



ANNUAL EXAMINATION 2023-24

SUBJECT: SCIENCE

CLASS: VIII

SAMPLE PAPER

Time: 2.5Hr

M.M: 60

GENERAL INSTRUCTIONS:

- All questions are compulsory.
- Section A carries 1 mark each.
- Section B carries 2 marks each.
- Section C carries 3 marks each.
- Section D carries 5 marks each.

SECTION A

Choose the correct answer:

1. Electroplating is based on–
a) heating effect of electricity
b) chemical effect of electricity
c) physical effect of electricity
d) magnetic effect of electricity
2. Which one of the following forces is a contact force?
a) force of gravity
b) force of friction
c) magnetic force
d) electrostatic force
3. A force of 50N is applied on an area of 2 m². Compute pressure being applied to the area.
a) 100 b) 1250 c) 200 d) All are correct
4. The frictional force exerted by fluids is called
a) Drag b) smug c) pascal d) pressure
5. The male gamete or sperm consists of
a) three parts b) two parts c) four parts d) none of these
6. Which of the following is incorrect
a) Girls have high pitched voice
b) Boys have deep voice
c) The voice box of girls is larger than that of boys
d) The voice box of boys can be seen as a wouudmug part of the throat called Adam's apple.
7. Naphthalene balls are obtained from
a) Carbon b) Coke c) Coal tar d) Coal gas
8. 1 hertz is equal to
a) 1 vibration per minute
b) 60 vibrations per minute
c) 10 vibrations per minute
d) 600 vibrations per minute
9. Explosion is the evolution of
a) Heat b) light c) Sound d) All of these
10. Name the areas where animals are protected from any disturbance to them and their habitat.
(a) Sanctuary b) Biodiversity c) Park d) Beach
11. The reduction of rainfall could cause
a) Droughts b) cold c) Greenery d) None of these

12. If you hold a pen in your right hand and stand in front of the mirror, the pen will be in the left hand in the image. This phenomenon is called
 a) lateral inversion b) diffraction c) reflection d) Refraction
13. The maximum displacement of a body from its mean position is called
 a) amplitude b) oscillation c) periodic motion d) frequency
14. The maximum value of force required to make the body just to slide is known as
 a) dynamic friction b) static friction c) limiting friction d) rolling friction
15. During a thunderstorm which action may be done?
 a) Using Telephone having cord
 b) Switching on/off electric lights
 c) Using mobile phone
 d) None of the above

16. The fusion of sperm and ovum usually occur in the
 a) ovary b) uterus c) testes d) oviduct
17. Read the following passage and answer the following questions based on previous knowledge.

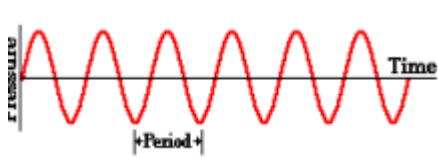
Observe the diagram given under. The diagram depicts that a steady candle flame is introduced on a clean slide. After some time, we observe the black colour in a circular manner on the slide.



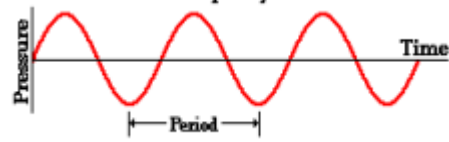
- i) What is represented by the black circular ring?
 ii) What is the chemical nature of the component of black spot?
 iii) Are you able to define unburnt carbon?
 iv) Does candle may cause air pollution? (1×4 =4)
18. Each question consists of two statements, namely Assertion (A) and Reason (R). Select the correct answer for these questions from the codes (a), (b), (c), (d)
- a) Both Assertion (A) and Reason (R) are the true and Reason (R) is a correct explanation of Assertion (A).
 b) Both Assertion (A) and Reason (R) are the true, but Reason (R) is not a correct explanation of Assertion (A)
 c) Assertion (A) is true, and Reason (R) is false.
 d) Assertion (A) is false, and Reason (R) is true.
- i) Assertion: Even if a loud explosion were to take place at any point on the moon, it would not be heard even at nearby points.
 Reason: Unlike the earth, the moon has no atmosphere.
- ii) Assertion: Coal is a fossil fuel.
 Reason: It is formed due to compression of organic material over millions of years.
- iii) Assertion: We apply water between the moving parts of machine to increase efficiency of machine.
 Reason: Lubricants applied on the surface of moving part reduces the friction.
- iv) Assertion: Cheetah, Gaur lion and sloth bear are vulnerable species.
 Reason: Vulnerable species are on high risk of extinction.

19. What enables a ladder to lean against the wall?

20. In the given diagram identify the event in which frequency is more than other. Also give the reason.



(A)



(B)

21. What are the aims of the 'Forest Conservation Act' in India? (Any 2)

22. The angle between incidence ray and reflected ray is 60° . What is the value of angle of incidence.

23. What is the relation between 'time-period' and 'frequency' of an oscillating body?

24. What are the reproductive organs in humans which produce the gametes?

25. What type of fertilization takes place in hen?

26. State any one observation that can be observed when an electric current is passed through an electrolyte in which two electrodes are present.

27. What happens, when an electric current is passed through the copper sulphate solution?

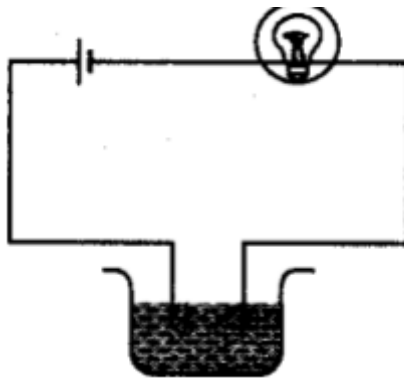
28. Which gland is called master gland?

29. Define the term ecosystem.

30. Name two fractions of petroleum which are used as fuel.

SECTION B

31. Boojho made the circuit given in the figure and observed that the bulb did not glow. On Paheli's suggestion, he added one more cell in the circuit. The bulb now glows. Explain



32. i) What is the name of transparent front part of an eye?

ii) Write a short note on Braille system.

(1+1)

33. Explain the process of fertilisation in human.

34. Differentiate between wildlife sanctuary and zoo.

35. The different types of surfaces have different intensity of friction. The following table shows two types of surfaces. Which one shows high friction and why?



SECTION C

36. i) What is the property of vibration which determines the pitch of the sound?
ii) The sound from a mosquito is produced when it vibrates its wings at an average rate of 150 vibrations per second. What is the time period of the vibration?
iii) Why should we not put a sharp, pointed or hard thing into our ears? (1+1+1)
37. i) Why are endocrine glands also called ductless glands?
ii) What are secondary sexual characters? (1+2)
38. i) What is foetus?
ii) How does a hydra reproduce? (1+2)

SECTION D

39. i) What are the natural calamities caused by earthquakes?
ii) What actually causes lightning?
iii) What do you mean by electric discharge? How does it occur? (1+1+2)