38. (b) | 39. (d) | 40. (d) |
| 41. (c) | 42. (b) | 43. (c) | 44. (a) | 45. (b) |

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