TIME : 3 HOURS CLASS 8 M.M :90

 SCIENCE

 SAMPLE PAPER -1

***General Instructions:***

* ***The question paper consists of 2 sections – section A and Section B. you are to attempt all the questions***
* ***All questions are compulsory.***
* ***There is no overall choice. However internal choices have been provided in three questions of 2/3 marks category and all the six questions of five marks each.***
* ***All question of section A and section B are to be attempted separately.***
* ***Questions 1 to 4 in section A and questions 28 and 29 section B are multiple choice question and carry 1 mark each.***
* ***Question 5 to 10 in section A and questions 30 to 32 in section B are very short answer type questions and carry 1 mark each.***
* ***Question 11-16 in section A and question 33-35 are short answer type questions and carry 2 marks each.***
* ***Questions 17-23 in section A and question 36 and 37 in section B are also short answer type question and carry 3 marks each.***
* ***Question 24-27 in section A and question 38 and 39 in section B are long answer type question and carry 5 marks each…***

 ***SECTION-A***

Q1) Name the metal used in dentistry...

 a) Copper b) Platinum c) Iron d) Aluminium (1)

Q2) Which chemical is used to remove suspended impurities from muddy water

 a) Iodine b) Stone piece C) Alum d) Sugar (1)

Q3) Two objects A and B are vibrating with different amplitudes . Amplitude of the object

 A is more than that of B . The loudness of the sound produced by object A is...

 a) Less than that of object B b) Greater than that of object B

 c) Same as that of object B d) Independent of its amplitude of vibrations (1)

Q4) If four different colours of light fall parallel to the principal axis of a convex lens , the number of convergence on the axis will be...

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

Q5) The following table gives the colours of light recevied from three stars . arrange these stars in ascending order of their temperature

|  |  |
| --- | --- |
| STAR | COLOUR |
| A | BLUE |
| B | WHITE |
| C | RED |

 (1)

F

Q6) write the name of the property due to which a substance can bear a lot of strain without breaking(1)

Q7) Name the two major sources of water pollution ? (1)

 Q8) Name the nerve that transfer electrical signals from ear to brain ? (1)

Q9) i) Amit is able to do teleconfrencing with his friends in USA.

 II) Metrological department is able to predict the weather. (1)

 Name the spatial device that helps in doing the above two tasks . Give one more application of this device.

Q10) give reason :- Why nitrogen compounds are used as fertilisers ? (1)

Q11) what do you mean by blind spot of the human eye?

 (OR)

 Differentiate between rod and cone shaped cells of human eye (2)

Q12) A ray of light falls at an angle of 55o with the normal on one face of a rectangular glass slab . After refraction it strikes the opposite face of the slab .After refraction it strikes the opposite face of the glass slab , before emerging out into the air it makes an angle of 400 with the normal . Draw a labelled diagram to show the path of this ray. (2)

Q13) (i) What is the name given to the elements having properties of metals as well as non -metals ? Give one example of such element

 (ii) Name the metal which is mixed with gold to make it hard (2)

Q14 ) Write the name of the alloy and its composition which is used for making aircraft bodies

 (OR)

 Explain the following process...

 A) Concentration of ore

 B) Reduction of ore (2)

Q15 ) Shade the circles in the following diagrams on the basis of phases of moon ? (2)

4th day after new moon day

8th day after new moon day

12th day after new moon day

14th day after new moon day

Q16. i)Define polymer. (2)

 ii) Why are man made fibre not preferred in summer and rainy season?

 Q17) i) How is refractive index related to optical density of a medium ?

 ii)Calculate the speed of light in glass.Given the refractive index of glass is 1.5 and speed of light in vaccum is 3\*108 m/s. (3)

Q18) i) The bob of a pendullum oscillates about its mean position such that its complete 20 vibration in 1 minute. Calculate its frequency in hertz.

 ii) Does the sound assosciated with these vibrations,lie in the audible range. (3)

Q19) a)Why do we not hear echoes in our ordinary surroundings.

 b) Why light propagates faster than sound. (3)

Q20) i) What are pointeres?

ii) Rita observes an object which seems the broghtest among the sun and the moon.It is known that its size is nearly same as that of earth and it shows masses like moon.

 a) Identify the planet

 b) What is the sense of rotation relative to that of earth. (3)

Q21)Write the full form of PET?Plastics are very useful materials. Why then there is concern today about their increasing use? (3)

Q22) Anil goes to a village for excursion. He finds the water was unfit for drinking. Give any three methods which we can use to make this water safe for drinking? (3)

Q23) State any three methods to control noise pollutionn in your locality. (3)

Q24) i) State the principle of cinematography.

 ii) What enables us to see the distant as well as nearby objects with same clarity.

 iii) Differentiate between myopic and hypermetropic eyeon the basis of

 a) Size of eye ball

 b) focal length of eye ball (5)

 OR

 i) Name the tactual aid used to help visually challenged person.

 ii) How many dotpatterns does this tctual have?

 iii) Name the defect of vision in which opaque membrane is develoed in front of eye les and how it is corrected?

Q25) i) Name the non metal---

 a) Which is conductor of heat

 b) Which has natural lusture

 ii) on burning a magnesium ribbon in air a powder is formed

 a) Writhe the colour of the compound

 b) Name the compound formed.

 c) State the nature of this compound. (5)

 OR

 (i) GIve reasons:

 a) phosphorous is stored under water.

 b) Metallic pans have wooden handle.

 c) Bells are made up of metals.

 ii) With the help of an activity explain that metals react with oxygen to form basic oxides.

Q26) i) What is rayon?

 ii) Name the raw material used un the prepration of rayon.

 iii) Why it is sometimes called regenerated fibre?

 iv) Give two uses of rayon. (5)

Q27) A Beam of light falling on a glass prism gets split up into seven colours marked 1 to 7 in following diagram

1

2

3

4

5

6

 7

i)Which position corresponds closely to the colour of a)brinjal b) a dnger signal

ii) what is the cause of dipersion of white light?

iii) Name one natural phenomenon asssosciated with dispersion oflight When do we obseve this phenomenon (5)

 OR

i) A Student wants to project the image of a candle flame n the walls of his school laboratory by using lens a) Whuch type of lens shoul be used

so as t get a 1)magnified image

 2) diminshed iamge (5)

ii) Draw a ray diagram to show the formation of magnified image mentioned above.

Q28. Name the female reproductive system does the embryo gets embeded-

 a) oviduct b) ovary c) uterus d) vagina (1)

Q29) What is the function of insulin

a) maintains blood glucose level

b) metamorphosis od tadpols

c) response of body to the stressfull conditions

d)Growth and development of the body (1)

Q30) Define Emascuilation (1)

Q31) Name the implement used for a) crushing the crumbs

 b) ploughing (1)

Q32) Name the harmones secreted by ovaries (1)

Q33) Differeniate between weeds and pests (2)

Q34) a) name the type of reproduction in which offsprings are not the exact copies of their pare

 b) Name the method of asexual reproductionin i) hydra

 ii) plasmodium (2)

Q35) a) What is hatching?

 b) What is incubation period?How temperature of hens egg is maintained during incubation period (2)

Q36)a)Raju has a snow wheat in his field which crop he should sow in the next season to replnish the fertility of soil?Give reason to support your answer?

 b) how was green revolution brought about in india in 1960's?

 OR

A farrmer wants to cultivate rice in his fields answer the following question

i) when should he saw the crop

ii) when should he harvest the crop

iii) How should he saw the seeds

iv) What steps shouls he take after harvesting the crop till he takes them for storage in granaries (3)

Q37) Ankul who was a graduate from punjab agricultural university was visiting his antive village.He observed that his father was storing feshly harvested crop without proper sun drying. Nakul sugested him to dry the crop first and the store it

i)What could be the reason for sun drying?

ii) What values are exibited by nakul

iii) Name two government agencies for large scale storage of grains. (3)

Q38)a)Name three part of the human sperm and mention the function of the tip of head

 b) Why does a child have some characterstics of mother and some of father

 c) Why is fertilisation in humans an example of internal fertilisation.

 OR

 a) Which organ of female reproductive system produces harmones?

 b) Give anny two main functions female reproductive system?

 c) Difference between internal fertilisation and external fertilisation. give ome example of each type (5)

 Q39) a) Name the term for onset of menstrual cyclein human female?

 b) How human male is different from female on the basis of chromosomes?

 c) Do u think that it is right blame mother for the sex of a child? give reason for your answer.

 OR

 a) we know that endocrine glands are ductless then how harmones rech to specific parts where they have to perform their function.

 b) Name the harmone and functions released by following glands--

 i) pitutary gland

 ii) Thyroid gland

 iii) Pancreas

 iv) Adrenal gland (5)