

SSLC SCIENCE –THIRD REVISION EXAMS 2013-14

Time Allowed : 2.30 Hours

Maximum Marks : 75

- Instructions :
- (1) Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.
 - (2) Use Black or Blue ink to write and pencil to draw diagrams

Note : This question paper contains three sections.

SECTION- I (Marks : 15)

- Note :
- (i) Answer all the 15 questions. 15 x1 =15
 - (ii) Choose the correct answer from the alternatives given in the brackets

- 1) Primitive man evolved in - (Africa, America, Australia, India)
- 2) One of the following is transmitted through air. Find out.
(Tuberculosis, Meningitis, Typhoid, Cholera)
- 3) In sexual reproduction of flowering plants, the first event involved in this is
(*fertilization, germination, regeneration, pollination*)
- 4) ----- are called Ammoniatelic animals. (Fish , Birds , Mammals , Insects)
- 5) Example for fossil fuel is (Copper, Iron, Magnesium, Coal)
- 6) Binary Solution contains ----- components. (One , Two , Three , Four)
- 7) Vinegar is present in acetic acid. Curd contains _____ acid
(Lactic acid , Tartaric acid , Malic acid , Citric acid).
- 8) An element which is an essential constituent of all organic compounds belongs to _____ group. (14th group , 4th group , 16th group , 18th group)
- 9) An amalgam is an alloy of metal with ----- (Carbon, Mercury, Hydrogen, Gold)
- 10) IUPAC name of first member of alkyne is
(Ethene , Ethyne , Methane , Ethane)
- 11) The momentum of a massive object at rest is _____.
(very large, very small, zero, infinity)
- 12) Kilowatt-hour is the unit of _____.
(potential difference, electric power, electric energy, charge)
- 13) The potential difference required to pass a current 2 A in a wire of resistance 20 ohm is-----
(100 V, 4 V, 0.01 V, 40 V)

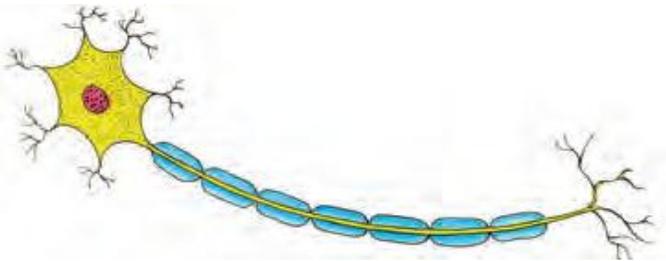
- 14) The field of view is maximum for -----
(plane mirror, concave mirror, convex mirror)
- 15) Electric power can be transmitted over long distance without much loss of energy is an important advantage of
(AC , DC , Both AC & DC , None)

SECTION- II (Marks :40)

II Note : Answer any twenty questions

20x2=40

- 16) Sequentially arrange the different species of man from primitive to modern man.
(Neanderthal man, Homo habilis, Homo erectus, Homo sapiens)
- 17) Prasanna is suffering from common cold. What are the questions you will put forth to Prasanna to confirm the disease?
- 18) Copy the diagram and label any two parts in the group given
(cyton, axon, dendron, endplate)



- 19) Pick out the item which has sequential arrangements
- a. zygotene → Leptotene → Pachytene → Diplotene → Diakinesis
 - b. Leptotene → zygotene → Pachytene → Diplotene → Diakinesis
 - c. Diakinesis → zygotene → Leptotene → Pachytene → Diplotene
- 20) Find the odd one out from the following.
- a) Goitre, Diabetes, Oestrogen, Dwarfism
 - b) Duramater, Chiasmata, Piamater, Arachnoid

- 21) Redraw the diagram and label the following parts.
 a) Exine b) Tube nucleus.



- 22) One of the following groups contains a non mammalian animal.
 Pick up the group.
 a). dolphin, walrus, porcupine, rabbit, bat
 b). elephant, pig, horse, donkey,
 c). antelope, deer, cow, buffalo, black buck
 d). dog, cat, crocodile, lion, tiger monkey

23) Master chemists of our body are ----- . justify.

24) Fill in the blanks.

Excretory organ	Excretory products
Kidneys	-----
Lungs	-----

25) Sugar is converted into alcohol.

- a) From the above statement what kind of process takes place?
 b) Which micro organism is involved?

26) Study the food chain below, correct it and convert into a pyramid of energy.

Grass → Snake → Frog → Grass hopper → Eagle

27) Odd one out

- a. bio alcohol, green diesel, bio ethers, petroleum
 b. cholera, typhoid, scabies, dysentery

28) Match the suitable renewable and non-renewable sources.

Sources	A	B	C
Renewable	coal	wind	petroleum
Non-Renewable	Hydrogen	Natural gas	Solar energy

29) Do not iron wet clothes. Give reasons

30) You have prepared a saturated solution of sugar at a given temperature. Is it possible to dissolve some more grams of sugar to this solution at the same temperature. Give reason.

31) Find the concentration of solution in terms of weight percent if 20 gram of common salt is dissolved in 50 gram of water.

32) Calculate the gram molecular mass of water from the values of gram atomic mass of hydrogen and of oxygen.

Gram atomic mass of hydrogen = 1g, Gram atomic mass of oxygen = 16g

33) Why does the colour of copper sulphate change when an iron nail is kept in it? Justify your answer.

34) Match the following .

Source	Acid Present
Lemon	- Lactic acid
Apple	- Tartaric acid
Grapes	- Citric acid
Curd	- Malic acid

35) Choose the correct answer

Assertion (A) : Greenish layer appears on copper vessels if left uncleaned.

Reason (R) : It is due to the formation of a layer of basic copper carbonate.

a) assertion and reason are correct and relevant to each other.

b) assertion is true but reason is not relevant to the assertion.

36) X is a silvery white metal. X reacts with oxygen to form Y. The same compound is obtained from the metal on reaction with steam with the liberation of hydrogen gas. Identify X and Y.

37) Write down the possible isomers and give their IUPAC names using the formula C_4H_{10} .

38) Fill in the blanks.

a) Force = mass x acceleration, then momentum = _____

b) Liquid hydrogen is for rocket, then _____ for MRI.

39) Correct the mistakes, if any, in the following statements.

a.) One newton is the force that produces an acceleration of 1 ms^{-2} in an object of 1 gram mass.

b.) Action and reaction is always acting on the same body

40) Match the following :

Potential difference - Coulomb.

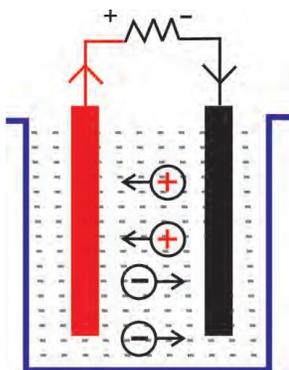
Electric current - Volt

Electric charge - Ohm -

Resistance - Ampere

41) Fuse wire is made up of an alloy of _____ which has high resistance and _____ melting point.

42) Voltaic cell diagram is given below. Label anode and cathode.

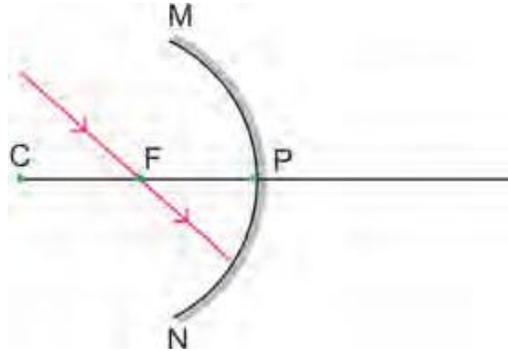


43 Correct the mistakes, if any, in the following statements.

- Magnetic field is a quantity that has magnitude only.
- The magnetic field lines emerge from the south pole and merge at the north pole.

44) The focal length of a concave lens is 2m. Calculate the power of the lens.

45) The ray diagram shown below is introduced to show how a concave mirror forms an image of an object.



- Identify the mistake and draw the correct ray diagram.
- Write the justifications for your corrections

SECTION - III (Marks 20)

4X5=20

Note (i) Answer any four questions by choosing one question from each part.
(ii) Draw diagrams wherever necessary.

PART - A

46) Genetic engineering resulted to a new Branch of Science

- Define genetic engineering.
- What are the benefits of Genetic engineering
- What are the uses of restriction endonucleases and DNA ligase?

47) Kala has delivered a baby,

- Suggest the immunization schedule for the baby, in the first six months
- What are all the diseases that can be cured as per the schedule?

PART – B

- 48) Describe the structure of dicot seed.
- 49) Smoke, smoke everywhere smoke. Do you agree this situation is good for health? List out the harmful effects of coal burning.

PART C

50) Calculate the number of moles in

- a). 12.046×10^{23} atoms of copper
- b). 27.95g of iron
- c). 1.51×10^{24} molecules of CO_2

51) Fill in the blanks using suitable formula in the given table.

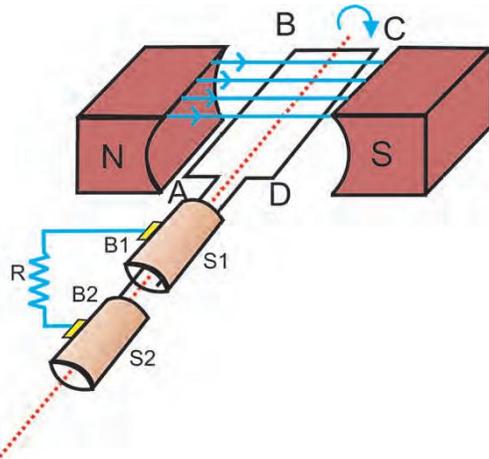
No	Alkane	Alkene	Alkyne
1	C_2H_6 Ethane	----- Ethene	C_2H_2 Ethyne
2	----- Propane	C_3H_6 Propene	----- Propyne
3	C_4H_{10} Butane	----- Butene	----- Butyne

PART D

52) a) $F = G \frac{m_1 m_2}{d^2}$ is the mathematical form of Newton's law of gravitation. Give the statement of Newton's law of gravitation.

b) List out the achievements of Chandrayaan .

53)



a) Re draw the above diagram.

b) This diagram represents _____

c) Label the parts of the diagram.

d) Name the principle by which it works

e) Name the law to find out the direction of the current

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