



$$
\sec 0
$$

$\therefore$ pell Eavin vicífuive an -
ia) at on yiall Methylere sis:


$$
\begin{aligned}
& \text { 2. water } 0.5 .660) \Rightarrow 111
\end{aligned}
$$

$$
\begin{aligned}
& \text { 4) ,70 }+6 \text { eod } \Rightarrow * x_{1}^{x} \text { shrink } \\
& \text { Whith orant forls. } \\
& \text { * as mosti in filureal: onion. } \\
& 0.5 \% \rightarrow 8283 \text {, कn wink } \\
& 0.9 \%=0 \text { कर义 } \\
& 10 \% \rightarrow \text { playwhy ate fugt } \\
& \text { What }=x \text { phes phest }
\end{aligned}
$$

Exp num $2:=$
Ka) water with mellydore blue
 $.53+0 y b y=0$
B)

$$
\begin{align*}
& \text { pethdish }+1 K I+n \\
& \text { IKI }+1-\cdots \text { istarch }  \tag{0}\\
& \text { ist }
\end{align*}
$$

C) $\mathrm{AgNo} / \mathrm{K} \mathrm{Fd}(\mathrm{CN})_{6} / \mathrm{KBR} / \mathrm{NaOL}$ + Petridish (octort rof dothesen $=$

$$
\rightarrow A=
$$


Piffusiovs in an artiffici cell:
Stouch + qooine Solowhonz
carbohyolrakes.-
$\Rightarrow$ mona
e) di




4 Qxidation State: you $3^{5}=$
1 Pererstate oxadation $x=0$ $\mathrm{Q}_{2}+\mathrm{CH}_{2} \quad \mathrm{O}$
 $S^{2} / l y^{4} \quad=$ at oharge
3) Ancteखियद ?

Activity four:
Molisch Test $\rightarrow \alpha$ nephthad
3) proucose $2 \% \rightarrow$ purple
starch $2 \% \longrightarrow$ pour ple
water $\longrightarrow$ דु
sucrose $2 \% \longrightarrow$ purpl.

IKI + Stach al, $\Rightarrow$ Blue dark black
$1 K F+$ Glycosen $2 y \longrightarrow$ redtram
TKT + Wator:
करो Ron Roedstest
3

> Glo cose: $\longrightarrow$ frickrd
> Fractose $2 \% \longrightarrow$ prikrod $\Rightarrow$ mone Secante
$X$ Sucrose $2 \% \longrightarrow$
$x$ lactose $2 \% \longrightarrow$
$\times$ Maltose $2 \% \longrightarrow$
$x$ 5tarch $2 \% \longrightarrow$
$\times$ water $\longrightarrow$
4) Bendils reagent:
nuick
Exocosei Ired sulat exizx
fractere "s li.. Je
Cachos:- Brick red ge
acfose: Brick red
haltase: Brick red
encmulainut Nocla
stofol ío Chang ilo Chana
Water Mo<hang
 couceh क, क\% डरें $\frac{2}{4+2+4}$
(5) Hae caltse becom red Nith mano $\underset{\leftrightarrows}{ }$ dicur 15 isi

Expfive:-1pre Tdatification by suden III

1) $x$ ylene wécisulver, (Aydophopria-s) no reaction
? E Eorn oil $\rightarrow$ (Lipid) /orang-red ioviesi d)
2.) Conpaision of lipid content in different lapid saurkes
$5 *$ eather $(E)$ - -
4 flour (F) -
3 butter $(B)+++$
3 milk $(M)+$
$2 \operatorname{muls}(N)++$
2) Idonterteation of tipids by emuls

Ethanal $98 \%+\cos$ oil $\Rightarrow$ shak clondy enulsion
lipio drasolve in.
4) By heat
I) egy white solution:Siliver $\Rightarrow$ ficing of and
5) By chemicalse

* water distilled $\Rightarrow$ no reactidia
* ethanol $\Rightarrow$ d, $\Rightarrow$ prexipreatal

* (NH4) $\mathrm{Na}_{3} \mathrm{H}_{3}$ fir for u-1 ver

A TCA $\Rightarrow$ aced , jutaniug anliny?
(1) Id cutification of prafein and foly peptader by Brurat tests +Cubry aígin,
eggwhite $\longrightarrow$ purple.) piptid

$$
\text { glycin } \rightarrow \text { blucolさc? R Rivd }
$$

* DCPIP nasicio (cacressue'vi) (carlessueisi) $v$ cos winnlei Ted
\& $V C+D C P I P \Rightarrow$ color less sedur asestiy

8) IKI+starch $\Rightarrow$ bluin bia + ascorbicisolution $\rightarrow$ diso Iodide canit aftraction wiwh starch $\Rightarrow$ complex $\rightarrow$ color redution

(46) Mothercen

$G_{1}$ First gap
$\mathrm{B}_{2}^{\mathrm{S}} \longrightarrow$ symtheres phase
$\mathrm{B}_{2} \longrightarrow$ econigap

naccleolr $\rightarrow$ sythess of ryp-(ries)
Mitosis $\longrightarrow$ nuctear divisio
eytok inesis : Sytoplaswie atrurs


Exp7:-
matosis meceles of onpon root -
$\begin{array}{ll}\text { 3) Prophase: }-61 & 0.535 \\ \text { 2) Prometaphase : } & 15 \frac{61}{44} \times 15\end{array}$
2) Prometaphasc: $\quad 15 \frac{15}{144}=$ of
3) Mefaphuse: $22 \quad \frac{22}{714}=193$
4) Anaphase - $10=.0877$

STelo phase: 6:053
16 3à $\quad 744$

$$
\begin{aligned}
\tau) .535 & \longrightarrow 8.56 \\
2) 0.132 & \longrightarrow 2112 \\
3) 0.793 & \longrightarrow 3.088 \\
4) 0085 & \rightarrow 1.408
\end{aligned}
$$

$51.053 \longrightarrow 0.848$
oe ?

$$
(1) \xrightarrow{\text { तvi }} \rightarrow
$$

$\square$
HCL
carinoy
4 min

press. put
(squash) (overslip
an-fixation jugel ps carrnay
R(玉it) yés ués ise UVS
リ10
 (van- y $\gg\left(4 g^{2}\right)=+1+5$
onelter कox oxation in we bead;
yeast: $s, i z$


Tissues:
(3) Smooth muscle
(2) Squamous ep i the liuns Human

(3) cardiae muscle

4) Aredar tonective tissue
5) Human Hyalim Cart-loge

6

nner ve tissue.

9) Cuboidal epthelium

8) SKeldal musicte
x

(11) culumsues Eporthetrum

(32) Elastic carfilagt
75)

$$
\begin{array}{|ccccccc}
\text { Bload } & 0 & 0 & 0 & 0 & 0 & \text { Blown } \\
0 & 0 & 0 & 0 & 0 & 0 & 0
\end{array} \quad \text { Slood }
$$

$$
E \times p 10:=
$$

(3) Spirogyra $\Rightarrow$ plant knglome vacuble.
nuclaws chloroplast cell wall
(2) Planaria $\Rightarrow$ Animal kingdome $\Rightarrow$ Hohero Anterpor ! wobs
-
(3) Paramecium $\Rightarrow$ Ratity Anional ike portion

(4) Eyoglena plant like protist Exandiom
(5) Amoeba $\Rightarrow$ Animal like protists

6) Hy dra $\rightarrow$ Ansmath wey Phylum cnidaris gaprvacular covity
 fung;
he
000060 Q (nix) (quer ey, a Eis Sins
(7) bread mold:



Exp10:
A) Male Ascari: :

B) fermale Aicars:


