

Class: 8

F.M. 50

Subject: Science

Attempt all the questions:

**A. Multiple choice questions. 10**

a. What is done first when studying science ?

i. Research    ii. observation    iii. Test    iv. Use

b. What is the full form of URL ?

i. Universe Resource Locator    ii. Universal Rescue Locator

iii. Universal Resource Location    iv. Universal Resource Locator

c. In which form is the energy generated in a cell stored before it distributed to organelles ?

i. DNA    ii. RNA    iii. ATP    iv. RBC

d. Where was the world Earth summit on biodiversity held in 1992 AD?

i. China    ii. Brazil    iii. Japan    iv. Africa

e. What percentage of plant species of the world is found in Nepal ?

i. 1.1%    ii. 10%    iii. 3.2%    iv. 0.1%

f. Which of the given organism reproduces by regeneration ?

i. Plasmodium    ii. Bacteria    iii. Amoeba    iv. Planaria

g. Which of the following is the group organisms that reproduces sexually ?

i. Amoeba , mango ,bird    ii. Fish , butterfly , mustard  
iii. Amoeba , tapeworm , hydra    iv. Frog , liver fluke , bryophyllum

h. What is the SI unit of Force?

i. J    ii. W    iii. N    iv. Pa

i. On which principle is a physical balance based?

i.  $ExLd=LxEd$     ii.  $EXEd= LxLd$     iii.  $EdxLxE$     iv.  $MAxE=MAxL$ 

j. What is the atmospheric pressure at sea level ?

i. 760mmHg    ii. 700mmHg    iii. 750 mmHg    iv. 1000mmHg

**Group B**

Very short answer questions . 8x1=8

a. What is cytology ?

b. Write the types of lever.

c. What is sustainable development ?

d. What is biodiversity ?

e. What is pollination ?

f. How many types of reproduction are there ? Name them .

g. What is an ideal machine ?

h. What is the formula to calculate liquid pressure?

**Group C**

Short answer questions 8x2=16

a. Write the full form of

i. ATM    ii. WiFi

b. Write two differences between self pollination and cross pollination.

c. Name the five kingdoms and give an example of each .

d. Write two differences between in-situ conservation and ex-situ conservation .

e. Write the type of asexual reproduction occur in following Organisms .

i. Amoeba    ii. Hydra    iii. Potato    iv. Mushroom

f. Prove  $P=dhg$ 

g. What is efficiency of machine ? The mechanical advantage of machine is 4 . What does it mean ?

h. Two cars A and B start to move from a reference point in opposite directions with the velocity of 20m/s and 6m/s respectively . calculate the relative velocity of car A with respect to car B . What will be the velocity of car A relative to car B if they move in same direction?

**Group D**

Long answer questions

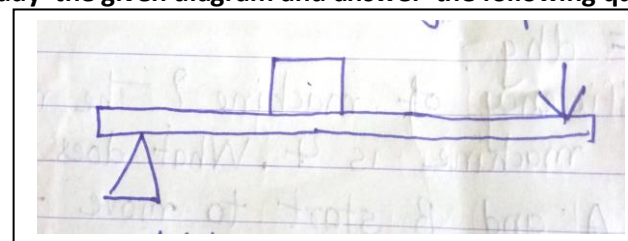
4x4=16

a. What is acceleration ? Write its formula . A bus starts from rest . If the acceleration is  $2\text{m/s}^2$  , calculate the velocity of the bus after 2 second . Calculate the average velocity of the bus.

b. What is lever ? An effort of 150N is required to lift a load of 400N . If effort cover 7.5m distance then calculate mechanical advantage, Velocity ratio and efficiency .

c. What is Social media ? Give examples . Write any two advantages of social media . Write two disadvantages of social media.

d. Study the given diagram and answer the following questions .



**i. Which class lever is this ?**

**ii. Write a use of it .**

**iii. Write two examples of this lever.**

**iv. What class of lever will it be if load and fulcrum are interchanged ?**

**Best of Luck**