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PRACTICE PAPER

2013-2014

STD:- VIII

Sub: - Science

Time:- 3 Hours

Date:-

Marks:- 90

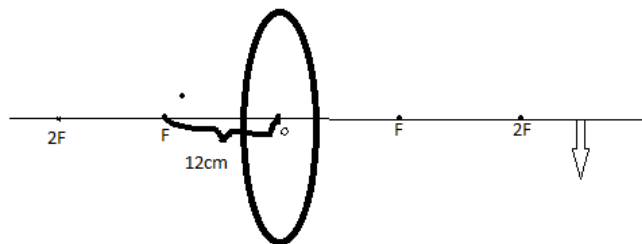
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General Instructions :

1. The question paper consists of 2 sections - Section A (having 27 questions) and Section B (having 12 questions). You are to attempt both the sections.
 2. All questions are compulsory.
 3. There is no overall choice. However, internal choices have been provided in all questions of 5 marks category .
 4. All questions of Section A and all questions of Section B are to be attempted separately.
 5. Questions 1 to 4 in Section A and Questions 28 and 29 in Section B are multiple choice type questions and carry one mark each.
 6. Question 5 to 10 in Section A and 30 to 32 in Section B are very short answer type questions and carry one mark each.
 7. Questions 11 to 16 in Section A and Questions 33 to 35 in Section B are short answer type questions and carry 2 marks each.
 8. Questions 17 to 23 in Section A and Questions 36 and 37 in Section B are also short answer type questions and carry 3 marks each.
 9. Questions 24 to 27 in Section A and Questions 38 and 39 in Section B are long answer type questions and carry 5 marks each
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SECTION- A

1. Potable water should be
 - a. Colourless
 - b. odourless
 - c. tasteless
 - d.all the above
2. Select the correct statement.
 - a. Speed of violet colour is maximum and red colour is minimum.
 - b. Violet colour bends the least during dispersion
 - c. speed of red colour is maximum and violet colour is minimum.
 - d. Dispersion of white light can be seen when it passes through a rarer medium.
3. The fibre which resembles wool
 - a. Terylene
 - b. Rayon
 - c. Acrylon
 - d.Nylon
4. Which of the following facts are true for sound?
 - i. Sound needs a medium for its propagation
 - ii. Sound propagates fastest in gases.
 - iii. Speed of sound is faster than speed of light.
 - iv. sounds with frequencies below 20Hz are called infrasonic sounds.
 - a. Only i
 - b. both i&ii
 - c. both iii&iv
 - d. both i&iv

5. What is the principle behind the treatment of industrial waste?
6. _____ controls the amount of light entering the eye so that the image can be formed on the _____.
7. Why is blind spot of the eye called so?
8. How is calorific value of fuel related to its efficiency?
9. It is not advisable to wear synthetic clothes in science laboratory. Why?
10. What are asteroids?
11. How do agricultural activities contribute to water pollution?
12. Identify the eye defects in the given cases and suggest suitable remedies for the same.
 - a. Image formed behind the retina .
 - b. a thin membrane develops over the lens.
13. Can water become fit for drinking by adding alum or filtering? Justify.
14. The speed of light in a given medium is taken as an indicator of its optical density. Explain.
15. Explain the reason behind the formation of Echo.
16. What would happen if
 - a. we keep a glass tube in the innermost Zone of the flame?
 - b. unburnt carbon particles are released in air?
17.
 - a. Differentiate between tactual aids and auditory aids. Give one example for each.
 - b. Give one application of persistence of vision.
- 18.



- a. Where was the object kept?
 - b. Suppose the object is kept at 24 cm from the lens. Where would you get the image?
 - c. Represent the Principal focus of concave lens with a ray diagram.
19. Predict the consequences in the following situations.
 - a. Auditory nerve gets damaged
 - b. Persistence of hearing does not exist.
 - c. continuous exposure to loudspeakers.

20. Two substances A and B are kept in open air. Substance A caught fire. When substance B was supplied with a small amount of heat, it burnt uncontrollably releasing large amount of heat.

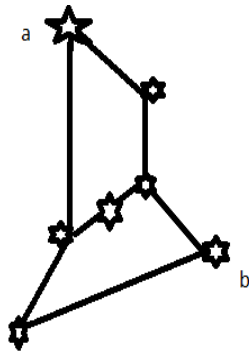
- Name the two substances and the type of combustion exhibited by them.
- Give the reason behind the difference in behaviour of these two substances.

21. Design an activity to compare the tensile strength of cotton and nylon fibres.

22. Explain the reason behind the following facts:

- formation of colourful bands in Jupiter.
- Comets develop a tail only when they come near the sun.
- Geostationary satellites are a boon in the field of communication

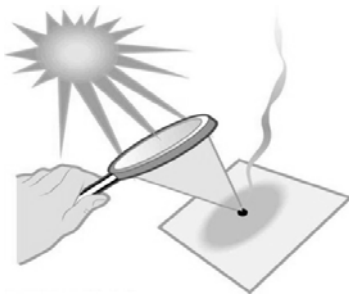
23.



- Identify the constellation.
- Name the stars 'a' and 'b'.
- Draw the constellation- Ursa minor.

24 a.

(2+2+1)



- Depict the following activity with a ray diagram
- Give two points of difference between a real image and a virtual image.
- Give two practical applications of lenses in daily life.

OR

a.

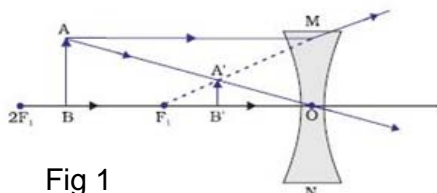


Fig 1

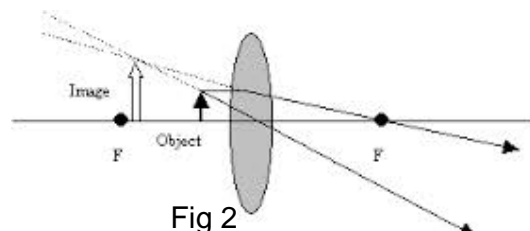


Fig 2

- What is the similarity in nature of image formed in both cases?
 - Which among them is used as a magnifying glass? Why?
 - How is the behavior of optical centre different from other parts of the lens?
- Why does a pond appear shallower than it actually is? Explain.

25. a. Mention 2 measures to limit noise pollution .
 b. People living near railway tracks know well in advance about an approaching train. Give reason.
 c. How does mechanism of production of sound in birds differ from that of human beings?

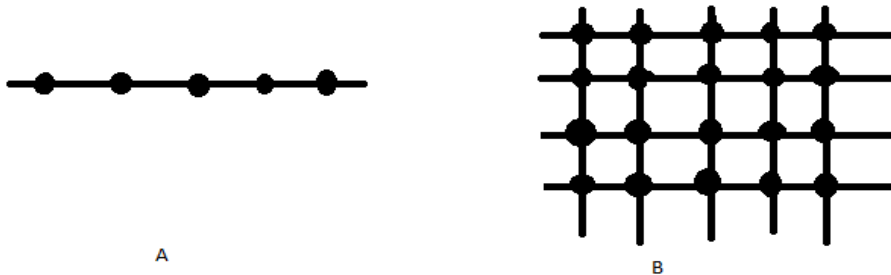
OR

- a. Describe a simple experiment to show sound cannot propagate through vacuum.
 b. What is the effect on the-
 i. loudness of a sound when the amplitude of the vibrating body gets doubled?
 ii. pitch of a sound when the frequency of the vibrating body gets doubled?
26. a. CNG can be considered a good fuel compared to coal. Justify with two points.
 b. Give reasons:
 i. Dry leaves catch fire easily than wet ones.
 ii. Sand can be used as a fire extinguisher
 iii. Incomplete combustion of fuels can cause health hazards.

OR

- a. Write an activity to prove that Non-luminous Zone of flame is hottest Zone.
 (2+2+1)
- b. LPG, Coal, Diesel, wood, petrol
 i) In the above list of fuels, one of them has the lowest ignition temperature. This fuel can be preferred over other fuels due to some of its advantages. Can you suggest two advantages of this fuel?
 ii) How does burning of some of these fuels lead to acid rain?
 c. Why is water not used in controlling electric fires?

27. a. (3+2)



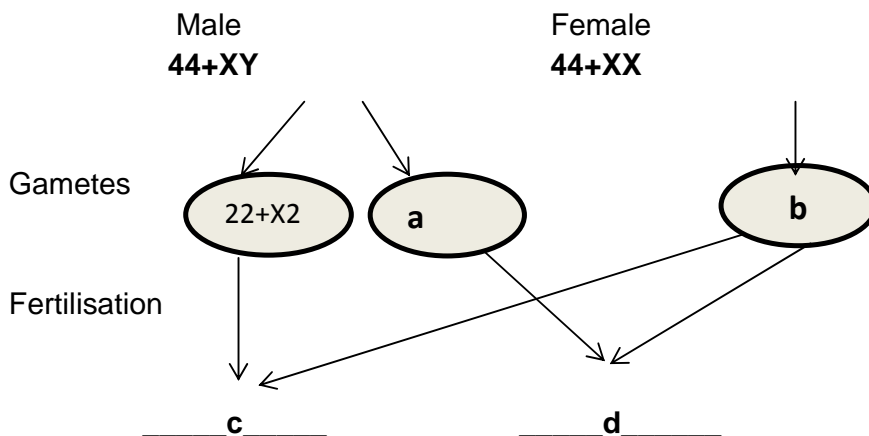
- i) What type of substances do A and B represent?
 ii) Which one of them can be recycled ? Why?
 iii) Give two examples of substance 'B'
- b. Give two advantages and two disadvantages of using plastics .

OR

- a. Rayon was the first artificial fibre created by man, but then why is Nylon called truly artificial fibre?
 b. Name the following:
 i. two fibres used to make tyre cords
 ii. two uses of PET
 iii. two properties of terylene due to which it is used in making conveyor belts and sails of boats.

SECTION B

28. Combine is the farm machine which helps in
a. Threshing and winnowing b. Harvesting and threshing
c. Harvesting and winnowing d. none of the above
29. Which among the following hormones are produced by gonads?
a. Progesterone b. testosterone c. estrogen d. all the above.
30. How does a dog differ from a hen in the type of reproduction?
31. Adrenal gland: Adrenalin:: Pancreas : _____ :: Thyroid : _____
32. Name the two organizations which are involved in storage of grains.
33. What changes occur in the body of a tadpole during its metamorphosis into a frog?
34. Identify the type of Asexual reproduction in the following organisms:
a. Hydra b. Malarial Parasite c. Amoeba d. Yeast
35. Complete the following flow chart which depicts that Father is responsible for the sex of the child.



- Q36. a. Suggest two habits which an adolescent needs to follow for healthy living .
b. What changes happen in female if the ovum in oviduct does not get fertilized?
- Q37. Lakhan a farmer sowed seeds without properly ploughing the field. In order to increase productivity he used fertilizers and irrigated the field by means of canals. Pesticides and weedicides were applied .
Can you suggest three better methods he could have opted and Why?
- Q38. a. Define hybridization. Name one hybrid variety of crop. (2+2+1)
b. What is broadcasting. Give one disadvantage of this method.
c. How do leguminous plants help in maintaining natural fertility of soil.
- OR**
- a. Define transplantation. Give its advantages. (2+3)
b. Explain three eco friendly methods of increasing the fertility of soil.

Q39. a. Draw a neat and labelled diagram of Female reproductive system. (3+2)

b. Give the functions of –i) Oviduct ii) Testis

OR

a. Reproductive pattern in hen is different from that of an elephant. Justify (2+3)

b. Draw the structure of a Human sperm. Why is the head part very significant in its functioning?