PRE- BOARD EXAMINATIONS

CLASS 10TH SCIENCE

MM: 70

TIME: 3Hrs. 15 Mins.

SECTION A

MULTIPLE CHOICE QUESTIONS

1. Power of lens is -2.5 D. focal length and nature of the lens is:

a. 40 cm , concave
b. 40cm, convex
c. 4 cm , concave
d. 4 cm, convex

2. The most suitable material for making the core of an electromagnet is:

a. Brass b. Soft iron c. Aluminum d.steel

3. The human eye forms the image of an object at its:

a. Iris b. Retina c.Pupil d.Cornea

4. The correct formula of electric power is :

a. $P= IR$
b. $P= I^2R$
c. $P=V^2R$
d. $P= IR^2$

5. Laws of reflection are always true for:

a. Only concave mirror
b. Only convex mirror
c. Only plane mirror
d. All of these

6. The electric current is measured by:

a. Ammeter
b. Galvanometer
c. Electric generator
d. Electric motor

7. Distant point for a normal eye is:

a. 25 cm b. Infinite c.100 cm d.50cm

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8. What is used in fire extinguishers:
a. $NaHCO_3$
b. HCl
c. NaCl
d. $CaCl_2$
9. The bond present in the chlorine molecule is:
a. Ionic bond
b. Single covalent bond
c. Double covalent bond
d. Triple bond
10. The functional group in propanol is:
a. –OH
b. –COOH
c. C=O
d. –CHO
11. Baking powder release which gas on heating:
a. CO_2
b. Na_2CO_3
c. CO
d. O_2
12. The general formula for alkynes is:
a. C_nH_{2n+2}
b. C_nH_{2n}
c. C_nH_{2n-2}
d. C_nH_{2n+1}
13. p H Value of pure water is:
a. 0
b. 1
c. 7
d. 10
14. Which of the following is water soluble?
a. Vit. A
b. Vit. K
c. Vit. D
d. Vit. C
15. Budding is found in:
a. Planaria
b. Hydra

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c. Ascaris
d. None of these

16. Bile juice is secreted in:
a. Gall bladder
b. Liver
c. Pancreas
d. Stomach

17. In plants xylem is responsible for conduction of:
a. water
b. food
c. amino acids
d. oxygen

18. which of the following is not a part of female reproductive system in humans:
a. ovary
b. uterus
c. vas deferens
d. fallopian tube

19. kidney is part of which system in human:
a. nutrition
b. respiration
c. excretion
d. circulation

20. transfer of pollen grains from pollen sac to stigma is called:
a. pollination
b. ovulation
c. fertilization
d. none of these

SECTION – B

DESCRIPTIVE ANSWERS ONLY

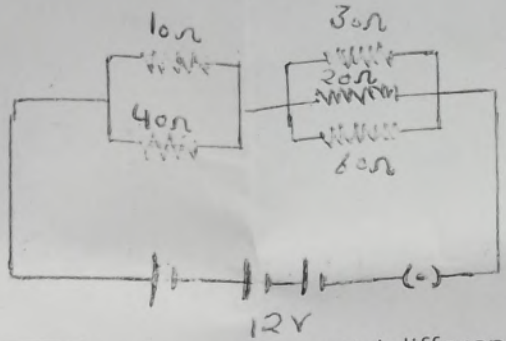
1. draw a ray diagram to show the formation of image when object is placed between focus and optical center in converging lens. [4] beyond 2F,
2. In the circuit diagram given below five resistance of 10 ohm, 40 ohm, 30 ohm, 20 ohm, and 60 ohm are connected as shown to a 12 V battery- [4]

   Calculate:-

   Total resistance

   Total current

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3. Define electric potential and electric potential difference. Also write their units.[4]
4. Given three resistance of 2 ohm, 3 ohm and 6 ohm. What combination shall be used to give the resultant resistance of the value:- [6]
   a. 4.5 ohm
   b. 1.0 ohm
5. Write the structural formula of following: [4]
   a. Propanal
   b. 2- methyl pentatonic acid
   c. Propene
   d. 2- methyl butanol-2
6. Balance the reaction:- [4]
   a. $CH4 + O2 \longrightarrow CO2 + H2O$
   b. $MnO2 + HCl \longrightarrow MnCl2 + Cl2 + H2O$
7. Write short note on following :- [6]
   a. Roasting
   b. Oxidation reaction
   c. Dissociation reaction
   d. Corrosion
8. Write the names of enzymes present in saliva and tell what function it has got. [2]
9. Name the organs by which sexual reproduction in floral parts of plant. [2]
10. Describe excretory system with figure. [4]
11. What is nutrition? Define its types. [4]
12. Describe sexual reproduction in flowering plant with figure. [6]

Or

Draw a labeled diagram of human heart and describe double blood circulation.

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