छत्तीसगढ़ माध्यमिक शिक्षा मण्डल, रायपुर

lEiy&i'u i=

d{kk xii oh

'kjhj fØ;k foKku ,o ikFkfed fpfdRlk

¼fo|kfpr iHkkx½

NÙkhlx< ek/;fed f'k{kk e.My] jk;ipj

i'u & i= dh ;ktuk

Scheme of Question Paper

fo"k;%& 'kjhj fØ;k foKku ,o ikFkfed fpfdRlk i.kkd % 75

¼xg foKku leg½ ¼dkM & 620½ le; % 3 ?kV

ijh{kk % gk;j ld.Mjh ¼12oh½

¼v½ 'k{kf.kd mnn';ksa dk vuqikr eku

(A) Weightage as per Educational objective:

lq Ø0	mnn';		vad	izfr'kr
1-	Kku (Knowledge)		34	45-3%
2-	vocks/k (Understanding)		31	41-7%
3-	vuqi;ksx ,o dk'ky (Application & Skill)		10	13-0%
		;ksx	75	100%

¼c½ bdkbokj vadksa dk eku

lq Ø0	bdkbZ dk uke	bdkbZ ij vkcafVr vad	i'u&i= dk ik:i vuqikr vkcafVr vad
1-	ekSf[kd @ vfLFk @ ikpu lLFkku	17	17
2-	jDr @ 'olu lLFkku	12	12
3-	mRltu @ ukMh lLFkku	10	10
4-	Kkuosafn;k @ ufydkfoghu xfFk;k	13	13
5-	ituu r=	05	05
6-	ikFkfed fpfdRlk	04	04
7-	vfLFkHkx@fo'ks dhVk dk dkVuk @ ?kjy n/kVuk, ,o mipkj	08	08
8-	Ñf=e 'olu @ ftok.k foKku	06	06
9-			
10-			
11-			
12-			

¼l½ dfBukbZ Lrj (Difficulty Level)

lO ØO	mnn';	vd	ifr'kr
1-	ljy (Easy)	30	40%
2-	vkSlr (Average)	34	45%
3-	dfBu (Difficult)	11	15%
	;kx	75	100%

¼n½ i'ui= fn'kk fun'k ,oa fodYi ;kstuk %&

(Instruction's & Scheme of Option for Question Paper)

- oLrfu"B i'u e ¼05½ cgfodYih; i'u rFkk ¼05½ fjDr LFkku dh ifr@mfpr tkMh cuk, dk i'u fn;k tkoxk vkj ;g iR;d lV e i'u Øekd 1 gkxk A
- iR;d lV e 1] 2 ,oa 3 vdk d i'uk e fHkUurk jgxh A leLr 04 vd ;k bll vf/kd vdk d y?kmÙkjh; rFkk nh?kmÙkjh; i'uk e fodYi fn;k tkuk g A fodYi i'u mlh bdkbZ l rFkk leku mnn';k d jgx A 04 vd ;k bll vf/kd vdk d i'u iR;d lV e ,d leku jgx A
- vf/kdre mÙkj lhek vfry?kmÙkjh; ½2 vd@30 'kCn½ ¼3 vd@50 'kCn½
  y?kmÙkjh; ¼4 vd@75 'kCn½ ¼5 vd@150 'kCn½
  nh?kmÙkjh; ¼6 vd ;k vf/kd@250 'kCn½

i'u & i= dk CyfiUV

Blue Print of Question Paper

fo"k;%& 'kjhj fØ;k foKku ,o ikFkfed fpfdRlk i.kkd % 75

¼xg foKku leg½ ¼dkM & 620½ le; % 3 ?kV

ijh{kk % gk;j ld.Mjh ¼12oh½

bdkbl-Ø-	bdkb	bdkb ij vkcfVr vd	vdokj i'u							dy i'u vd
			1 vd	2 vd	3 vd	4 vd	5 vd	6 vd	6 vd ;k bll vf/kd	
1	ekli'kh @ vfLFk @ ikpu lLFkku	17	1	2	2	&	&	1	&	17
2	jDr @ 'olu lLFkku	12	1	1	&	1	1	&	&	12
3	mRltu @ ukMh lLFkku	10	&	1	&	2	&	&	&	10
4	KkufUn;k @ ufydkfoghu xfFk;k	13	2	&	&	&	1	1	&	13
5	ituu r=	5	&	&	&	&	1	&	&	5
6	ikFkfed fpfdRlk	4	&	&	&	1	&	&	&	4
7	vfLFkHkx @ fo"ky dhVk dk dkVuk @ ?kjy n?kVuk,a ,o mipkj	8	2	&	2	&	&	&	&	8
8	Ñf=e 'olu @ thok.k foKku	6	4	1	&	&	&	&	&	6
9										
10										
11										
12										
	;kx	75	1 ¼10½	5	4	4	3	2	&	19@ 75

Set - A

gk;j ld.Mjh Ldy lVhfQdV ijh{kk

Higher Secondary School Certificate Examination

lEiy&i'u i=

SAMPLE PAPER

fo"k; %& (Subject) - 'kjhj fØ;k foKku ,o ikFkfed fpfdRlk

le; 3 ?k.Vk (Time- 3 Hrs)

d{kk %& (Class) - ckjgoh ¼12oh½ **i.kkd 75 (M.M.)**

(Instruction) & ¼fun'k½

1- lHkh i'u gy djuk vfuok;g A
Attempt all the Question

2- i'u Øekd 01 e 10 vd fu/kkfjr g A nk mi[k.M g A [k.M ^^v** e 05 cgfodYih; i'u rFkk [k.M ^^c** e 05 fjDr LFkkuk dh ifr vFkok mfpr lc/k tkfM, A iR;d i'u d fy, 1 vd vkcfVr g A
Q. No. 01 Carries 10 Marks. There are two sub-section, Section A is Multiple choice carries 05 marks and section B is fill in the blanks or match the column carries 05 marks.

3- i'u Øekd 02 l i'u Øekd 06 rd vfr y?kmRrjh; i'u g A iR;d i'u ij 02 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 30 'kCn A
Q. No. 02 to 06 are very short answer type question & it carries 02 marks each. Word limit is maximum 30.

4- i'u Øekd 07 l i'u Øekd 10 rd y?kmRrjh; i'u g A iR;d i'u ij 03 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 50 'kCn A
Q. No. 07 to 10 are short answer type question & it carries 03 marks each. Word limit is maximum 50.

5- i'u Øekd 11 l i'u Øekd 14 rd y?kmRrjh; i'u g A iR;d i'u e vkrfjd fodYi g vkj iR;d i'u ij 04 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 75 'kCn A
Q. No. 11 to 14 are short answer type question & it carries 04 marks each. Each question has internal choice. Word limit is maximum 75.

6- i'u Øekd 15 l i'u Øekd 17 rd nh?kmRrjh; i'u gA iR;d i'u e vkrfjd fodYi g vkj iR;d i'u ij 05 vd vkcfVr gA mRrj dh vf/kdre 'kCn lhek 75 'kCn A

Q. No. 15 to 17 are long answer type question & it carries 05 marks each. Each question has internal choice. Word limit is maximum 75.

7- i'u Øekd 18 l i'u Øekd 19 rd nh?kmRrjh; i'u gA iR;d i'u e vkrfjd fodYi g vkj iR;d i'u ij 06 vd vkcfVr gA mRrj dh vf/kdre 'kCn lhek 150 'kCn A

Q. No. 18 to 19 are long answer type question & it carries 06 marks each. Each question has internal choice. Word limit is maximum 150.

i'u 1&¼v½ **lgh fodYi pudj fyf[k; &** (1x5=5)

Write the correct choice-

(i) ,fPNd if'k;k dk ---------- if'k;k Hkh dgr g &

¼v½ jf[kr ¼c½ vjf[kr

¼l½ gn; ¼n½ dkb Hkh ugh

Voluntary muscles are also called ..... muscles.

(a) Striped (b) Unstriped

(c) Cardiac (d) None of them

(ii) ---------- dk 'kjhj dk flikgh dgk tkrk g &

¼v½ yky jDr df.kdk ¼c½ 'or jDr df.kdk

¼l½ fcEck.k ¼n½ lhje

..... are called police of the body.

(a) Red blood corpuscles (b) White blood corpuscles

(c) Thrombocytes (d) Serum

(iii) 'kjhj d ftu vxk }kjk ge lonukvk dk Kku gkrk g mUg---------- dgr g&

¼v½ KkufUn;k ¼c½ ?kk.kfUn;k

¼l½ ikpu r= ¼n½ rf=dk r=

The organs through which we get the knowledge of impulses are called ..... .

(a) Sense organs (b) Oltactory organs

(c) Digestive system (d) Neuron.

(iv) ikxy dRr d dkVu l gku oky jkx dk ---------- dgr g &

¼v½ jcht ¼c½ cjh&cjh

¼l½ fjdVl ¼n½ dkb ugh

The disease is called ..... caused by the bite od mad dog

(a) Rabies (b) Beri-Beri

(c) Rickets (d) Non of these

(v) /keuh l jDr L=ko gku ij jDr dk jx ---------- gkrk g &

¼v½ cxuh yky ¼c½ pedhyk yky

¼l½ gjk ¼n½ bue l dkb ugh

The colour blood is ..... which bleeds from the artery.

(a) Voilet red (b) Bright red

(c) Green (d) None of these

¼c½ **fjDr LFkkuk dh ifr dhft;s &** ¼1x5=5)

Fill in the blank -

(i) thok.k dh [kkt lu 1683 e ---------- u dh Fkh A

..... discover the bacteria in the year 1683.

(ii) ne ?kVu ij 0;fDr lk/kkj.k :i l 'olu ugh y ikrk g ,lh voLFkk e ml ---------- 'olu dh vko';drk gkrh g A

On suffocation, a man can not have normal respiration at this stage, ... respiration is required.

(iii) uotkr f'k'k dk Ñf=e 'olu nr le; ckyd dk 'kjhj ---------- e jgrk gA

The body of the infant in to keep in ..... while giving artificial respiration.

(iv) Ñf=e 'olu dh ---------- fof/k fo'k"k :i l ilyh dh gfMM;k VVu ij mi;kx e yk;h tkrh g A

..... method of artificial respiration is special used at ribs fracture.

(v) ---------- dk jkdu d fy, VuhdV dk i;kx fd;k tkrk g A

Turniquet is used to stop the ..... .

i'u 2& vfLFk lLFkku l D;k rkRi;Z g \ vfLFk d idkj fyf[k; A ¼1$1¾2½

What do you mean by skeletal system ? Write the types of bone.

i'u 3& ekl if'k;k d dk; fyf[k; A ¼1$1¾2½

Write the function of muscles

i'u 4& 'or jDr df.kdkvk d dk; fyf[k; A ¼1$1¾2½

Write the function of white blood corpuscles.

i'u 5& mRlth vx D;k g \ vxk d uke fyf[k; A ¼1$1¾2½

What is excretory organ ? Write their names.

i'u 6& Ñf=e 'olu l vki D;k le>r g \ fof/k;k d uke fyf[k; A ¼1$1¾2½

What do you mean by artificial respiration ? Write the name of methods.

i'u 7& ,fPNd ,o vufPNd if'k;k e vUrj fyf[k; A ¼3½

Write differances between voluntary and involuntary muscles.

i'u 8& e:n.M d dk; fyf[k; A ¼3½

Write the function of spiral cord.

i'u 9& vfLFk Hkx d dk; fyf[k; A ¼3½

What is bone fracture ? Write it main characteristics.

i'u 10& tyuk ;k >yluk l D;k rkRi; g \ tyu ij D;k mipkj djxh\ ¼1$2¾3½

What do you mean by burning ? what treatment will be given on burning ?

i'u 11& /keuh rFkk f'kjk e vrj fyf[k; A ¼4½

Write the differences between artery and vain.

^^vFkok** (OR)

jDr d dk; fyf[k; A

Write the function of blood.

i'u 12& e= mRlu r= dk LoPN ukekfdr fp= cukb; A ¼4½

Draw a neat labelled diagram of excretory system.

^^vFkok** (OR)

Ropk dk ukekfdr fp= cukdj Ropk d dk; fyf[k; A

Write the function of skin and draw its labelled diagram.

i'u 13& eu"; d efLr"d d fofHkUu Hkkxk d dk; fyf[k; A ¼4½

Write function of different parts of the human brain.

^^vFkok** (OR)

ukMh dkf'kdk dh jpuk dk fp= lfgr le>kb; A

Explain the structure of neuron with diagram

i'u 14& ikFkfed fpfdRlk D;k g \ bld ie[k fl)krk dk le>kb; A ¼1$3¾4½

What is first aid ? explain its main principles.

^^vFkok** (OR)

ikFkfed fpfdRlk e ifVV;k fdru idkj dh gkrh g \ iVVh ck/ku d mnn';k dk fyf[k; A

What are the types of bandage in first aid ? Write the objective of putting bandage.

i'u 15& gn; dh jpuk ,o dk;fof/k dk o.ku dhft, A ¼5½

Describe the structure and function of heart.

^^vFkok** (OR)

QQMk dh ljpuk dk o.ku djr g, QQMk e jDr 'kf)dj.k dh ifØ;k dk le>kb; A

Describe the structure of lungs along the process of blood purification in the lungs.

i'u 16& ufydk foghu xfFk;k fdl dgr g \ ih;"k xfFk l L=kfor gku oky gkekUl dk o.ku dhft, A ¼5½

What are ductless glands ? describe about the harmone decreted by pitutiary gland.

^^vFkok** (OR)

Fkk;jkfDlu gkeku dh deh ,o vf/kdrk l dku&dku l jkx gk tkr g \ le>kb; A

What diseases are caused by less or more secretion of thyroxine harmone.

i'u 17& i:"k d tuukxk dh foopuk djr g, dk; le>kb; A ¼5½

Analys about male reproductive organs and explain its functions.

^^vFkok** (OR)

eknk tuukxk d dk; le>kb; A

Explain the function of female reproductive organs.

i'u 18& vkgkj uky dk ukekfdr fp= cukdj vkgkj ufydk e gku oky ikpu fØ;k dk foLrkj l le>kb; A

Explain the digestive process in alimentry canal with the help of labelled diagram of alimentary canal.

^^vFkok** (OR)

if'k;k fdru idkj dh gkrh g lfp= le>kr g, if'k;k d dk; fyf[k; A

Explain the function of muscles with diagram and also write about their types.

i'u 19& dku dh jpuk fp= lfgr le>kb; A

Explain the structure of ear with diagram.

^^vFkok** (OR)

vk[k dk ukekfdr fp= cukdj mldh jpuk fyf[k; A

Write the structure of eye with labelled diagram.

&&00&&

^^lEiy mRrj**

mRrj 1&¼v½ oLrfu"V i'u ¼1x5=5½

(i) & ¼v½ jf[kr i'kh

(ii) & ¼c½ 'or jDr df.kdk

(iii) & ¼v½ KkufUn;k

(iv) & ¼v½ jcht

(v) & ¼c½ pedhyk yky

¼c½ fjDr LFkku ¼1x5=5½

(i) ,UVkuh oku Y;ou gkQ

(ii) Ñf=e 'olu

(iii) xeikuh ¼105°F rki ij½

(iv) ykckM fof/k

(v) jDr L=ko

mRrj 2& 'kjhj dk ln<rk vkj fuf'pr vkdkj inku dju r= dk vfLFk lLFkku ;k ddky r= dgr g A

ekuo 'kjhj e LFkku] dk; vkj cukoV d vk/kkj ij pkj idkj dh vfLFk;k ik;h tkrh g tk fuEufyf[kr g &

¼1½ yEch vfLFk;k & gkFk ,o ijk e ik;h tkrh g A

¼2½ piVh vfLFk;k & flj] dU/k] dYg dh vfLFk;k A

¼3½ NkVh vfLFk;k & dykb ,o V[ku dh vfLFk;k A

¼4½ vleku vfLFk;k & jhM] tcMk] rky dh vfLFk;k A ¼1$1¾2½

mRrj 3& ekl if'k;k d fuEufyf[kr dk; g &

¼1½ 'kjhj dk xfr inku djuk & ekl if'k;k d lg;kx l pyuk] nkMuk] gluk ckyuk] [kkuk lHko g A

¼2½ 'kjhj dh j{kk djuk & etcr rUrvk vkj ulk l ek'k if'k;k gfMM;k dk ljf{kr j[krh g A bl idkj ddky d Hkhrj fLFkr dkey vxk dh j{kk Hkh gk tkrh g A ¼iR;d fcn ij 1 vd ¾2½

¼3½ 'kjhj dk lMky vkj vkd"kd cukuk A

¼4½ vklu fLFkj djuk A

¼5½ lg;kx nu dk dk; & dkey vxk dk lgkjk inku djrh g A

¼6½ 'kjhj dk m".krk inku djuk & if'k;k 'kjhj dk Åtk inku djrh g ftl 'kjhj dh m".krk cuh jgrh g A

mRrj 4& 'or jDr df.kdkvk d dk; fuEufyf[kr g &

¼1½ jkxk.kvk dk Hk{k.k djuk A

¼2½ 'kjhj j{kk d fy, jf{kr {k= r;kj djuk A ¼1$1¾2½

mRrj 5& 'kjhj e ifr{k.k ,fPNd ,o vufPNd fØ;k; gkrh jgrh g bu fØ;kvk d QyLo:i Årdk e VV&QV gkr jgr g A bu VV&QV d dkj.k 'kjhj e dN fotkrh; inkFk dk fuek.k gkrk jgrk g tl dkcuMkb vkDlkbM] ty] ;fj;k] ;fjd ,flM vkfn A ; inkFk 'kjhj d fy, gkfudkjd gkr g vr% budk 'kjhj l ckgj fudkyuk vR;Ur vko';d gkrk g bu fotkrh; inkFkk dk ftu vxk d }kjk 'kjhj l ckgj fudkyk tkrk g mu vxk dk mRlth vx dgr g A mRlth vx fuEu g & ¼1$1¾2½

¼1½ cMh vkr

¼2½ QQM

¼3½ oDd

¼4½ Ropk

mRrj 6& Ñf=e 'olu & vDlj ikuh e Mc tku ij vFkok ne ?kVu ij 0;fDr lk/kkj.k :il 'olu ugh y ikrk ,lh voLFkk e Ñf=e 'olu dh vko';drk gkrh gA Ñf=e 'olu dh pkj fof/k;k g A

¼1½ 'kQj fof/k ¼1$1¾2½

¼2½ flYoLVj fof/k

¼3½ ykckM fof/k

¼4½ e[k l e[k dh fof/k A

mRrj 7& ,fPNd ,o vufPNd if'k;k e vUrj

	,fPNd i'kh	**vufPNd i'kh**
1-	bu if'k;k dh fØ;k gekjh bPNk ij fuHkj djrh g A	1- ; viuk dk; Lor= :il djr gA

2- ; mRrd yEch rFkk iryh gkrh g A

3- ; vf/kdk'kr% vfLFk;k e yxh gkrh g A

4- ; lDr o etcr gkrh g A

2- ; nkuk fljk ij ukdnkj gkr g A

3- ; vf/kdk'kr% 'kjhj r=k dk fuek.k djrh g A

4- ; vR;Ur dkey gkrh g A

¼dkb Hkh 3 fcn ij 3 vd½

mRrj 8& e:n.M d fuEufyf[kr dk; g &

¼1½ e:n.M dh ikyh uyh e l"kEuk ljf{kr jgrh g A

½2½ e:n.M d dkj.k flj lk/kkj.k fLFkfr e jgrk g A vdMh gb ;k <hyh&<kyh fLFkfr e ugh jgrk A

¼3½ 'kjhj dh lHkh vfLFk;k fdlh u fdlh :i e e:n.M l tMh jgrh g A

¼4½ e:n.M d yphy iu d dkj.k /kM ij gku oyk vk?kkr l efLr"d dk pkV ugh igprh g A

¼5½ e:n.M d VMiu d dkj.k flj ij ck> ;k lryu cuk; j[kk tk ldrk gA

¼6½ e:n.M d dkj.k vfLFk cU/k vkj Luk;cU/kuk dk vk/kkj feyrk g A ¼½x6=3½

mRrj 9& vfLFk Hkx& vlkekU; xfr djr le; dBkj oLr d igkj l vfLFk dh lkekU; fujUrjrk lekIr gk tkrh g ml vfLFk Hkx dgr g A

vfLFk Hkx d y{k.k fuEukulkj g &

¼1½ vfLFk Hkx oky LFkku ij ihMk gk gkrh g A

½2½ ltu vk tkrh g A

¼3½ ml Hkkx dh dk; 'kfDr lekIr gk tkrh g A

¼4½ ml LFkku dk LokHkkfod vkdkj cny tkrk g A

¼5½ VVh gb gMMh okyk vx vLokHkkfod <x l fgyrk&Myrk g A

¼6½ lEi.k 'kjhj e detkjh] f'kfFkyrk egll djrk g A

¼7½ jkxh dHkh&dHkh efNr gk tkrk g A ¼1$2¾3½

mRrj 10& tyuk vFkok >yluk& mcyr ikuh] Hkki] rtkc] fctyh] xe ykgk l 'kjhj ty tkrk g A tyu dk vFk lkekU;r% Ropk dk >yl tkuk] QQky iMuk ;k Ropk dk ijk ty dj xgjkb e fLFkr vU; vxk dk Hkh gkfu igp tkrh g A

tyu ij mipkj&

¼1½ tyu ij QQkyk dk QkMuk ugh pkfg, A

¼2½ {kkjh; inkFk l ty tku ij fLiV eyu l vkjke feyrk g A

¼3½ jkxh d diM ,o tr mrkj nuk pkfg, A

¼4½ jkxh dk n0; inkFk dkQh ek=k e ihu dk nuk pkfg, A

¼5½ rtkc l tyu ij vekfu;k l /kk yuk pkfg, A

¼6½ ty g, vx ij lkQ :b j[kdj gYdh iVVh ck/kdj jkxh dk vLirky igpkuk pkfg, A

¼7½ cjuky ejge dk mi;kx ty g, Hkkx ij djuk pkfg, A ¼1$2¾3½

mRrj 11& /keuh rFkk f'kjk e vUrj fuEukulkj g &

	/keuh		f'kjk
1-	/keuh dk jx yky xykch gkrk g A	1-	budk jx uhyk gkrk g A
2-	; 'kjhj ij xgjkb ij fLFkr gkrh g A	2-	; 'kjhj d ckgjh vkj ik;h tkrh g A
3-	; jDr vHkko e fipdrh ugh g A	3-	jDr fudyu d ckn fipd tkrh g A
4-	budh nhokj ekVh ,o yphyh gkrh gA	4-	budh nhokj iryh ,o de yphyh gkrh g A
5-	bue jDr >Vd lkFk cgrk g A	5-	/kheh xfr l cgrk g A
6-	Q¶Ql /keuh d vfrfjDr lc e 'k) jDr gkrk g A	6-	Q¶Ql f'kjk dk NkM dj lHkh e v'k) jDr jgrk gA
7-	/kefu;k e dikV dk vHkko gkrk g A	7-	f'kjkvk e dikV gkr g A
8-	/kefu;k dk 0;kl de gkrk g A	8-	f'kjkvk dk 0;kl vf/kd gkrk g A ¼½x8=4½

^^vFkok**

jDr d dk;k dk o.ku dhft ; &

¼1½ 'olu d fy, vko';d xlk dk ifjogu & jDr 'kjhj d iR;d Hkkx dh dkf'kdkvk e vkDlhtu igpkuk vkj ogk l dkcu Mkb vkDlkbM okil ykdj

QQMk rd igpku dk dk; djrk g A

½2½ HkkT; inkFkk dk ifjogu& jDr Hkk tu l vo'kkf"kr fd; x; ikf"Vd rRok dk 'kjhj d iR;d vx rd igpku dk dk; djrk g A

½3½ vif'k"V inkFkk dk fu"dklu & jDr p;kip; dh fØ;kvk e cuu okyh vof'k"V inkFkk dk mRl td vxk rd igpku dk dk; djrk g A tl& oDd] QQM] vkr vkfn rd A

½4½ 'kjhfjd rki dk fu;eu& dkf'kdkvk e vkDlhtu igpk dj tk vkDlhd.k dh fØ;k gkrh g A ml l 'kjhj e xeh mRiUu gkrh g A jDr 'kjhj d vkUrfjd Hkkxk l xeh ydj ckgjh Hkkxk rd igpkrk g vkj lEi.k 'kjhj dk rkieku leku cuk; j[krk g A

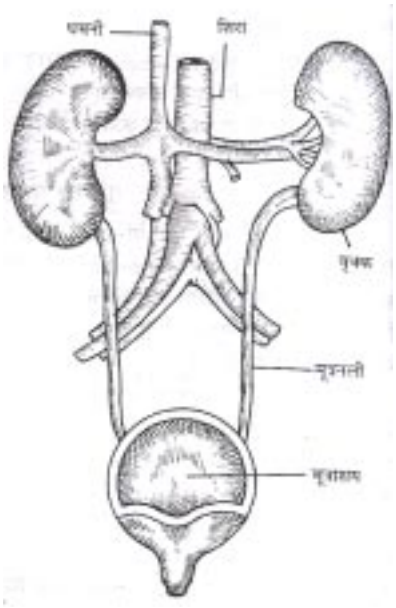
½5½ 'kjhj d fofHkUu xfFk;k l tk L=ko mRiUu gkr g jDr mudk fufer dju d fy, mi;Dr inkFk igpkrk g A

½6½ jDr gkekUl] foVkfeUl ,o vU; vko';d jlk;uk dk mud fØ;k dju oky LFkku ij igpkdj okgu dk dk; djrk g A

½7½ 'kjhj e db j{kkRed dk; djr g tl 'or jDr df.kdk jkxk.kvk dk Hk{k.k dj 'kjhj dk jkxk l cpk; j[krk g A

mRrj 12& e= mRl tu r= dk LoPN ukekfdr fp=&

¼fp= ij 3 vd] ukekdu ij 1 vd½



^^vFkok**

Ropk dk ukekfdr fp=&

-त्वचा की काट का रेखा चित्र

¼1 vd fp= ij] 1 vd ukekdu ij½

Ropk d dk; & ¼dkb Hkh 2 fcn ij 2 vd½

¼1½ Li'k Kku& Ropk Li'kfUn; g bll fofHkUu lonukvk dk Kku gkrk g A

¼2½ vfHk'kk"k.k& Åijh Ropk ij nokb ;k ry bR;kfn yxk;k tk; rk bl Ropk vfHk'kkf"kr dj yrh g A

¼3½ ilhu dk mRltu& ilhu d :i e fo"ky o 0;Fk inkFk dk Ropk mRlftr dj nrh g A

¼4½ 'kjhj dk rkiØe lkekU; cuk; j[kuk A

¼5½ lj{k.k& 'kjhj Hkhrjh ukt d vxk dk lj{k.k inku djrh g A

¼6½ foVkfeu Mh r;kj djuk & l; idk'k dh lgk;rk l Ropk foVkfeu Mh dk fuek.k djrh g A tk gfMM;k o nkrk dh etcrh d fy, vko';d g A

mRrj 13& ukMh lLFkku dk lcl cMk Hkkx g tk [kkiMh d vUnj fLFkr gkrk g A efLr"d d pkj Hkkx gkr g efLr"d d Hkkxk d uke ,o mud dk; fuEuku lkj g&

¼1½ **lfjce&** ;g efLr"d dk lcl cMk Hkkx g ;g nk xkyk)k e cVk gkrk g&

dk;& ¼1½ ijd dUn& ; i'kh; lLFkku dh lHkh ,fPNd if'k;k ij vf/kdkj j[kr g A

¼2½ lonuk dUn& ble Ropk ,o if'k;k] vfLFk rFkk tkMk dk lonuk ikIr gkrh g A

¼3½ fof'k"V lonuk dUn& n[ku] luu] l?ku] Lokn rFkk Li'k dk dUn g A

¼4½ mPp ekufld {kerkvk d dUn& pruk] Lej.k 'kfDr cf)erk] foopu 'kfDr vkfn dk dUn A

¼2½ **ljhcye&** ;g ljhce l NkVk rFkk mld uhp fLFkr gkrk g A

dk;& ¼1½ 'kjhj dk lryu cuk; j[kuk A

¼2½ if'k;k d dk; e leUo; A

¼3½ i'kh; xfr dk fu;f=r djuk A

¼3½ **ikUl cjkykb&** bud dk; fuEu g &

¼1½ fHkUu fHkUu Hkkxk l l"kEuk l gkdj tku okyh lonuk; ;gh l gkdj eflr"d dh vkj tkrh g A

¼4½ **eM;yk vkCykxVk&** efLr"d d lcl uhp dk Hkkx g A ;g 'kjhj dk egRoi.k vx g A

dk;& ¼1½ jDr ifjlpj.k] fuxyu dh fØ;k] gn; xfr] 'okl yuk vkfn dk dUn ;gh fLFkr g A bu fØ;kvk dk fu;=.k fd;k tkrk g A ¼1x4=4 vd½

^^vFkok**

ukMh dkf'kdk dh jpuk dk fp= lfgr le>kb;

ukV & fp= ij 2 vd]

o.ku ij 2 vd

mRrj 14& ikFkfed fpfdRlk& fdlh n?kVuk d le; ;k fdlh 0;fDr d vpkud chekj iM tku ij MkDVj d vku d io tk rkRdkfyd lgk;rk nh tkrh g] ml ikFkfed fpfdRlk dgr g A

ikFkfed fpfdRlk d fl)kr &

¼1½ ifjfLFkfr ij dkc ikuk & ikFkfed fpfdRlk dk lokf/kd fl)kr ifjfLFkfr ij fu;=.k ikuk A

¼2½ ;Fkk lEHko lko/kkuh& ?kk;y dh fLFkfr lEHkkouk] jDrL=ko jkdu dk i;kl djuk A

¼3½ Lo; /k; /kkj.k djuk & ikFkfed fpfdRld dk /k; iod dk; djuk mudk iFke dr0; g A

¼4½ ?kk;y dk rRdky fpfdRlk miyC/k djkuk A

¼5½ ,Ecyl rFkk MkDVj cyokuk A

¼6½ 'okl :duk & jkxh dk Ñf=e 'olu nuk A ¼1$3¾4 vd½

¼7½ fo"kiku & ;fn fdlh 0;fDr u fo"kiku dj fy;k g rk ml oeu djkuk vkfnA

^^vFkok**

ikFkfed fpfdRlk e ifVV;k dk fo'k"k egRo g ifVV;k dhVk.kjfgr LoPN ,o 'or oL= dh gkuh pkfg, A

ifVV;k d idkj& ifVV;k e[; :i l nk idkj dh gkrh g &

¼1½ frdkuh iVVh & dkguh l ydj gFkyh rd d Hkkx dk lgkjk nu d fy, bldk mi;kx fd;k tkrk g A bld rhu idkj g &

¼i½ ijh [kyh iVVh

¼ii½ pkMh iVVh

¼iii½ ldjh iVVh

¼2½ xky ;k yEch iVVh& gFkyh] vxB] ?kVuk] V[kuk flj vkfn e i;kx xdh tkrh g A

iVVh ck/ku d mnn';&

¼1½ ejge iVVh] [kiP;h ,o nok dk iHkkfor vx ij fLFkj j[ku d fy, A

¼2½ ?kk;y vx dk lgkjk nu d fy, A

¼3½ jDr iokg jkdu d fy, A

¼4½ nn ,o dEiu de dju d fy, A

¼5½ ltu de dju d fy, A

¼6½ ?kko dh xUnxh ,o dhVk.k l j{kk d fy, A ½2$2¾4½

¼7½ jkxh dk mBku vkj y tku e lgk;rk nu d fy, A

mRrj 15& **gn; dh jpuk &** ¼fp= e 1 vd] ukekdu ij 2 vd] 2 vd dk;fof/k ij½

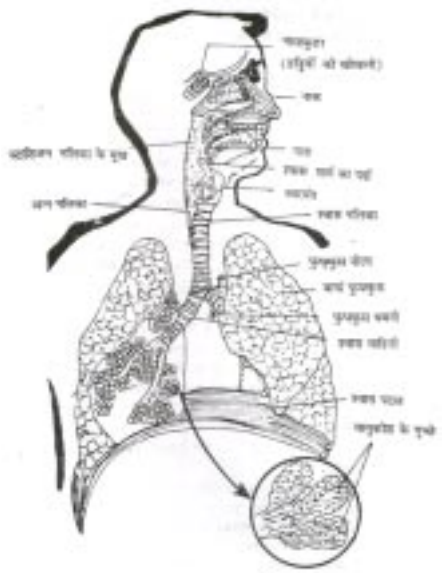
gn; dh dk;fof/k& vufPNd ekl if'k;k l cuk gvk gn; dk ikyk Hkkx lno jDr l Hkjk jgrk g A jDr d gn; e fujurj vku vkj tku d dkj.k mldh ekl if'k;k ,d iEi dh rjg dk; djrh g A nkfgu vkfyUn e vk;k gvk jDr nkfgu fuy; l QQM e tkrk g vkj ogk l ck; vkfyUn e vkdj ck; fuy; e mrjrk g ck; fuy; l egk/keuh e iEi fd;k tkrk g tgk l iEi.k 'kjhj e /keuh] /kefudkvk }kjk lEi.k 'kjhj e igpk;k tkrk g A

^^vFkok**

QQM dh jpuk& ilfy;k rFkk Nkrh dh gMMh vkj jhM d }kjk cu fitM l f?kj gn; d nkuk vkj nk QQM te g, g A QQM Lit d elku fNne; g A bldk jx ?kl j gkrk g A iR;d QQM ij Q¶Ql koj.k ;k iyjk uke nk iYy okyh Fkyh dk vkoj.k jgrk g A

QQM d nk Hkkx g & ¼1½ nk;k] ½2½ ck;k

nkfgu QQM d rhu Hkkx ,o ck; QQM d nk Hkkx gkr g A iR;d Hkkx d cgr l NkV&NkV db Hkkx gkr g A iR;d QQM e ,d ok;okfguh xb g A ;g vud 'kk[kkvk ,o mi'kk[kkvk e foHkkftr gk tkrh g A bu ok;okfguh ij ok;dk"k yx gkr g A



fp=& 1½ vd]
jpuk e 1½ vd
ifØ;k & 2 vd

jDr 'kf)dj.k dh ifØ;k& tc dHkh nk ok; tl CO_2 vkj vkDlhtu ,d nlj d utnhd vk tk; ;k mud chp ,d >huk ink gh jg rk FkkMh gh nj e ok; ,d nlj l fey tk;xh A bl idkj dh feJ.k fØ;k dk 0;frdj.k dgr g A 'k) gok 'okl ekx l QQMk d Hkhrj tc tkrh g rc iR;d ok;dk"k e gok d lkFk vkDlhtu Hkj tkrh g A ;gk ij d'kokfgfu;k dk tky gkrk g A ftle v'k) jDr jgrk g A ok;dk"k vkj d'kokfguh;k d vkoj.k bru iry gkr g fd ok;dk"k dh vkDlhtu vkj d'kokfguh dh CO_2 dk vknku inku gk tkrk g A yky jDr d.k e ghekXykfcu uked inkFk jgrk gA ftle O_2 dk [khpu dh 'kfDr jgrh g A ok;dk"k dh O_2 jDr e fey tkrk g vkj d'kokfguh e mifLFkr CO_2 ok;dk"k l gkrk gvk fuh'okl }kjk 'kjhj l ckgj fudky fn;k tkrk g A

mRrj 16& ifjHkk"kk ij & 1 vd

o.ku ij & 4 vd

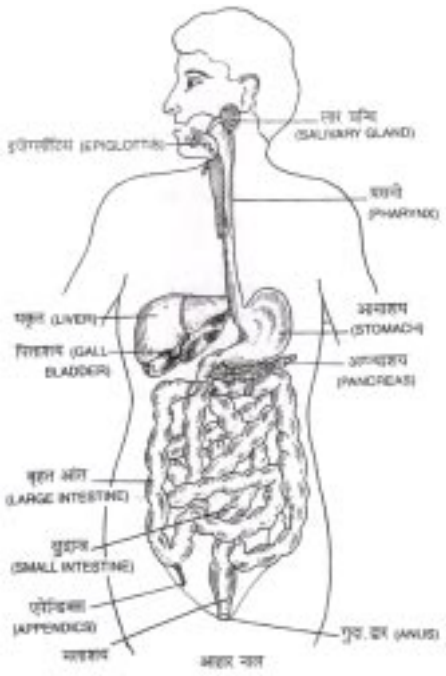
^^vFkok**

Fkk;jkfDlu gkeku dh deh l jkx & 2½ vd

Fkk;jkfDlu gkeku dh vf/kdrk l jkx & 2½ vd

mRrj 17& iR;d ij 5 vd

mRrj 18& vkgkj uky dk ukekfdr fp= & 3 vd] o.ku ij 3& vd



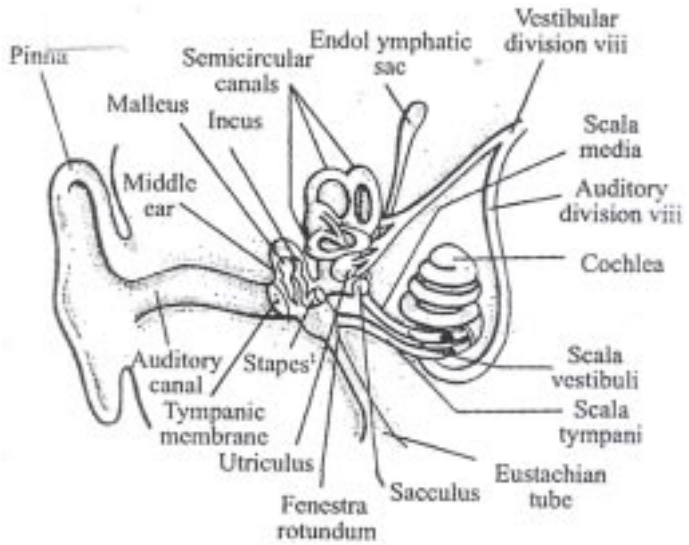
^^vFkok**

,fPNd i'kh & 2 vd

vufPNd i'kh & 2 vd

gn; i'kh & 2 vd

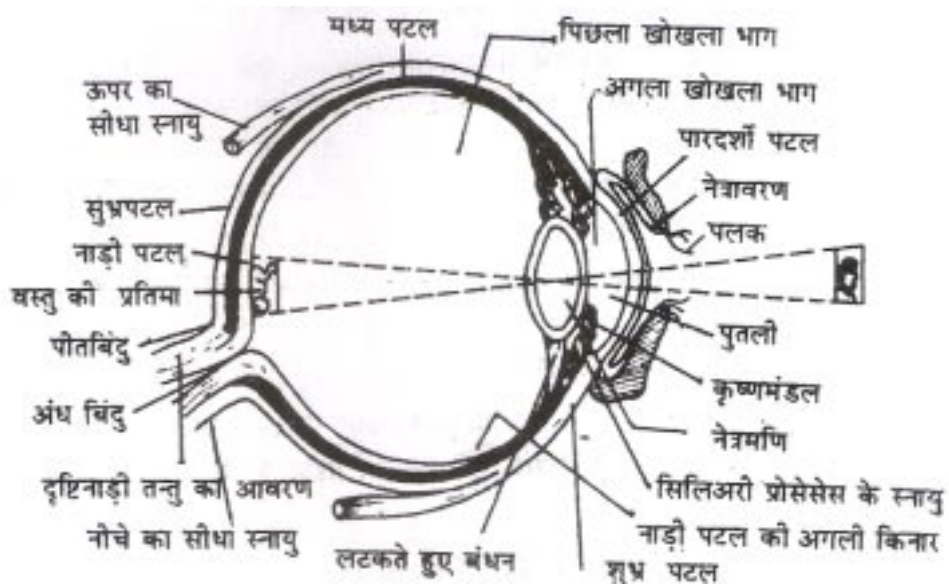
mRrj 19& dku dh jpuk dk fp= ij & 3 vd] o.ku ij & 3 vd



चित्र 15-27. मनुष्य के कर्ण का काट

^^vFkok**

vk[k dk ukekfdr fp= ij & 3 vd] o.ku ij & 3 vd



&&00&&

Set - B

gk;j ld.Mjh Ldy lVhfQdV ijh{kk

Higher Secondary School Certificate Examination

lEiy&i'u i=

SAMPLE PAPER

fo"k; ¼& (Subject) - 'kjhj fØ;k foKku ,o ikFkfed fpfdRlk

le; 3 ?k.Vk (Time- 3 Hrs)

d{kk ¼& (Class) - ckjgoh ¼12oh½ **i.kkd 75 (M.M.)**

(Instruction) & ¼fun'k½

1- lHkh i'u gy djuk vfuok;z g A
Attempt all the Question

2- i'u Øekd 01 e 10 vd fu/kkfjr g A nk dky[k.M g A [k.M ^^v** e 05 cgfodYih; i'u rFkk [k.M ^^c** e 05 fjDr LFkkuk dh ifr vFkok mfpr lc/k tkfM, A iR;d i'u d fy, 1 vd vkcfVr g A
Q. No. 01 Carries 10 Marks. There are two sub-section, Section A is Multiple choice carries 05 marks and section B is fill in the blanks or match the column carries 05 marks.

3- i'u Øekd 02 l i'u Øekd 06 rd vfr y?kmRrjh; i'u g A iR;d i'u ij 02 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 30 'kCn A
Q. No. 02 to 06 are very short answer type question & it carries 02 marks each. Word limit is maximum 30.

4- i'u Øekd 07 l i'u Øekd 10 rd y?kmRrjh; i'u g A iR;d i'u ij 03 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 50 'kCn A
Q. No. 07 to 10 are short answer type question & it carries 03 marks each. Word limit is maximum 50.

5- i'u Øekd 11 l i'u Øekd 14 rd y?kmRrjh; i'u g A iR;d i'u e vkrfjd fodYi g vkj iR;d i'u ij 04 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 75 'kCn A
Q. No. 11 to 14 are short answer type question & it carries 04 marks each. Each question has internal choice. Word limit is maximum 75.

6- i'u Øekd 15 l i'u Øekd 17 rd nh?kmRrjh; i'u g A iR;d i'u e vkrfjd fodYi g vkj iR;d i'u ij 05 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 75 'kCn A

Q. No. 15 to 17 are long answer type question & it carries 05 marks each. Each question has internal choice. Word limit is maximum 75.

7- i'u Øekd 18 l i'u Øekd 19 rd nh?kmRrjh; i'u g A iR;d i'u e vkrfjd fodYi g vkj iR;d i'u ij 06 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 150 'kCn A

Q. No. 18 to 19 are long answer type question & it carries 06 marks each. Each question has internal choice. Word limit is maximum 150.

i'u 1&¼v½ **lgh fodYi pudj fyf[k; &**

Write the correct choice

(i) ekuo 'kjhj e dy ---------- vfLFk;k ik;h tkrh g A

¼v½ 206 ¼c½ 213

¼l½ 443 ¼n½ 312

..... bone are found in human body.

(a) 206 (b) 213

(c) 443 (d) 312

(ii) ,d o;Ld LoLFk 0;fDr d 'kjhj e yxHkx ---------- yhVj jDr jgrk g &

¼v½ 6 yhVj ¼c½ 10 yhVj

¼l½ 16 yhVj ¼n½ 8 yhVj

An adult healthy person has about ..... liter of blood.

(a) 6 liter (b) 10 liter

(c) 16 liter (d) 8 liter

(iii) ---------- dk Jo.kh lUrqyu bfUn; dgr g &

¼v½ ukfldk ¼c½ d.k

¼l½ vk[k ¼n½ dkbZ ugh

Hearing equilibrium organ is called .....

(a) Nose (b) Ear

(c) Eye (d) None of these

(iv) bUlfyu gkeku dk L=ko.k ---------- l gkrk g &

¼v½ vkblyVl vkQ yxj gl ¼c½ Fkk;jkbM

¼l½ i;h"k xfFk ¼n½ dkbZ ugh

Secretion of insulin harmone is due to

(a) Islets of langerhens (b) Thyroid

(c) Pituitary gland (d) None of these

(v) li d dkVu ij fNnk dh njh ---------- gkrh g A

¼v½ **2.5 c.m.** ¼c½ **5.2 c.m.**

¼l½ **6.5 c.m.** ¼n½ bue l dkb ugh

On snake bite the distance of holes in .....

(a) 2.5 c.m. (b) 5.2 c.m.

(c) 6.5 c.m. (d) None of these

¼c½ **fjDr LFkku Hkfj;s &**

Fill in the blank

(i) ---------- VVh gb vfLFk dk xfrghu j[krh g A

..... keep the fractured bone motion less.

(ii) gtk jkx thok.k ---------- }kjk gkrk g A

Disease cholera is caused by ..... bacteria.

(iii) n/k l ngh dk fuek.k ---------- thok.k }kjk gkrk g A

Curd is made from milk by ..... bacteria.

(iv) ilyh dh gMMh VVu ij ---------- fof/k dk mi;kx fd;k tkrk g A

..... method is used on the fracture of ribs.

(v) ---------- fof/k dk i;kx Mc 0;fDr dk Ñf=e 'olu nu e fd;k tkrk gA

To give artificial respiration to a drawned person, ... method is used.

i'u 2& ykj mRiUu dju okyh xfFk;k dgk fLFkr gkrh g \ ykj e ik; tku oky ,Utkbe d uke ,o dk; fyf[k; A

Where the salivary glands are located ? write the name of enzyme found in saliva. Write it function.

i'u 3& ghekXykfcu D;k g \

What is Haemoglobin ?

i'u 4& l"kEerk ukMh dgk fLFkr g \ bld nk dk; fyf[k; A

Where spinal nerve is located ? Write its two function.

i'u 5& Ñf=e 'olu dh e[k l e[k dh fof/k dk l{ki e le>kb; A

Explain in brief mouth to mouth method of artificial respiration.

i'u 6& vfLFk;k d dk; fyf[k, A

Write the function of bone.

i'u 7& ikpu r= l D;k vfHkik; g \ ikpd xfFk;k d uke ,o dk; fyf[k; A

What do you understand by digestive system ? Write the name and function of digestive glands.

i'u 8& if'k;k d ie[k x.k D;k g \

What are the main characteristies of muscles ?

i'u 9& ncko fcUn D;k g \ 'kjhj e ie[k ncko fcUnvk dh fLFkfr crkb; A

What is pressere point ? state the location of main pressure points of the body.

i'u 10& li n'k d dkV 0;fDr d y{k.k ,o mipkj crkb; A

Write the symptoms of snack bite person with treatment.

i'u 11& /keuh rFkk f'kjk e vrj fyf[k; A

Write the differences between artery and vain.

^^vFkok** (OR)

jDr dk; fyf[k; A

Write the function of blood.

i'u 12& e= mRl tu r= dk LoPN ukekfdr fp= cukb; A

Draw a neat labelled diagram of excretory system.

^^vFkok** (OR)

Ropk dk ukekfdr fp= cukdj Ropk d dk; fyf[k; A

Write the function of skin and draw its labelled diagram.

i'u 13& eu"; d efLr"d d fofHkUu Hkkxk d dk; fyf[k; A

Write function of different parts of the human brain.

^^vFkok** (OR)

ukMh dkf'kdk dh jpuk dk fp= lfgr le>kb; A

Explain the structure of neuron with diagram

i'u 14& ikFkfed fpfdRlk D;k g \ bld ie[k fl)krk dk le>kb; A

What is first aid ? explain its main principle.

^^vFkok** (OR)

ikFkfed fpfdRlk e ifVV;k fdru idkj dh gkrh g \ iVVh ck/ku d mnn';k dk fyf[k; A

What are the types of bandage in first aid ? Write the objective of putting bandage.

i'u 15& gn; dh jpuk ,o dk;fof/k dk o.ku dhft , A

Describe the structure and function of heart.

^^vFkok** (OR)

QQMk dh ljpuk dk o.ku djr g, QQMk e jDr 'kf)dj.k dh ifØ;k dk le>kb; A

Describe the structure of lungs along the process of blood purification in the lungs.

i'u 16& ufydk foghu xfFk;k fdl dgr g \ ih;"k xfFk l L=kfor gku oky gkekUl dk o.ku dhft , A

What are duetless glands ? describe about the harmone decreted by pituitary gland.

^^vFkok** (OR)

Fkk;jkfDlu gkeku dh deh ,o vf/kdrk l dku&dku l jkx gk tkr g \ le>kb; A

What diseases are caused by less or more secretion of thyroxine harmone.

i'u 17& i:"k d tuukxk dh foopuk djr g, dk; le>kb; A

Analys about male reproductive organs and explain its functions.

^^vFkok** (OR)

eknk tuukxk d dk; le>kb; A

Explain the function of female reproductive organs.

i'u 18& vkgkj uky dk ukekfdr fp= cukdj vkgkj ufydk e gku okyh ikpu fØ;k dk foLrkj l le>kb; A

Explain the digestive process in alimentry canal with the help of labelled diagram of alimentary canal.

^^vFkok** (OR)

if'k;k fdru idkj dh gkrh g lfp= le>kr g, if'k;k dh dk; fyf[k; A

Explain the function of muscles with diagram and also write about their types.

i'u 19& dku dh jpuk fp= lfgr le>kb; A

Explain the structure of ear with diagram.

^^vFkok** (OR)

vk[k dk ukekfdr fp= cukdj mldh jpuk fyf[k; A

Write the structure of eye with labelled diagram.

&&00&&

^lEiy mRrj**

mRrj 1&¼v½ **oLrfu"V i'u** ¼1x5=5½

(i) & ¼v½ 206

(ii) & ¼v½ 6 yhVj

(iii) & ¼c½ d.k

(iv) & ¼v½ vkblyVl vkQ yxj gl

(v) & ¼v½ 2-5 c.m.

¼c½ fjDr LFkku ¼1x5=5½

(i) [kiPph

(ii) ckbfc;k dkyjh

(iii) yDVkcflyl

(iv) ykckM fof/k

(v) 'kQj fof/k

mRrj 2& ykj mRiUu dju okyh xfFk;k e[kxgk e fLFkr gkrh g A ykj e Vk;fyu uked ,tkbe gkrk g A ;g ,tkbe LVkp dk 'kdjk ¼ekYVkt½ e vi?kfVr dju dk dk; djrk g A ¼1$½$½¾2½

mRrj 3& yky jDr df.kdk e mifLFkr ykg ;kfxd ghekXykfcu g ftld dkj.k jDr dk jx yky fn[kkbZ nrk g A ½2 vd½

mRrj 4& l"kEuk ukMh d'k:d n.M dh rf=dk uky e fLFkr gkrh g] ;g iFke d'k:d l ikjHk gkdj dfV in'k rd Qyh jgrh g A

dk;& ¼1½ ;g ifrorh fØ;kvk dk e[; dUn g A

½2½ ;g l"kEuk rf=dkvk ,o efLr"d d chp fyd cukrk g A ¼1$½$½¾2½

mRrj 5& **Ñf=e 'olu dh e[k l e[k dh fof/k &** bl fof/k e ihfMr 0;fDr dk ihB d cy fyVkdj mld ukl k fNnk dk nckdj mld eg e viuk e[k j[kdj bl idkj Qdr g fd 1 yhVj ok; QQMk e igp vc eg gVkdj viu vkil lhu dk nckdj QQM l ok; ckgj fudkyr g A bl fØ;k dk 10&15 ckj ifr feuV d fglkc l nkgjk;k tkrk g A ½2 vd½

mRrj 6& **vfLFk;k d dk; &**

¼1½ dkey vxk dh j{kk djrh g] tl& gn;] QQM] efLr"d vkfn A

¼2½ vfLFk;k 'kjhj dk fuf'pr vkdkj inku djrh g A

¼3½ 'kjhj dk fLFkjrk o ln<rk inku djrh g A ¼½x4¾2 vd½

¼4½ [kk[kyh vfLFk;k e fLFkr vfLFk eTtk e yky jDr df.kdk, mRiUu gkrh gA

mRrj 7& **ikpu r= &** gekj 'kjhj e tk vx Hkktu dk ipku] ik"kd rRok dk jDr e feyku vkj iR;d dkf'kdk rd igpku e lgk;d gkr g] o lHkh vx feydj ,d Lor= r= cukr g] tk ikpu r= dgykrk g A

ikpd xfUFk;k&

(A) ykj xfFk;k & ¼1½ ijkfVM] ¼2½ v/kkft0gk] ¼3½ v/kkeDlhyjh

(B) ;Ñr] (C) vXuk'k;] (D) fiÙkk'k;] (E) lyhgk

dk;&

¼1½ ykj xfFk l L=for ,tkbe Vk;fyu LVkp dk 'kdjk e ifjofrr djrk gA

¼2½ ;Ñr fiÙkjl cukrk g tk fLuX/k inkFkk dk ipku e lgk;d gkr g A

¼3½ vXuk'k;h jl] dkckt] ikVhu o olk rhuk d ikpu e lgk;rk djr g A

¼1$1$1¾3 vd½ ¼dkb Hkh 1 fcUn ij 1 vd n A½

mRrj 8& **if'k;k d e[; x.k&**

¼1½ if'k;k e ldpu vkj ilj.k dk fo'k"k x.k gkrk g A

¼2½ if'k;k lfU/k dk vkPNkfnr djrh g A

¼3½ if'k;k e jDr jgrk g] blfy, budk jx yky gkrk g A

¼4½ if'k;k Li'k dju ij dkey irhr gkrh g A (1x3=3 vd)

mRrj 9& **ncko fcUn &** ncko fcUn 'kjhj d fofHkUu Hkkxk e /keuh d LFkku ij fLFkr gkr g A /keuh l jDr L=ko gku ij bu ncko fcUn dk ncku ij /keuh d nc tku l jDr L=ko cn gk tkrk g A 'kjhj e e[; ncko fcUn fuEu LFkkuk ij fLFkr gkr g &

¼1½ iFke ncko fcUn xhok {k= e 'okl ufydk d ik'o Hkkx e gkrk g A

¼2½ nljk ncko fcUn dku d Bhd lkeu dh vkj A

¼3½ rhljk ncko fcUn nkuk tcMk d dk.kh; Hkkx l 2·5c.m. dh njh ij A

¼4½ pkFkk ncko fcUn glyh dh vfLFk d vkrfjd Hkkx d ihN dh vkj A

¼5½ ikpok ncko fcUn Hktkvk d vkrfjd Hkkx dh vkj fLFkr gkrk g A

¼6½ NVok ncko fcUn e=k'k; d ikl fLFkr gkrk g A ¼1$2¾3 vd½

mRrj 10& **li n'k l ihfMr 0;fDr d y{k.k &**

¼1½ fo"k nr d fNnk dh fLFkfr 2.5 c.m. gkrh g A

¼2½ dkV g, LFkku ij nn] l tu vkj ?kko d LFkku ij uhyk iM tkrk g A

¼3½ dkV g, LFkku l jDr L=ko fujrj gkrk jgrk g A

¼4½ 'kjhj f'kfFky gku yxrk g A

mipkj &

¼1½ dkV g, LFkku d Åij dh vkj Vuhdv] :eky] jLlh vkfn l dldj ck/kuk pkfg,] ft ld dkj.k jDr iokg e :dkoV vk tk; A

¼2½ jkxh dk vkjke l fyVkdj flj Åij dh vkj j[kuk ft ll dh jDr yxkrkj cgrk jg A

¼3½ pkd l ?kko dk yxHkx 1** xgjk cukuk pkfg, A

¼4½ ?kko dk dkckfyd vEy ;k $KMnO_4$ }kjk /kkdj tyk nuk pkfg, A

¼y{k.k & 1½ vd $ mipkj 1½ vd ¾ 3 vd½

mRrj 11& /keuh rFkk f'kjk e vUrj fuEukulkj g &

/keuh	f'kjk
1- /keuh dk jx yky xykch gkrk g A	1- budk jx uhyk gkrk g A
2- ; 'kjhj ij xgjkb ij fLFkr gkrh g A	2- ; 'kjhj d ckgjh vkj ik;h tkrh g A
3- ; jDr vHkko e fipdrh ugh g A	3- jDr fudyu d ckn fipd tkrh g A
4- budh nhokj ekVh ,o yphyh gkrh gA	4- budh nhokj iryh ,o de yphyh gkrh g A
5- bue jDr >Vd lkFk cgrk g A	5- /kheh xfr l cgrk g A
6- Q¶Ql /keuh d vfrfjDr lc e 'k) jDr gkrk g A	6- Q¶Ql f'kjk dk NkM dj lHkh e v'k) jDr jgrk gA
7- /kefu;k e dikV dk vHkko gkrk g A	7- f'kjkvk e dikV gkr g A

8- /kefu;k dk 0;kl de gkrk g A 8- f'kjkvk dk 0;kl vf/kd gkrk g A ¼½x8=4½

^^vFkok**

jDr d dk;k dk o.ku dhft ; &

¼1½ 'olu d fy, vko';d xlk dk ifjogu & jDr 'kjhj d iR;d Hkkx dh dkf'kdkvk e vkDlhtu igpkuk vkj ogk l dkcu Mkb vkDlkbM okil ykdj QQMk rd igpku dk dk; djrk g A

¼2½ HkkT; inkFkk dk ifjogu& jDr Hkktu l vo'kkf"kr fd; x; ikf"Vd rRok dk 'kjhj d iR;d vx rd igpku dk dk; djrk g A

¼3½ vif'k"V inkFkk dk fu"dklu & jDr p;kip; dh fØ;kvk e cuu okyh vof'k"V inkFkk dk mRltd vxk rd igpku dk dk; djrk g A tl& oDd] QQM] vkr vkfn rd A

¼4½ 'kkjhfjd rki dk fu;eu& dkf'kdkvk e vkDlhtu igpk dj tk vkDlhd.k dh fØ;k gkrh g A mll 'kjhj e xeh mRiUu gkrh g A jDr 'kjhj d vkUrfjd Hkkxk l xeh ydj ckgjh Hkkxk rd igpkrk g vkj lEi.k 'kjhj dk rkieku leku cuk; j[krk g A

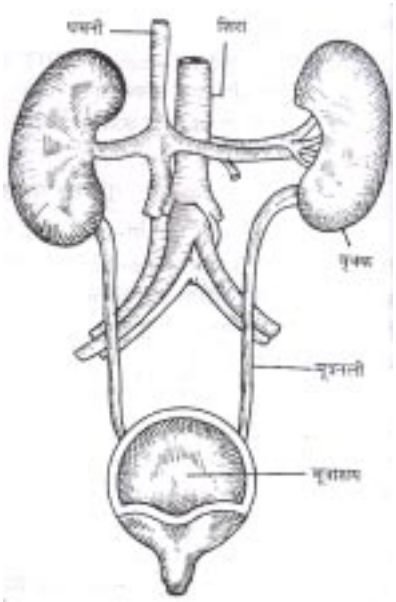
¼5½ 'kjhj d fofHkUu xfFk;k l tk L=ko mRiUu gkr g jDr mudk fufer dju d fy, mi;Dr inkFk igpkrk g A

¼6½ jDr gkekUl] foVkfeUl ,o vU; vko';d jlk;uk dk mud fØ;k dju oky LFkku ij igpkdj okgu dk dk; djrk g A

¼7½ 'kjhj e db j{kkRed dk; djr g tl 'or jDr df.kdk jkxk.kvk dk Hk{k.k dj 'kjhj dk jkxk l cpk; j[krk g A

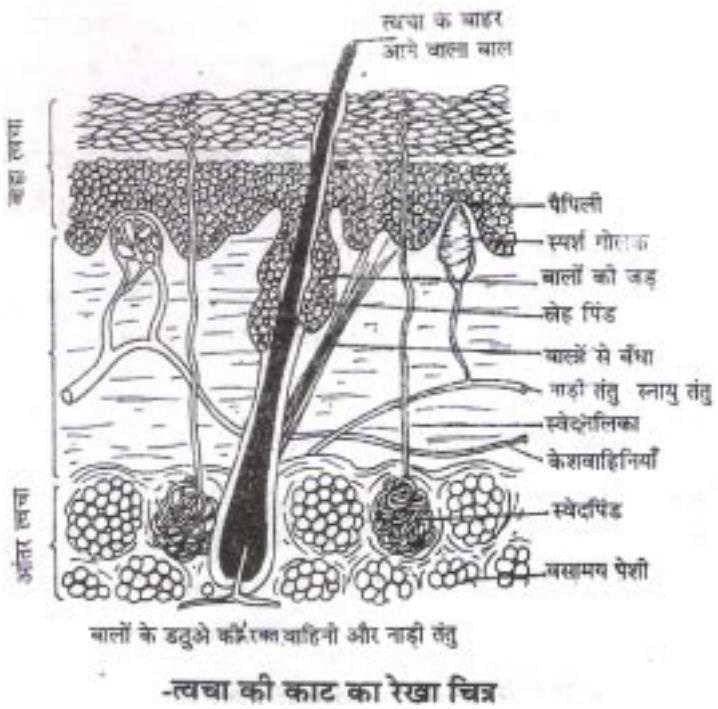
mRrj 12& e= mRltu r= dk LoPN ukekfdr fp=&

¼fp= ij 3 vd] ukekdu ij 1 vd½



^^vFkok

Ropk dk ukekfdr fp=&



-त्वचा की काट का रेखा चित्र

¼1 vd fp= ij] 1 vd ukekdu ij½

Ropk d dk; & ¼dkb Hkh 2 fcn ij 2 vd½

¼1½ Li'k Kku& Ropk Li'kfUn; g bll fofHkUu lonukvk dk Kku gkrk g A

¼2½ vfHk'kk"k.k& Åijh Ropk ij nokb ;k ry bR;kfn yxk;k tk; rk bl Ropk vfHk'kkf"kr dj yrh g A

¼3½ ilhu dk mRltu& ilhu d :i e fo"ky o 0;Fk inkFk dk Ropk mRlftr dj nrh g A

¼4½ 'kjhj dk rkiØe lkekU; cuk; j[kuk A

¼5½ lj{k.k& 'kjhj Hkhrjh ukt d vxk dk lj{k.k inku djrh g A

¼6½ foVkfeu Mh r;kj djuk & l; idk'k dh lgk;rk l Ropk foVkfeu Mh dk fuek.k djrh g A tk gfMM;k o nkrk dh etcrh d fy, vko';d g A

mRrj 13& ukMh lLFkku dk lcl cMk Hkkx g tk [kkiMh d vUnj fLFkr gkrk g A efLr"d d pkj Hkkx gkr g efLr"d d Hkkxk d uke ,o mud dk; fuEukulkj g&

¼1½ **lfjce&** ;g efLr"d dk lcl cMk Hkkx g ;g nk xkyk)k e cVk gkrk g&

dk;& ¼1½ ijd dUn& ; i'kh; lLFkku dh lHkh ,fPNd if'k;k ij vf/kdkj j[kr g A

¼2½ lonuk dUn& ble Ropk ,o if'k;k] vfLFk rFkk tkMk dk lonuk ikIr gkrh g A

¼3½ fof'k"V lonuk dUn& n[ku] luu] l?ku] Lokn rFkk Li'k dk dUn g A

¼4½ mPp ekufld {kerkvk d dUn& pruk] Lej.k 'kfDr cf)erk] foopu 'kfDr vkfn dk dUn A

¼2½ **ljhcye&** ;g ljhce l NkVk rFkk mld uhp fLFkr gkrk g A

dk;& ¼1½ 'kjhj dk lryu cuk; j[kuk A

¼2½ if'k;k d dk; e leUo; A

¼3½ i'kh; xfr dk fu;f=r djuk A

¼3½ **ikUl cjkykb&** bud dk; fuEu g &

¼1½ fHkUu fHkUu Hkkxk l l"kEuk l gkdj tku okyh lonuk; ;gh l gkdj eflr"d dh vkj tkrh g A

¼4½ **eM;yk vkCykxVk&** efLr"d d lcl uhp dk Hkkx g A ;g 'kjhj dk egRoi.k vx g A

dk;& ¼1½ jDr ifjlpj.k] fuxyu dh fØ;k] gn; xfr] 'okl yuk vkfn dk dUn ;gh fLFkr g A bu fØ;kvk dk fu;=.k fd;k tkrk g A ¼1x4=4 vd½

^^vFkok**

ukMh dkf'kdk dh jpuk dk fp= lfgr le>kb;

ukV & fp= ij 2 vd]

o.ku ij 2 vd

mRrj 14& ikFkfed fpfdRlk& fdlh n?kVuk d le; ;k fdlh 0;fDr d vpkud chekj iM tku ij MkDVj d vku d io tk rkRdkfyd lgk;rk nh tkrh g] ml ikFkfed fpfdRlk dgr g A

ikFkfed fpfdRlk d fl)kr &

¼1½ ifjfLFkfr ij dkc ikuk & ikFkfed fpfdRlk dk lokf/kd fl)kr ifjfLFkfr ij fu;=.k ikuk A

¼2½ ;FkkEHko lko/kkuh& ?kk;y dh fLFkfr lEHkkouk] jDrL=ko jkdu dk i;kl djuk A

¼3½ Lo; /k; /kkj.k djuk & ikFkfed fpfdRld dk /k; iod dk; djuk mudk iFke dr0; g A

¼4½ ?kk;y dk rRdky fpfdRlk miyC/k djkuk A

¼5½ ,Ecyl rFkk MkDVj cyokuk A

¼6½ 'okl :duk & jkxh dk Ñf=e 'olu nuk A ¼1$3¾4 vd½

¼7½ fo"kiku & ;fn fdlh 0;fDr u fo"kiku dj fy;k g rk ml oeu djkuk vkfnA

^^vFkok**

ikFkfed fpfdRlk e ifVV;k dk fo'k"k egRo g ifVV;k dhVk.kjfgr LoPN ,o 'or oL= dh gkuh pkfg, A

ifVV;k d idkj& ifVV;k e[; :i l nk idkj dh gkrh g &

¼1½ frdkuh iVVh & dkguh l ydj gFkyh rd d Hkkx dk lgkjk nu d fy, bldk mi;kx fd;k tkrk g A bld rhu idkj g &

¼i½ ijh [kyh iVVh

¼ii½ pkMh iVVh

¼iii½ ldjh iVVh

¼2½ xky ;k yEch iVVh& gFkyh] vxB] ?kVuk] V[kuk flj vkfn e i;kx xdh tkrh g A

iVVh ck/ku d mnn';&

¼1½ ejge iVVh] [kiP;h ,o nok dk iHkkfor vx ij fLFkj j[ku d fy, A

¼2½ ?kk;y vx dk lgkjk nu d fy, A

¼3½ jDr iokg jkdu d fy, A

¼4½ nn ,o dEiu de dju d fy, A

¼5½ l tu de dju d fy, A

¼6½ ?kko dh xUnxh ,o dhVk.k l j{kk d fy, A ½2$2¾4½

¼7½ jkxh dk mBku vkj y tku e lgk;rk nu d fy, A

mRrj 15& **gn; dh jpuk &** ¼fp= e 1 vd] ukekdu ij 2 vd] 2 vd dk;fof/k ij½

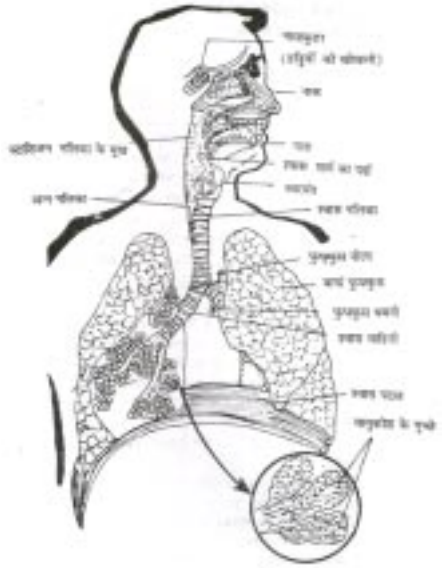
gn; dh dk;fof/k& vufPNd ekl if'k;k l cuk gvk gn; dk ikyk Hkkx lno jDr l Hkjk jgrk g A jDr d gn; e fujurj vku vkj tku d dkj.k mldh ekl if'k;k ,d iEi dh rjg dk; djrh g A nkfgu vkfyUn e vk;k gvk jDr nkfgu fuy; l QQM e tkrk g vkj ogk l ck; vkfyUn e vkdj ck; fuy; e mrjrk g ck; fuy; l egk/keuh e iEi fd;k tkrk g tgk l iEi.k 'kjhj e /keuh] /kefudkvk }kjk lEi.k 'kjhj e igpk;k tkrk g A

^^vFkok**

QQM dh jpuk& ilfy;k rFkk Nkrh dh gMMh vkj jhM d }kjk cu fitM l f?kj gn; d nkuk vkj nk QQM te g, g A QQM Lit d elku fNne; g A bldk jx ?kl j gkrk g A iR;d QQM ij Q¶Q lkoj.k ;k iyjk uke nk iYy okyh Fkyh dk vkoj.k jgrk g A

QQM d nk Hkkx g & ¼1½ nk;k] ½2½ ck;k

nkfgu QQM d rhu Hkkx ,o ck; QQM d nk Hkkx gkr g A iR;d Hkkx d cgr l NkV&NkV db Hkkx gkr g A iR;d QQM e ,d ok;okfguh xb g A ;g vud 'kk[kkvk ,o mi'kk[kkvk e foHkkftr gk tkrh g A bu ok;okfguh ij ok;dk"k yx gkr g A



fp=& 1½ vd]
jpuk e 1½ vd
ifØ;k & 2 vd

jDr 'kf)dj.k dh ifØ;k& tc dHkh nk ok; tl CO_2 vkj vkDlhtu ,d nlj d utnhd vk tk; ;k mud chp ,d >huk ink gh jg rk FkkMh gh nj e ok; ,d nlj l fey tk;xh A bl idkj dh feJ.k fØ;k dk 0;frdj.k dgr g A 'k) gok 'okl ekx l QQMk d Hkhrj tc tkrh g rc iR;d ok;dk"k e gok d lkFk vkDlhtu Hkj tkrh g A ;gk ij d'kokfgfu;k dk tky gkrk g A ftle v'k) jDr jgrk g A ok;dk"k vkj d'kokfguh;k d vkoj.k bru iry gkr g fd ok;dk"k dh vkDlhtu vkj d'kokfguh dh CO_2 dk vknku inku gk tkrk g A yky jDr d.k e ghekXykfcu uked inkFk jgrk gA ftle O_2 dk [khpu dh 'kfDr jgrh g A ok;dk"k dh O_2 jDr e fey tkrk g vkj d'kokfguh e mifLFkr CO_2 ok;dk"k l gkrk gvk fuh'okl }kjk 'kjhj l ckgj fudky fn;k tkrk g A

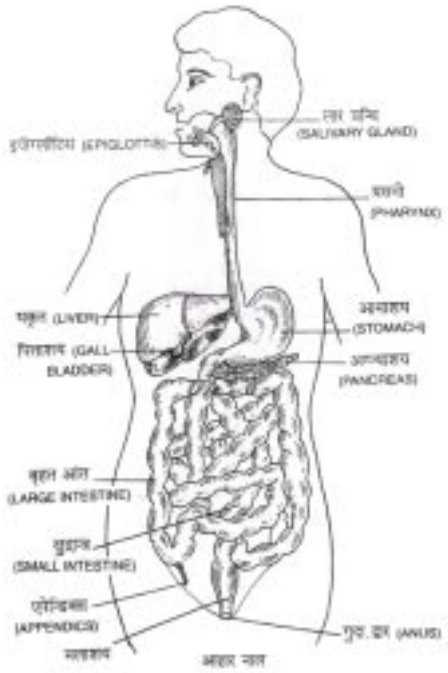
mRrj 16& ifjHkk"kk ij & 1 vd
o.ku ij & 4 vd

^^vFkok**

Fkk;jkfDlu gkeku dh deh l jkx & 2½ vd
Fkk;jkfDlu gkeku dh vf/kdrk l jkx & 2½ vd

mRrj 17& iR;d ij 5 vd

mRrj 18& vkgkj uky dk ukekfdr fp= & 3 vd] o.ku ij 3& vd



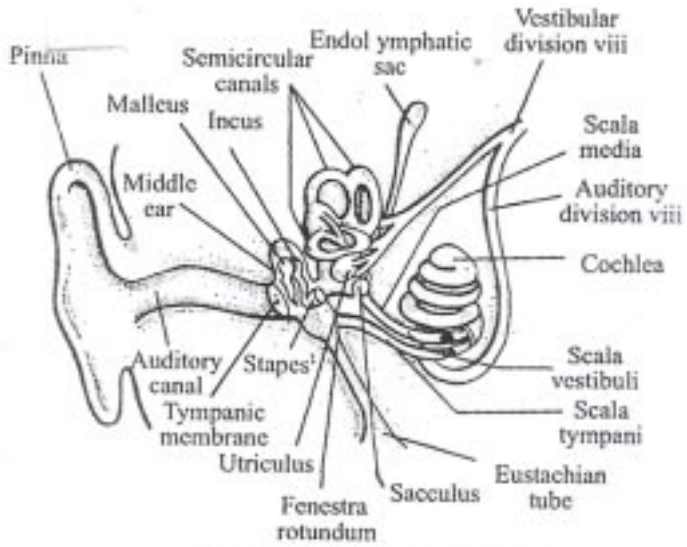
^^vFkok**

,fPNd i'kh & 2 vd

vufPNd i'kh & 2 vd

gn; i'kh & 2 vd

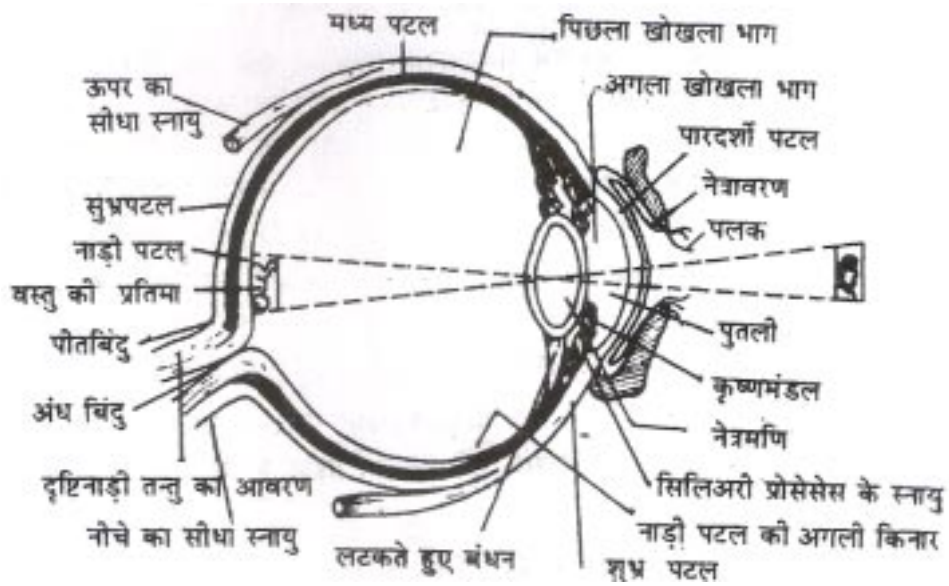
mRrj 19& dku dh jpuk dk fp= ij & 3 vd] o.ku ij & 3 vd



चित्र 15-27. मनुष्य के कर्ण का काट

^^vFkok**

vk[k dk ukekfdr fp= ij & 3 vd] o.ku ij & 3 vd



&&00&&

Set - C

gk;j ld.Mjh Ldy lVhfQdV ijh{kk

Higher Secondary School Certificate Examination

lEiy&i'u i=

SAMPLE PAPER

fo"k; ¼& (Subject) - 'kjhj fØ;k foKku ,o ikFkfed fpfdRlk

le; 3 ?k.Vk (Time- 3 Hrs)

d{kk ¼& (Class) - ckjgoh ¼12oh½ **i.kkd 75 (M.M.)**

(Instruction) & ¼fun'k½

1- lHkh i'u gy djuk vfuok;g A
Attempt all the Question

2- i'u Øekd 01 e 10 vd fu/kkfjr g A nk dky[k.M g A [k.M ^^v** e 05 cgfodYih; i'u rFkk [k.M ^^c** e 05 fjDr LFkkuk dh ifr vFkok mfpr lc/k tkfM, A iR;d i'u d fy, 1 vd vkcfVr g A
Q. No. 01 Carries 10 Marks. There are two sub-section, Section A is Multiple choice carries 05 marks and section B is fill in the blanks or match the column carries 05 marks.

3- i'u Øekd 02 l i'u Øekd 06 rd vfr y?kmRrjh; i'u g A iR;d i'u ij 02 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 30 'kCn A
Q. No. 02 to 06 are very short answer type question & it carries 02 marks each. Word limit is maximum 30.

4- i'u Øekd 07 l i'u Øekd 10 rd y?kmRrjh; i'u g A iR;d i'u ij 03 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 50 'kCn A
Q. No. 07 to 10 are short answer type question & it carries 03 marks each. Word limit is maximum 50.

5- i'u Øekd 11 l i'u Øekd 14 rd y?kmRrjh; i'u g A iR;d i'u e vkrfjd fodYi g vkj iR;d i'u ij 04 vd vkcfVr g A mRrj dh vf/kdre 'kCn lhek 75 'kCn A
Q. No. 11 to 14 are short answer type question & it carries 04 marks each. Each question has internal choice. Word limit is maximum 75.

6- i'u Øekd 15 l i'u Øekd 17 rd nh?kmRrjh; i'u gA iR;d i'u e vkrfjd fodYi g vkj iR;d i'u ij 05 vd vkcfVr gA mRrj dh vf/kdre 'kCn lhek 75 'kCn A

Q. No. 15 to 17 are long answer type question & it carries 05 marks each. Each question has internal choice. Word limit is maximum 75.

7- i'u Øekd 18 l i'u Øekd 19 rd nh?kmRrjh; i'u gA iR;d i'u e vkrfjd fodYi g vkj iR;d i'u ij 06 vd vkcfVr gA mRrj dh vf/kdre 'kCn lhek 150 'kCn A

Q. No. 18 to 19 are long answer type question & it carries 06 marks each. Each question has internal choice. Word limit is maximum 150.

i'u 1&¼v½ **lgh fodYi pudj fyf[k; &** (1x5=5)

Write the correct chice-

(i) vek'k; e ---------- L=kfor gkrk g &

¼v½ tBj jl ¼c½ vk= jl

¼l½ vXuk'kl jl ¼n½ fiRr jl

..... guier is secreted in the stomach

(a) Gastri (b) Intestine

(c) Pancreatic (d) bile

(ii) 'olu fØ;k e xlk dk vknku&inku ie[k :i l ---------- e gkrk g A

¼v½ QQM ¼c½ gn;

¼l½ ukfldk ¼n½ dkb ugh A

Gaseous exchange mainly take place in the ..... during respiration process.

(a) Lungs (b) Heart

(c) Nose (d) None of these

(iii) ih;"k xfFk l ---------- gkeku L=kfor gkrk g &

¼v½ lkeVkVkfQd ¼c½ Fkk;jkfDlu

¼l½ ikyfDVu ¼n½ dkb ugh

..... Harmone is secreted by pituitory gland

(a) Somatotropic (b) Thyroxine

(c) Prolactine (d) None of these

(iv) Lokn Kku dk ie[k dUn ---------- g &

¼v½ ft0gk ¼c½ e[kxgk

¼l½ NkVh vkr ¼n½ nkr

The main centre of tast perception is.....

(a) Tongue (b) Buccal cavity

(c) Small intestine (d) Tooth

(v) rtkc l 'kjhj ty tku ij ---------- l /kk yuk pkfg, A

¼v½ fLiV ¼c½ vekfu;k

¼l½ xeikuh ¼n½ fMVky

On burning with acid, body mast be washed with .....

(a) Sperit (b) Ammonia

(c) Hot water (d) Dettol

¼c½ **fjDr LFkku Hkfj;&** ¼1x5=5)

Fill in the blank

(i) ifYVl dk i;kx ---------- vku ij fd;k tkrk g A

Pultis is used at .....

(ii) LVIVkekbflu ,d ---------- g A

Streptromycin is a ..... .

(iii) ---------- jkx tkuojk e gkrk g A

Disease ..... happens in cattle.

(iv) 'olu fØ;k eUn gku ij ---------- 'olu fn;k tkrk g A

On slow down of respiration, ... respiration in given.

(v) thok.k ,d ---------- g A

Bacteria is a ..... .

i'u 2& mikfLFk fdl dgr g \

What is cartelage ?

i'u 3& fir jl D;k g \

What is bile guice ?

i'u 4& ry xfFk;k dgk ik;h tkrh g \

Where oil glands are found ?

i'u 5& gn; dk ifEix LV'ku dgk x;k g \ D;k \

Heart is said to be "pumping station." Why ?

i'u 6& thok.kvk l pkj ykHk fyf[k; A

Write four advantage of Bacteria.

i'u 7& lf/k fdl dgr g \ lf/k;k dh mi;kfxrk fyf[k; A

What is called joint ? Write the importance of joints.

i'u 8& ;Ñr d dk; fyf[k; A

Write the function of liver

i'u 9& ifYVl D;k g \ bld idkj ,o mi;kx le>kb; A

What is Poultice ? Explain the type and uses.

i'u 10& xy e dkb oLr vVd tku ij D;k mipkj djx \

What treatment will be given on linger of any object in the throat ?

i'u 11& /keuh rFkk f'kjk e vrj fyf[k; A

Write the differences between artary and vain.

^^vFkok** (OR)

jDr dk; fyf[k; A

Write the function of blood.

i'u 12& e= mRltu r= dk LoPN ukekfdr fp= cukb; A

Draw a neat labelled diagram of excretory system.

^^vFkok** (OR)

Ropk dk ukekfdr fp= cukdj Ropk d dk; fyf[k; A

Write the function of skin and draw its labelled diagram.

i'u 13& eu"; d efLr"d d fofHkUu Hkkxk d dk; fyf[k; A

Write function of different parts of the human brain.

^^vFkok** (OR)

ukMh dkf'kdk dh jpuk dk fp= lfgr le>kb; A

Explain the structure of neuron with diagram

i'u 14& ikFkfed fpfdRlk D;k g \ bld ie[k fl)krk dk le>kb; A

What is first aid ? explain its main principales.

^^vFkok** (OR)

ikFkfed fpfdRlk e ifVV;k fdru idkj dh gkrh g \ iVVh ck/ku d mnn';k dk fyf[k; A

What are the types of bandage in first aid ? Write the objective of putting bandage.

i'u 15& gn; dh jpuk ,o dk;fof/k dk o.ku dhft, A

Describe the structure and function of heart.

^^vFkok** (OR)

QQMk dh ljpuk dk o.ku djr g, QQMk e jDr 'kf)dj.k dh ifØ;k dk le>kb; A

Describe the structure of lungs along the process of blood purification in the lungs.

i'u 16& ufydk foghu xfFk;k fdl dgr g \ ih;"k xfFk l L=kfor gku oky gkekUl dk o.ku dhft, A

What are duetless glands ? describe about the harmone decreted by pitutiary gland.

^^vFkok** (OR)

Fkk;jkfDlu gkeku dh deh ,o vf/kdrk l dku&dku l jkx gk tkr g \ le>kb; A

What diseases are caused by less or more secretion of thyroxine harmone.

i'u 17& i:"k d tuukxk dh foopuk djr g, dk; le>kb; A

Analys about male reproductive organs and explain its functions.

^^vFkok** (OR)

eknk tuukxk d dk; le>kb; A

Explain the function of female reproductive organs.

i'u 18& vkgkj uky dk ukekfdr fp= cukdj vkgkj ufydk e gku okyh ikpu fØ;k dk foLrkj l le>kb; A

Explain the digestive process in alimentry canal with the help of labelled diagram of alimentary canal.

^^vFkok** (OR)

if'k;k fdru idkj dh gkrh g lfp= le>kr g, if'k;k dh dk; fyf[k; A

Explain the function of muscles with diagram and also write about their types.

i'u 19& dku dh jpuk fp= lfgr le>kb; A

Explain the structure of ear with diagram.

^^vFkok** (OR)

vk[k dk ukekfdr fp= cukdj mldh jpuk fyf[k; A

Write the structure of eye with labelled diagram.

&&00&&

^^lEiy mRrj**

mRrj 1&¼v½ **oLrfu"V i'u** ¼1x5=5½

(i) & ¼v½ tBj jl

(ii) & ¼v½ QQM

(iii) & ¼v½ lkeVkVkfQd

(iv) & ¼v½ ft0gk

(v) & ¼c½ vekfu;k

¼c½ fjDr LFkku ¼1x5=5½

(i) ekp vku ij @ ?kko idu ij

(ii) ifr tfod

(iii) ,UFkDl

(iv) Ñf=e 'olu

(v) l{e tho

mRrj 2& **mikfLFk&** dkUMhu uked inkFk l fufer yphyh ljpuk dk mikfLFk dgr g tk vfLFk l de dBkj o etcr gkrh g A mnkgj.k & ckg; d.k e A ½2½

mRrj 3& **fiÙk jl&** ;g ,d {kkjh;] gj&ihy jx dk dMok inkFk g A tk ;Ñr e curk g o fiÙk ufydk }kjk iDok'k; e igpk;k tkrk g] fiÙk jl Hkk tu e mifLFkr olk dk olh; vEy o fXyljky e fo?kfVr djrk g A ½2½

mRrj 4& **ry xfFk;k&** ; vR;r l{e vr% Ropk e d'kk dh tMk e jgrh g] bue l ,d ry tl k fLuX/k L=ko fudyrk g tk d'kk d ekx l Ropk ij Qydj Ropk dk dkey ,o pednkj cukrk g A ½2½

mRrj 5& lEi.k 'kjhj e jDr dk ifjlpj.k gn; d gh ek/;e l gkrk g A gn; d iEi dju d dkj.k gh v'k) jDr 'k) gku d fy, QQMk rd tkrk g ,o QQMk l vk;k 'k) jDr lEi.k 'kjhj dk lpkfjr dj fn;k tkrk g A ;fn gn; iEi dju dk dke u dj rk ; ifjlpj.k dh lkjh fØ;k gh :d tk;xh A vr% gn; dk ifEix LV'ku dgr g A ½2½

mRrj 6& **thok.kvk l ykHk &**

¼1½ M;jh m|kx e & dN thok.k n/k l 'kdjk dk ipkdj yfDVd vEy mRiUu djr g] tll n/k dk ikVhu te tkrk g A bll eD[ku] iuhj] ngh cuk; tkr g A

¼2½ tV m|kx

¼3½ pk; o rEckd 0;olk; e A

¼4½ ifr tfod vk"k/kh fuek.k e A ¼1½x4=2½

mRrj 7& **lf/k &** ekuo 'kjhj e ftl LFkku ij nk ;k nk l vf/kd vfLFk;k ;k mikfLFk;k feyrh g] ml lf/k dgr g A

mi;kfxrk & lf/k;k }kjk gekjk 'kjhj xfr'khy gkrk g vkj fofHkUu fØ;k, ljyrk l lEiUu gk tkrh g A ¼1½x1½=3½

mRrj 8& **;Ñr d dk;&**

¼1½ R.B.C. dk fuek.k djuk A

¼2½ fiÙk jl dk fuek.k A

¼3½ gkfudkjd thok.kvk dk uk'k djuk A

¼4½ vfrfjDr Xydkt dk Xyk;dktu d :i e lxg djuk A

¼5½ ikVhu l ;fj;k rFkk ;fjd vEy dk iFkd djuk A

¼6½ Qkbfcuktu dk fuek.k djuk A ¼1½x6=3½

mRrj 9& **ifYVl&** ;g xe ld dju dh fof/k g A bl fofHkUu inkFkk l r;kj dj rjr mi;kx e ykr g A

ifYVl d idkj &

¼1½ jkVh dh ifYVl A

¼2½ jkb dh ifYVl A

¼3½ Hkl h dh ifYVl A

¼4½ l;kt dh ifYVl A

¼5½ vyl h dh ifYVl A

mi;kx &

¼1½ ekp vku ij ld dju l nn nj gkrk g A

¼2½ ?kko ¼QkMk&QUl h½ idku gr A

mRrj 10& **xy e dkb oLr vVd tku ij fuEu mipkj djuk pkfg, &**

¼1½ cPp d eg e mxyh Mkydj oLr dk ckgj fudkyuk pkfg, A

¼2½ cPp dk >dkdj e[k dk uhp j[kr g; xnu ij gYdk vk?kkr nu l vVdh gb oLr ckgj fudy tkrh g A

¼3½ ;fn dkb udhyh oLr vnj ugh xb g rk cPp dh nkuk Vkx idM dj flj d cy mYVk yVdk nuk pkfg, vkj ihB ij Fkifd;k nuh pkfg, A ,lk dju l oLr ckgj fudy tk;xh A

¼4½ udhyh oLr] fpduh oLr vVdu ij jkxh dk dyk] gyok f[kykuk pkfg, ft ldh lgk;rk l vVdh gb oLr vkgkj uky d 'k"k uhp Hkkx e tkdj ey d lkFk ckgj vk tk;xh A

¼5½ ;fn vVdh gb oLr u fudy rk fpfdRld d ikl y tk; A ¼1x3=3½

mRrj 11& /keuh rFkk f'kjk e vUrj fuEukulkj g &

/keuh	f'kjk
1- /keuh dk jx yky xykch gkrk g A	1- budk jx uhyk gkrk g A
2- ; 'kjhj ij xgjkb ij fLFkr gkrh g A	2- ; 'kjhj d ckgjh vkj ik;h tkrh g A
3- ; jDr vHkko e fipdrh ugh g A	3- jDr fudyu d ckn fipd tkrh g A
4- budh nhokj ekVh ,o yphyh gkrh gA	4- budh nhokj iryh ,o de yphyh gkrh g A
5- bue jDr >Vd lkFk cgrk g A	5- /kheh xfr l cgrk g A
6- Q¶Ql /keuh d vfrfjDr lc e 'k) jDr gkrk g A	6- Q¶Ql f'kjk dk NkM dj lHkh e v'k) jDr jgrk gA
7- /kefu;k e dikV dk vHkko gkrk g A	7- f'kjkvk e dikV gkr g A
8- /kefu;k dk 0;kl de gkrk g A	8- f'kjkvk dk 0;kl vf/kd gkrk g A ¼½x8=4½

^^vFkok**

jDr d dk;k dk o.ku dhft ; &

¼1½ 'olu d fy, vko';d xlk dk ifjogu & jDr 'kjhj d iR;d Hkkx dh dkf'kdkvk e vkDlhtu igpkuk vkj ogk l dkcu Mkb vkDlkbM okil ykdj QQMk rd igpku dk dk; djrk g A

¼2½ HkkT; inkFkk dk ifjogu& jDr Hkktu l vo'kkf"kr fd; x; ikf"Vd rRok dk 'kjhj d iR;d vx rd igpku dk dk; djrk g A

¼3½ vif'k"V inkFkk dk fu"dklu & jDr p;kip; dh fØ;kvk e cuu okyh vof'k"V inkFkk dk mRltd vxk rd igpku dk dk; djrk g A tl& oDd] QQM] vkr vkfn rd A

¼4½ 'kkjhfjd rki dk fu;eu& dkf'kdkvk e vkDlhtu igpk dj tk vkDlhd.k dh fØ;k gkrh g A mll 'kjhj e xeh mRiUu gkrh g A jDr 'kjhj d vkUrfjd Hkkxk l xeh ydj ckgjh Hkkxk rd igpkrk g vkj lEi.k 'kjhj dk rkieku leku cuk; j[krk g A

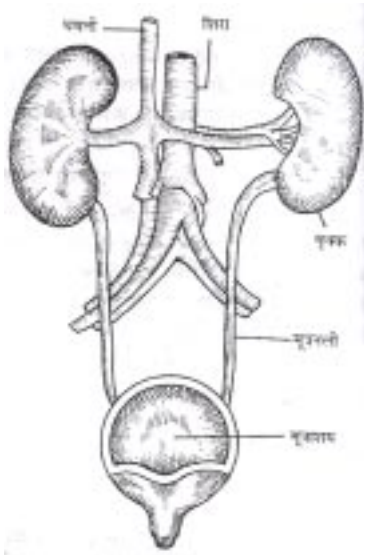
¼5½ 'kjhj d fofHkUu xfFk;k l tk L=ko mRiUu gkr g jDr mudk fufer dju d fy, mi;Dr inkFk igpkrk g A

¼6½ jDr gkekUl] foVkfeUl ,o vU; vko';d jlk;uk dk mud fØ;k dju oky LFkku ij igpkdj okgu dk dk; djrk g A

¼7½ 'kjhj e db j{kkRed dk; djr g tl 'or jDr df.kdk jkxk.kvk dk Hk{k.k dj 'kjhj dk jkxk l cpk; j[krk g A

mRrj 12& e= mRltu r= dk LoPN ukekfdr fp=&

¼fp= ij 3 vd] ukekdu ij 1 vd½



^^vFkok**

Ropk dk ukekfdr fp=&

-त्वचा की काट का रेखा चित्र

¼1 vd fp= ij] 1 vd ukekdu ij½

Ropk d dk; & ¼dkb Hkh 2 fcn ij 2 vd½

¼1½ Li'k Kku& Ropk Li'kfUn; g bll fofHkUu lonukvk dk Kku gkrk g A

¼2½ vfHk'kk"k.k& Åijh Ropk ij nokb ;k ry bR;kfn yxk;k tk; rk bl Ropk vfHk'kkf"kr dj yrh g A

¼3½ ilhu dk mRltu& ilhu d :i e fo"ky o 0;Fk inkFk dk Ropk mRlftr dj nrh g A

¼4½ 'kjhj dk rkiØe lkekU; cuk; j[kuk A

¼5½ lj{k.k& 'kjhj Hkhrjh ukt d vxk dk lj{k.k inku djrh g A

¼6½ foVkfeu Mh r;kj djuk & l; idk'k dh lgk;rk l Ropk foVkfeu Mh dk fuek.k djrh g A tk gfMM;k o nkrk dh etcrh d fy, vko';d g A

mRrj 13& ukMh lLFkku dk lcl cMk Hkkx g tk [kkiMh d vUnj fLFkr gkrk g A efLr"d d pkj Hkkx gkr g efLr"d d Hkkxk d uke ,o mud dk; fuEuku lkj g&

¼1½ **lfjce&** ;g efLr"d dk lcl cMk Hkkx g ;g nk xkyk)k e cVk gkrk g&

dk;& ¼1½ ijd dUn& ; i'kh; lLFkku dh lHkh ,fPNd if'k;k ij vf/kdkj j[kr g A

½2½ lonuk dUn& ble Ropk ,o if'k;k] vfLFk rFkk tkMk dk lonuk ikIr gkrh g A

½3½ fof'k"V lonuk dUn& n[ku] luu] l?ku] Lokn rFkk Li'k dk dUn g A

¼4½ mPp ekufld {kerkvk d dUn& pruk] Lej.k 'kfDr cf)erk] foopu 'kfDr vkfn dk dUn A

½2½ **ljhcye&** ;g ljhce l NkVk rFkk mld uhp fLFkr gkrk g A

dk;& ¼1½ 'kjhj dk lryu cuk; j[kuk A

½2½ if'k;k d dk; e leUo; A

¼3½ i'kh; xfr dk fu;f=r djuk A

¼3½ **ikUl cjkykb&** bud dk; fuEu g &

¼1½ fHkUu fHkUu Hkkxk l l"kEuk l gkdj tku okyh lonuk; ;gh l gkdj eflr"d dh vkj tkrh g A

¼4½ **eM;yk vkCykxVk&** efLr"d d lcl uhp dk Hkkx g A ;g 'kjhj dk egRoi.k vx g A

dk;& ¼1½ jDr ifjlpj.k] fuxyu dh fØ;k] gn; xfr] 'okl yuk vkfn dk dUn ;gh fLFkr g A bu fØ;kvk dk fu;=.k fd;k tkrk g A ¼1x4=4 vd½

^^vFkok**

ukMh dkf'kdk dh jpuk dk fp= lfgr le>kb;

ukV & fp= ij 2 vd]

o.ku ij 2 vd

mRrj 14& ikFkfed fpfdRlk& fdlh n?kVuk d le; ;k fdlh 0;fDr d vpkud chekj iM tku ij MkDVj d vku d io tk rkRdkfyd lgk;rk nh tkrh g] ml ikFkfed fpfdRlk dgr g A

ikFkfed fpfdRlk d fl)kr &

¼1½ ifjfLFkfr ij dkc ikuk & ikFkfed fpfdRlk dk lokf/kd fl)kr ifjfLFkfr ij fu;=.k ikuk A

¼2½ ;Fkk lEHko lko/kkuh& ?kk;y dh fLFkfr lEHkkouk] jDrL=ko jkdu dk i;kl djuk A

¼3½ Lo; /k; /kkj.k djuk & ikFkfed fpfdRld dk /k; iod dk; djuk mudk iFke dr0; g A

¼4½ ?kk;y dk rRdky fpfdRlk miyC/k djkuk A

¼5½ ,Ecyl rFkk MkDVj cyokuk A

¼6½ 'okl :duk & jkxh dk Ñf=e 'olu nuk A ¼1$3¾4 vd½

¼7½ fo"kiku & ;fn fdlh 0;fDr u fo"kiku dj fy;k g rk ml oeu djkuk vkfnA

^^vFkok**

ikFkfed fpfdRlk e ifVV;k dk fo'k"k egRo g ifVV;k dhVk.kjfgr LoPN ,o 'or oL= dh gkuh pkfg, A

ifVV;k d idkj& ifVV;k e[; :i l nk idkj dh gkrh g &

¼1½ frdkuh iVVh & dkguh l ydj gFkyh rd d Hkkx dk lgkjk nu d fy, bldk mi;kx fd;k tkrk g A bld rhu idkj g &

¼i½ ijh [kyh iVVh

¼ii½ pkMh iVVh

¼iii½ ldjh iVVh

¼2½ xky ;k yEch iVVh& gFkyh] vxB] ?kVuk] V[kuk flj vkfn e i;kx xdh tkrh g A

iVVh ck/ku d mnn';&

¼1½ ejge iVVh] [kiP;h ,o nok dk iHkkfor vx ij fLFkj j[ku d fy, A

¼2½ ?kk;y vx dk lgkjk nu d fy, A

¼3½ jDr iokg jkdu d fy, A

¼4½ nn ,o dEiu de dju d fy, A

¼5½ ltu de dju d fy, A

¼6½ ?kko dh xUnxh ,o dhVk.k l j{kk d fy, A ½2$2¾4½

¼7½ jkxh dk mBku vkj y tku e lgk;rk nu d fy, A

mRrj 15& **gn; dh jpuk &** ¼fp= e 1 vd] ukekdu ij 2 vd] 2 vd dk;fof/k ij½

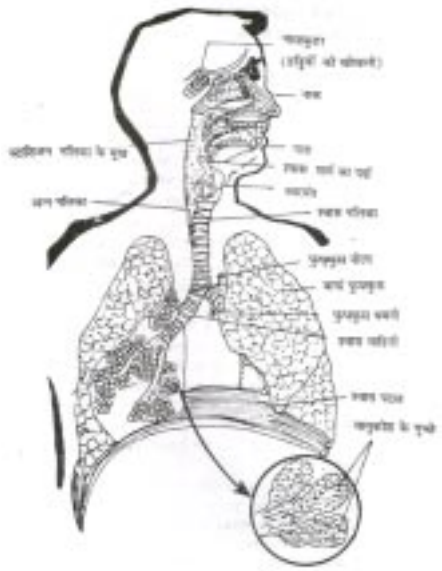
gn; dh dk;fof/k& vufPNd ekl if'k;k l cuk gvk gn; dk ikyk Hkkx lno jDr l Hkjk jgrk g A jDr d gn; e fujurj vku vkj tku d dkj.k mldh ekl if'k;k ,d iEi dh rjg dk; djrh g A nkfgu vkfyUn e vk;k gvk jDr nkfgu fuy; l QQM e tkrk g vkj ogk l ck; vkfyUn e vkdj ck; fuy; e mrjrk g ck; fuy; l egk/keuh e iEi fd;k tkrk g tgk l iEi.k 'kjhj e /keuh] /kefudkvk }kjk lEi.k 'kjhj e igpk;k tkrk g A

^^vFkok**

QQM dh jpuk& ilfy;k rFkk Nkrh dh gMMh vkj jhM d }kjk cu fitM l f?kj gn; d nkuk vkj nk QQM te g, g A QQM Lit d elku fNne; g A bldk jx ?klj gkrk g A iR;d QQM ij Q¶Ql koj.k ;k iyjk uke nk iYy okyh Fkyh dk vkoj.k jgrk g A

QQM d nk Hkkx g & ¼1½ nk;k] ¼2½ ck;k

nkfgu QQM d rhu Hkkx ,o ck; QQM d nk Hkkx gkr g A iR;d Hkkx d cgr l NkV&NkV db Hkkx gkr g A iR;d QQM e ,d ok;okfguh xb g A ;g vud 'kk[kkvk ,o mi'kk[kkvk e foHkkftr gk tkrh g A bu ok;okfguh ij ok;dk"k yx gkr g A



fp=& 1½ vd]
jpuk e 1½ vd
ifØ;k & 2 vd

jDr 'kf)dj.k dh ifØ;k& tc dHkh nk ok; tl CO_2 vkj vkDlhtu ,d nlj d utnhd vk tk; ;k mud chp ,d >huk ink gh jg rk FkkMh gh nj e ok; ,d nlj l fey tk;xh A bl idkj dh feJ.k fØ;k dk 0;frdj.k dgr g A 'k) gok 'okl ekx l QQMk d Hkhrj tc tkrh g rc iR;d ok;dk"k e gok d lkFk vkDlhtu Hkj tkrh g A ;gk ij d'kokfgfu;k dk tky gkrk g A ftle v'k) jDr jgrk g A ok;dk"k vkj d'kokfguh;k d vkoj.k bru iry gkr g fd ok;dk"k dh vkDlhtu vkj d'kokfguh dh CO_2 dk vknku inku gk tkrk g A yky jDr d.k e ghekXykfcu uked inkFk jgrk gA ftle O_2 dk [khpu dh 'kfDr jgrh g A ok;dk"k dh O_2 jDr e fey tkrk g vkj d'kokfguh e mifLFkr CO_2 ok;dk"k l gkrk gvk fuh'okl }kjk 'kjhj l ckgj fudky fn;k tkrk g A

mRrj 16& ifjHkk"kk ij & 1 vd

o.ku ij & 4 vd

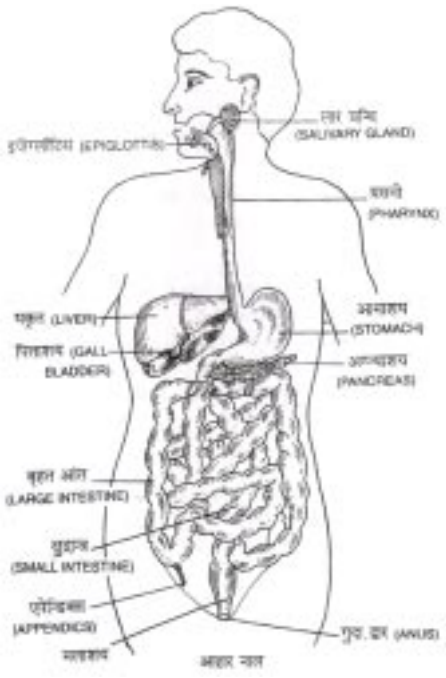
^^vFkok**

Fkk;jkfDlu gkeku dh deh l jkx & 2½ vd

Fkk;jkfDlu gkeku dh vf/kdrk l jkx & 2½ vd

mRrj 17& iR;d ij 5 vd

mRrj 18& vkgkj uky dk ukekfdr fp= & 3 vd] o.ku ij 3& vd



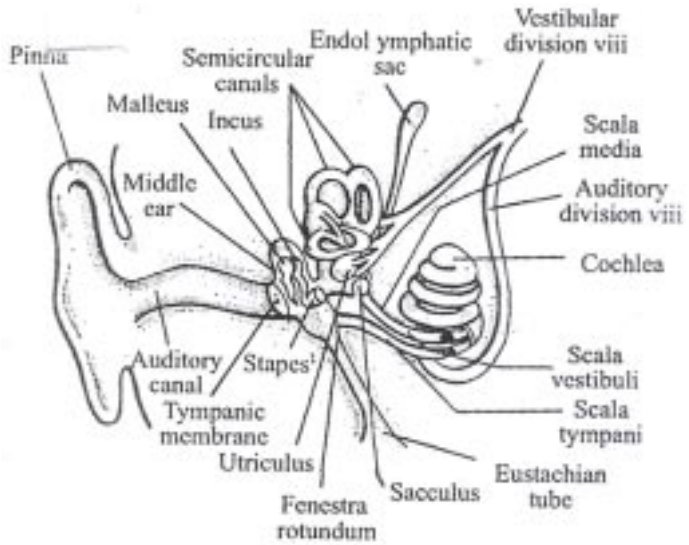
^^vFkok**

,fPNd i'kh & 2 vd

vufPNd i'kh & 2 vd

gn; i'kh & 2 vd

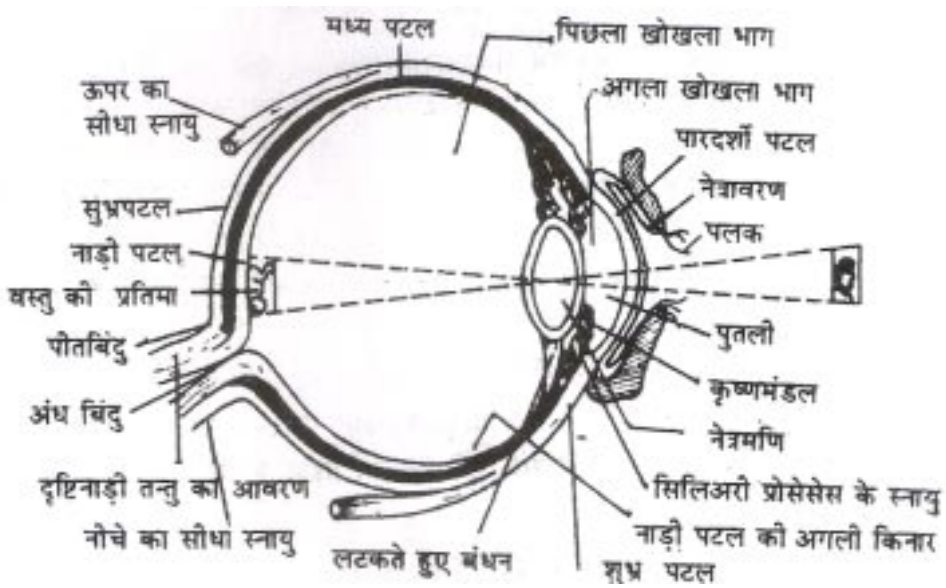
mRrj 19& dku dh jpuk dk fp= ij & 3 vd] o.ku ij & 3 vd



चित्र 15-27. मनुष्य के कर्ण का काट

^^vFkok**

vk[k dk ukekfdr fp= ij & 3 vd] o.ku ij & 3 vd



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