



tho foKku



d{k k XII



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i u & i = dh ; kst uk Scheme of Question Paper

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i wkk d % 75

l e; % 3 ?k/s

i jh{kk % gk; j l dsMjh

1/2 'k f.kd mnns ; ds vuq kj eku

(A) Weightage as per Educational objective:

l 0 00	mnns ;	vd	i fr'kr
1-	Kku (Knowledge)	37	49.3%
2-	vock'sk (Understanding)	25	33.3%
3-	vuq ; kx , oa d'sky (Application & Skill)	13	17.4%
	; kx	75	100%

1/2 bdkb'kj v dks dk eku

l 000	bdkbz dk uke	bdkbz ij vlc'vr vd	i u&i = ds ik: i vuq kj vlc'vr vd
1-	i k'ska ea cgp'ks kd; rk	15	15
2-	tUr'ka ea cgp'ks kd; rk	20	20
3-	i ztuu] of)] fodkl	10	10
4-	thou dh fujUrjrk	20	20
5-	tho foKku ds vuq ; kx	10	10
6-			
7-			
8-			
9-			
10-			
11-			
12-			

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Blue Print of Question Paper

fo"K; %& tho foKku

i wkkd %75

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i jh{kk %gk; j l dsMjh

bdkbz l-Ø	bdkbz	bdkbz ij vkaf/r vød	vødokj i zu							dgy i zu
			1 vød	2 vød	3 vød	4 vød	5 vød	6 vød	6 vød ; k bl l s vf/kd	
1	i k8kka ea cgplk's kdh; rk	15	1	1	2	&	&	1		¼½ \$ 4
2	tUr vka ea cgplk's kdh; rk	20	3	2	&	2	1	&		⅓½ \$ 5
3	i ztuu] of)] fodkl	10	2	&	1	&	1	&		½½ \$ 2
4	thou dh fujlrjrk	20	2	&	1	1	1	1		½½ \$ 4
5	tho foKku ds vuq; z, ksx	10	2	2	&	1	&	&		½½ \$ 3
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; ksx		75	1¼10½	5	4	4	3	2	&	¼½ \$ 18 ¾ 19

Set - A

Higher Secondary School Certificate Examination

English

SAMPLE PAPER

Subject - English
Class - 12th

Time- 3 Hrs
(M.M.) 75

(Instruction) & Directions

- 1- Attempt all the Question
- 2- Question 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- Question 02 to 06 are very short answer type question & it carries 02 marks each. Word limit is maximum 30.
- 4- Question 07 to 10 are short answer type question & it carries 03 marks each. Word limit is maximum 50.
- 5- Question 11 to 14 are short answer type question & it carries 04 marks each. Each question has internal choice. Word limit is maximum 75.

6- izu Øekad 15 I s izu Øekad 17 rd nh?kzRrjh; izu gSA iR; d izu ea vkrfjd fodYi gSvkj iR; d izu ij 05 vd vkcfVr gSA mRrj dh vf/kdre 'kCn I hek 100 '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 100.

7- izu Øekad 17 I s izu Øekad 19 rd nh?kzRrjh; izu gSA iR; d izu ea vkrfjd fodYi gSvkj iR; d izu ij 06 vd vkcfVr gSA mRrj dh vf/kdre 'kCn I hek 150 'kCn A

Q. No. 17 to 19 are long answer type question & it carries 06 marks each. Each question has internal choice. Word limit is maximum 150.

1. The following are the functions of the following glands -
- 1- The following are the functions of the following glands -
 v- The following are the functions of the following glands -
 Ck- The following are the functions of the following glands -
 Lk- The following are the functions of the following glands -
 n- The following are the functions of the following glands -
 - 2- The following are the functions of the following glands -
 v- The following are the functions of the following glands -
 Ck- The following are the functions of the following glands -
 Lk- The following are the functions of the following glands -
 n- The following are the functions of the following glands -
 - 3- The following are the functions of the following glands -
 v- The following are the functions of the following glands -
 Ck- The following are the functions of the following glands -
 Lk- The following are the functions of the following glands -
 n- The following are the functions of the following glands -
 - 4- The following are the functions of the following glands -
 v- 2
 Ck- 4
 Lk- 6
 n- 8
 - 5- The following are the functions of the following glands -
 v- The following are the functions of the following glands -
 Ck- The following are the functions of the following glands -
 Lk- The following are the functions of the following glands -
 n- The following are the functions of the following glands -

Que 1 (A) Select the best choice-

- (i) It is not the gland from the following-
 (a) Pancreas (b) Pituitary (c) Adrenal (d) Kidney
- (ii) This element is essential for the germination and growth of pollen tube-
 (a) sucrose (b) Boron (c) Calcium (d) Potassium
- (iii) DNA is present in -
 (a) only in nucleus and chlorophyll (b) only in nucleus
 (c) only in mitochondria (d) All in above
- (iv) The number of nucleus in embryo sac is
 (a) 2 (b) 4 (c) 6 (d) 8
- (v) Chattisgarh state is called herbal state because of
 (a) Forest medicine (b) Forest culture
 (c) Ayurvedic (d) Forest conservation

- 1/2 fjDRk LFkkuk dh IkRkZ dhfTk, &
- 1- vkOkUkChfTk, kka Eka HkukIk"K &&&&&&gkRkk gA
 - 2- ,khLV dks' kdkvka }kj k fd. OkUk&&&&&&&UkEkd , UTkkbEk dh Lkgk, kRkk Lks fd, kk TkkRkk gA
 - 3- EkkukOk EkFLR" d dk LkCkLks CkMk HkXk &&&&&gkRkk gA
 - 4- dN LkqEkTkhOk vIkUh TksOkd fØ, kvka }kj k HkEk dh mOkj k' kfDRk Ck<k nRks gA blg&&&&&dgRks gA
 - 5- TkCk jDRk Eka fIkRRk Ok. kD dh LkkaERkk Ck< TkkRkh gS Rkks bLk fLFkFRk dks &&&&&&&&jkXk dgRks gA

(B) Fill in the blanks -

- (i) Endosperm in angiosperm is
- (ii) Fermentation is done by enzymes in yeast cells.
- (iii) The biggest part of the brain is
- (iv) some of the micro-organism increass the of the soil.
- (v) When the concentratin of bile pigment increases in the blood then this position is called diseases.

Ikz Uk 2- Rkq'kLkh Eka fdLk IkZkj dk IkqIkØEk Ik, kk TkkRkk gA

Which type of inflorescenes in found in Tulsi?

Ikz Uk 3- fUkEuk IkS'kka ds dkSk Lks HkXk [kk | : Ik Eka mlk, kXk gkRks gA

1/2 eVj 1/2 vkyw

Which part of the following plant is used as edible part?

(a) Pea (b) Potato

Ikz Uk 4- ghUkRkk TKU, k IkFRkj kSkdRkk fdLks dgRks gA

What is called immuno-deficiency?

Ikz Uk 5- S.A. UkSM , Oka A.V. UkSM Eka dkBZ nks vBkj fYkf[k, A

Write any two differences between S.A. node and A.V. node.

Ikz Uk 6- /kEkfUk, kka Eka dIkKV Ukgha gkRks gS Ikj Rkq f' kj kvka Eka dIkKV i k; s tkrs gS D; ka
Valves are found in veins but they are absent in arteries, why?

Ikz Uk 7- fn, ks Xk, ks dk, kz fdLk gkEkKk }kj k IkfRkIkfnRk fd, ks TkRks gS

v- XkHkz k, k dh Ikf' k, kka dk f' k' kq TKUEk ds LkEk, k fLkdq/Ukk

Ck- Fkkbj kBM Lks Fkk, kj kbfDLkuk L«kkOk. k dks IkfjRk djUkk A

Lk- Ek«k Lks TKYk dh gkfUk dks dEk djUkk A

By which hormone, following functions are performed;

- (a) Contraction of muscles of uterus at the time of delivery.
- (b) Induction of thyroid for thyroxine secretion.
- (c) Loss of water from urine.

Ikz Uk 8- v«fDLkuk ds dkbZ Rkhuk IkEkq[k ml, k«k fykf[k, ks \

Write any three main functions of Auxine?

Ikz Uk 9 jalka ds [kYkUs, Oka Ckan gkSks dh fØ, k dks K⁺ LFkkukRkj . k Okn ds }kj k LkEkÖkb, ks

Explain the process of opening & closing of stomata on the basis of K⁺ transfer.

Ikz Uk 10 OkvLkuk, Oka Øhd ds vUk, kj DNA dk LkEkuk«kfrkd fPk«k Ckukdj fUkEuk dks UkkEkf«dRk dhfTk, &

- 1- 'kdj k v. kq
- 2- QkLQkfjd vEYk
- 3- UkkbV«fkhukLk {kj A

Labelled the following with the proportion of D.N.A. as per Crick & Watson -

- (i) Sugar molecule
- (ii) Phosphoric Acid
- (iii) Nitrogenous base.

Ikz Uk 11- ROkPk ds dkbZ Pkj dk, kz fykf[k, A

Write any four main functions of skin (integumentary system)

½/FlOkl½

dndkYk Rkæk ds dkbZ Pkkj IkEkq[k dk,kZ fYkf[k, \

Write any four main functions of Skeletal system.

Ikz Uk 12- Tkhuk fOkfUkEk,k ds dkbZ Pkkj EkGRok fYkf[k, \

Write any four importance of crossing over.

½/FlOkl½

EkkUOk Eka fYkæk fUk/kkZ .k fdLk Ikdkj gkRkk gS

How sex determination takes place in man.

Ikz Uk 13- LkCTkh IknhUk djUks OkkYks dkbZ Pkkj i kni ka ds LkkEkku,k , Oka OkSkkfUkd UkkEk fYkf[k, \

Write the common and botanical name of any four vegetable yielding plants.

½/FlOkl½

'kgn] j's kEk] EkPRkk] Ykk[k IknhUk djUks OkkYks TkRkq/ka ds LkkEkku,k , Oka OkSkkfUkd UkkEk fYkf[k, \

Write the common and scientific name of animals, which give Honey, silk, pearl and lac.

Ikz Uk 14- EkkUOk OkDd ds YkækOkRk~dkV dk UkkEkkaDRk fPk«k CkUkkb,ks

Draw labelled diagram of L.S. of Human Kidney.

½/FlOkl½

EkkUOk ân,k ds YkækOkRk~dkV dk UkkEkkaDRk fPk«k CkUkkb,ks

Draw labelled diagram of L.S. of Human Heart.

Ikz Uk 15- dñædh,k vEYk dk dksk Lkk Ikdkj Ikk,k% vUkqkka' kd IknhFkZ dgYkkRkk gS bLk vEYk dh LkãPkUkk LIk"V dhFTk, A

Which form of nucleic acid is called genetic material? Explain the structure of this material.

½/FlOkk½

वृककक' kd dkm D,kk gS bLkdh dkbZ Pkkj IkEk[k fok' kSkRkk, j fYkf[k, A

What is called genetic code? Write its any four characteristics.

Ikz Uk 16- fUkEuk vRk%«kkOkh XkFk, kq dgk; Ikk, kh TkkRkh gS, Oka bukds }kj k L«kkfOkRk gkEkklLk dk UkEk fYkf[k, RkFkk bukds vYi L=ko.k Lks EkkUkOk 'kj hj Ikj D,kk IkEkOk IkMRkk gS.

1- Fk, kj kbM XkFk

2- , fMUKYk XkFk A

Where the following endocrine glands are found? Write name of hormone secreted by these glands, and the effects of hyposecretion of these glands.

(i) Thyroid gland

(ii) Adrenal gland

½/FlOkk½

Fk, kj kbM XkFk , Oka , fMUKYk XkFk EkkUkOk 'kj hj Eka dgka Ikk, kh TkkRkh gS bukds }kj k L«kkfOkRk gkEkklLk dk UkEk fYk[kRks gq bukds vFRkL«kkOk.k Lks 'kj hj Ikj D,kk IkEkOk IkMRkk gS

Where the thyorid and adrenal glands are found in human body and what is their secretion. Write its name and the effects of their hypersecretion.

Ikz Uk 17- Ok, kRkk fdLks dgRks gS Ok, kRkk ds dkj .k 'kj hj Eka gkSkks OkkYks dkbZ Pkkj Ckâ, k dks' kd h, k Ikfj OkRkOk fYkf[k, A

What is called ageing? Write any four extraceular changes caused by aging.

½/FlOkk½

Ok, kRkk dk ^dkYkhTkUk Okn** D,kk gS Ok, kRkk ds dkbZ Pkkj IkEk[k Yk{k.k fYkf[k, A

What in collagen theory of ageing? Write any four characteristic of ageing?

Ikz Uk 18- , d Ok.kkØ/k Ikq "k RkFkk Okkgd L«kh }kjk mRIKUUK LkRkkUKka dh Ok.kkØ/kRkk dh Oká kkXkFRkdh dS.kh gkØkha j[s[kfPk«k }kjk LkEkÖkkb,ka

What will be hereditary of the family where a colour blind man got married with a carrier woman. Explain with ray diagram.

½/FkOkk½

, d ghEkKQhfYkd Ikq "k RkFkk LkkEkkU,k L«kh }kjk mRIKUUK LkRkkUKka dh Oká kkXkFRkdh dS.kh gkØkha j[s[kfPk«k }kjk LkEkÖkkb,ks

When a haemophilic man marry a general woman then what will their family hereditary. Explain with ray diagram.

Ikz Uk 19- UKkEkKfdRk fPk«k CkUkkdj Ikz,kkØk }kjk fLk) dhfTk, fd iØk'k Lká YkSk.k Eka vkØDLkhTKUK XkS.k fUkdYkRkh gS

Prove with the help of experiment and labelled diagram that oxygen gas is evolved during photosynthesis.

½/FkOkk½

UKkEkKfdRk fPk«k CkUkkdj Ikz,kkØk }kjk fLk) dhfTk, fd IkØk'k Lká YkSk.k dh fØ,kk Eka dKØkØk MkbbvkDLkkbM dh vkØk' ,kdRkk IkVRkh gS

Prove with the help of experiment and labelled diagram that carbon dioxide is essential for photosynthesis.

I Æ y mRRkj I V&,

mRRkj 1-¼/½

- 1- ¼n½ OkDd
- 2- ¼k½ Ckkj kUk
- 3- ¼n½ mlk, kØRk Lkhkh
- 4- ¼n½ 8
- 5- ¼/½ OkUkSk/kh

¼k½

- 1- Hkw ki kSkh
- 2- TkEbEkStk
- 3- I jhoæ
- 4- TkSOkd mOkj d
- 5- lkhfYk, kk A

mUkj 2- RkYkLkh Eka dW/pØ (verticillaster) lkdkj dk lktik ØEk gkRkk gA

mRRkj 3 Ekvj CkhTk ¼QYk ½ 1 vd
 vkYkRkUkk ¼dUn½ 1 vd

mRkj 4 fdLkh Hkh TkhOkka ds 'kj hj Eka lkk, ks TkkUks OkkYks lkrkj kSkh {kEkRkk Eka vkUks OkkYkh B &
 T ce11 dEkh dks ghUkRkk tU; lkrkj kSkdRkk dgRks gA LkEd{k mUkj fy[kus ij
2 vd

mRRkj 5 S.A. UkkM	S.A. UkkM
1- ân, k dh /kMEdUk mRlUk djRkk gA	1- vkOkkka dks CkUMYk vkØD fgTk EkaHkStkRkk gA
2- nkfgUks vfYkUn Eka fLFkRk gkRkk gA	2- nkfgUks, fM ^a kEk fNæ ¼fuy; ½ ds lkkLk fLFkRk jgRkk gA

,kk vU, k LkEd{k mUkj A lkr, kd Lkgh vURkj lkj , d vd

mRRkj 6- /kEkfUk, kka Eka #f/kj vf/kd Okk Lks CkgRkk gS bLkfykf, #f/kj fOk i jhRk fn'kk Eka CkgUks

dh LkhhkkkUkk Ukgha gkRkh fdBkq f'kj kvka Eka : f/kj /kEkh XkFRk Lks cgRkk gS bLkFYk,
 #f/kj fOkkjhRk fn'kk Eka Uk Ckgs bLkFYk, f'kj kvka Eka dIkV lkk,ks TkkRks gA

/kEfkUk, kka 1\$1 vD f'kj kvka ds FYk, $\frac{3}{4}$ 2 vD

- mRRkj 7 $\frac{1}{4}$ $\frac{1}{2}$ gkEkkBk&fj YkDLkhuk 1 vD
- $\frac{1}{4}$ $\frac{1}{2}$ Fkk, kj kbM LVhEkYkSVYk gkEkkBk (TSH) 1 vD
- $\frac{1}{4}$ $\frac{1}{2}$ OkLkSkfLkUk 1 vD
- mRRkj 8- vkDLkhuk gkEkkBk ds dk, kz & Rkhuk dk, kz FYk [kUks lkj 3 vD
- mRRkj 9- LkØh, k K⁺ LFkkUkkBkj .k Ok. kZk lkj 3 vD
- Ek[,k fCkng & LVkEkS/k dk K⁺ dk FYk, kk TkkUk LVkEkS/k dk CkUn gkSkk , Oka K⁺ dk XkkMZ dks' kdk Lks Ckkgj TkkUk Rfkk H⁺ dk EkkUk Lkg, kd dks' kdk kvka Eka vkUks ds dkj .k LVkEkS/k dk [kYkUks dh fØ, kk A
- mRRkj 10- lR, kd Lkgh fp= ij 1½ vD] UkkEkkaduk lkj 1½ vD 3 vD
- mUkj 11- ROkPk ds Pkj dkbZ Pkj dk, kz FYk [kUks lkj 1×4 vD 4 vD
- vFkOkk
- dadkYk Rkæk ds dkbZ Pkj dk, kz FYk [kUks lkj lR, kd Eka 1×4 vD 4 vD
- mRRkj 12- Tkhok fOkfUkE, k ds dkbZ Pkj EkgRok FYk [kUks lkj lR, kd Eka 1×4 vD 4 vD
- vFkOkk
- lkfØ, kk dk Ok. kZk djUks lkj 4×1 = 4 vD
- mRRkj 13- dkbZ Pkj lknlkka ds LkkEkkU, k UkkEk lkj lR, kd Eka $\frac{1}{2}$ vD×4
- Rfkk OkUkLkFRkd UkkEk lkj $\frac{1}{2} + \frac{1}{2} = 1 \times 3$ vD
- vFkOkk
- 'kgn] j's kEk] EkPRkk] Ykk [k nBks OkkYks TkkRkq dk UkkEk OkSkfUkd UkkEk
- 'khlk LkkEkkU, k UkkEk FYk [kUks lkj $\frac{1}{2}$ vD , Oka OkSkfUkd UkkEk FYk [kUks lkj $\frac{1}{2} + \frac{1}{2} = 1 \times 4$ $\frac{3}{4}$ 4 vD
- mRRkj 14 EkkUok OkDd YkAkORk dkV dk fPkæk CkUkkUks lkj 2 vD
- dEk Lks dEk Pkj UkkEkkaduk djUks lkj 2 vD dYk 4 vD

vFk0kk

- mRRkj 15- EkkUk0k 2n,k ds L0kPN fPk«k CkUkkUks lkj 2 v0d
, 0ka dEk Lks dEk Pkkj UkkekK0dUk lkj 2 v0d 4 v0d
DNA dk lkj k Ukkek fYk[kUks lkj & 1 v0d
DNA dh Lkj PkUkk fYk[kUks lkj & 4 v0d dYk 5 v0d A

vFk0kk

- mRRkj 16- vUk0k0k' kd d0kM dh lkj Hkk"kk fYk[kUks lkj & 1 v0d
Pkkj lR,kd d0bz f0k' k0kRkkvka lkj 1&1 v0d 3/4 4 dYk 5 v0d
gkjEkk0k ds LFkkUk CkRkkUks lkj] gjjEkk0k dk Ukkek fYk[kUks , 0ka lk0kj fYk[kUks lkj
lR,kd Xk0Fk lkj $1\frac{1}{2} + 1\frac{1}{2} + 2\frac{3}{4}5$ v0d

vFk0kk

- mRRkj 17- gjjEkk0k ds LFkkUk CkRkkUks lkj] , 0ka gjjEkk0k ds Ukkek fYk[kUks lkj vFRkL«kk0k l s' kjhj lkj
i Hkko & 7 lk0kj fYk[kUks lkj lR,kd Xk0Fk lkj $1\frac{1}{2} + 1\frac{1}{2} + 2\frac{3}{4}5$ v0d
0k,kRkk dh lkj Hkk"kk fYk[kUks lkj 1 v0d , 0ka d0bz Pkkj mlk,k0PRk lkj 0kRk0k fYk[kUks lkj
4 v0d dYk & 5 v0d A

vFk0kk

- mRRkj 18- dkykhTkUk0kkn fYk[kUks lkj 1 v0d
0k,kRkk ds d0bz Pkkj Yk{k.k fYk[kUks lkj 4 v0d dYk & 5 v0d
j0[kk0fPk«k CkUkkUks lkj 3 v0d
0k.k0k lkj 3 v0d dYk & 6 v0d A

vFk0kk

- mRRkj 19- j0[kk0fPk«k CkUkkUks lkj 03 v0d
0k.k0k djUks lkj 03 v0d dYk 06 v0d

vFk0kk

- UkkEkk0dRk fPk«k & 02 v0d
0k.k0k djUks lkj & 04 v0d dYk 06 v0d A

Set - B

Higher Secondary School Certificate Examination

English

SAMPLE PAPER

Subject - English
Class - 12th

Time- 3 Hrs
(M.M.) 75

(Instruction) & Directions

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Q. No. 15 to 17 are long answer type question & it carries 05 marks each. Each question has internal choice. Word limit is maximum 100.

7- izu Øekad 17 I s izu Øekad 19 rd nh?kzRrjh; izu gSA iR; d izu ea vkrfjd fodYi gSvkj iR; d izu ij 06 vd vkcfVr gSA mRrj dh vf/kdre 'kCn I hek 150 'kCn A

Q. No. 17 to 19 are long answer type question & it carries 06 marks each. Each question has internal choice. Word limit is maximum 150.

1. Lkgh f0kdYIk Pk0Uk,ks &

- 1- C_3 Ikk8kka Eka Ikzdk' k Lk4 Yk8k. k dk IkFkEk LFkk, kh mRlkkn gS
 $\frac{1}{2}$ 3&QkLQk8XYkLfjd vEYk $\frac{1}{2}$ Mkb gkbMRDLkh , I hvk8k QkLQ8
 $\frac{1}{2}$ YDvk8k1]6 MkbQkLQ8 $\frac{1}{2}$ jkbCk8k8k8k 1]5 &MkbQkLQ8/ A
- 2- ,kfn EkkUkOk 'kj hj Eka ,kNrk dks gvK fn, kk Tkk, ks RkCk ,kg OkT, kz IknkFkz #f/kj Eka Ck<
Tkk, k8kk&
 $\frac{1}{2}$ vEkk8Uk, kk $\frac{1}{2}$ Oh, fVUk $\frac{1}{2}$,kij, kk $\frac{1}{2}$,kij d vEYk A
- 3- Ek/k8kD [kh IkkYkUk dgYkkRkk g8
 $\frac{1}{2}$ Lkj h&dYPkj $\frac{1}{2}$, shk&dYPkj $\frac{1}{2}$ fIkLkh&dYPkj $\frac{1}{2}$, DOkk&dYPkj A
- 4- Okg TkhUk vIkUkh vfhkO, kfDRk dks Iknf' k8k Ukgha dj Rks g8 bluga dgRks g8
 $\frac{1}{2}$ LkkbYk8V TkhU $\frac{1}{2}$ TkfEIk8k TkhUk $\frac{1}{2}$ j8k8k8/j TkhUk $\frac{1}{2}$ IkEkk8/j TkhUk
- 5- ,kg Ikk8Yk, kks fCkEkkjh dk dkjd gkRkk g8
 $\frac{1}{2}$ TkhOkk. kq $\frac{1}{2}$ Okh"kk. kq $\frac{1}{2}$ Ikk8/k8k8k8/k $\frac{1}{2}$ TkhOkk. kq Hkkst h

Que 1 (A) Select the best choice -

- (i) The first stable product of photosynthesis of C_3 plants is -
(a) 3-phosphoglyceric acid (b) Di-hydroxy acetonephosphate
(c) Fructose 1.6 Disulphate (d) Ribulose 1.5 - diphosphate
- (ii) If liver is removed from the human body, than this waste material will increase in the blood
(a) Ammonia (b) Kreatin (c) Urea (d) Uric acid
- (iii) Rearing of honey bee is called;
(a) Seri culture (b) Api culture (c) Pisci culture (d) Aqua culture
- (iv) The genes which do not express then are called;
(a) silent gene (b) jumping gene
(c) regulator gene (d) promoter gene
- (v) It is the caustive agent of polio -

- (a) Bacetria (b) Virsus (c) protozoa (d) Bacteriophage

1/2 f j DRk LFkkUKka dh IkfRkZ dhfTk, &

- 1- DNA Lks mRNA dk GUKUKk &&& dgYkRkKk gA
- 2- RkqkLkh ds IkqIk &&&&&& IkqIkØEk dk mnkgj.k gA
- 3- vUkqkaf' kdh ds TkUkd ØKkfkUkd dk UkkEk &&& gS
- 4- fMqfFkfhj ,kk UkkEkd jkKk &&&&&& ds dkj.k gkRkKk gA
- 5- Økg /kEkUkh tks v'kq) j DRk dk LkØkgUk djrh gS mLks &&&& dgRks gA

(B) Fill in the blanks -

- (i) Formation of mRNA from DNA is called
- (ii) Flower of tulsi, is the example of inflorescences.
- (iii) Name of discoverer of genetics is
- (iv) The causative agent of Diptheria is
- (v) The artery which carries the impure blood is called

1kz Uk 2- Lkj Lkka Eka fdI IkØkj dk IkqIkØEk Ik ,kk TkkRkKk gA

Which type of inflorescence in found in Mustard?

1kz Uk 3- fUkEuk Ikkskka ds dkØk Lks HkkXk fdLk : Ik Eka mlk ,kkkKh gkRks gS &

1/2 /kkUk 1/2 j Ckj

Which part of the following plants are useful -

- (a) paddy (b) rubber

1kz Uk 4- /kEkfUk ,kka dh Xkqk LkØjh gkRkh gS fdØkq f' kjkvka dh Xkqk PkkS/h gkRkh gS D ,kka

Cavity of artery is narrow but cavity of veins is broad. Why?

1kz Uk 5- STD D ,kk gS bLkLks gkRks ØkYks dkØZ nks jkKkka dk UkkEk fYkf [k, A

What is S.T.D.? Write the name of any two disease caused by S.T.D.

1kz Uk 6- [kYkk , Øka Ckm Ikfj LkØkj .k Rkæk Eka dkØZ nks vØkj fYkf [k, A

Write any two differences between open and closed circulatory system.

- Q7- $\frac{1}{2}$ f' k' kq TkUEk ds LkEk, k IkfYOkd LUKk, kq dks UkjEk djUkk A
 $\frac{1}{2}$ f' k' kq TkUEk ds Rkj Bk Ckn LRUkXkFk, kka Lks nq/k fukdYUkk
 $\frac{1}{2}$ Ukj , Oka Ekknk Eka , kqEkd TKUKUK dks IkfjRk djUkkA

Which hormones perform the following questions -

- (a) Softness of pelvic nerve at the time of delivery
- (b) Secretion of milk from mammary gland just after delivery.
- (c) To induce the male and female gamete.

- Q8- LkbbVksdkbUkhuk ds dkbz Rkhuk IkEkqk mlk, kkkk fykf[k, A

Write any three functions of cytokinin.

- Q9- CYkdEkdk ds LkhEkk dkj dka ds fLk) kkk dks LkEkOkkb, ka

Explain the limiting factors principle of blackman.

- Q10- , d LkkEkkU, k Ikq "k RkFkk Okgd L<kh }kjk mRlUUK LkRkkUkka Eka Ok. kkd/kRkk dh
 Okd kXkfrkdh, k vkjs[k CkUkkdj IkfRk' kRkRkk dks lknf' kkk dhfTk, A

Demonstrate the percentile of hereditary with ray diagram of a common man and carrier woman of colour blindness.

- Q11- ROkPk ds dkbz Pkkj dk, kz fykf[k, A

Write any four main functions of skin (integumentary system)

$\frac{1}{2}$ f' k' kq TkUEk ds LkEk, k IkfYOkd LUKk, kq dks UkjEk djUkk A

Write any four main functions of Skeletal system.

- Q12- Tkhuk fOkfUkEk, k ds dkbz Pkkj EkgRk fykf[k, \

Write any four importance of crossing over.

$\frac{1}{2}$ f' k' kq TkUEk ds LkEk, k IkfYOkd LUKk, kq dks UkjEk djUkk A

How sex determination takes place in man.

13- Write the common and botanical name of any four vegetable yielding plants.

1/2

Write the common and scientific name of animals, which give Honey, silk, pearl and lac.

14- Draw labelled diagram of L.S. of Human Kidney.

1/2

Draw labelled diagram of L.S. of Human Heart.

15- Which form of nucleic acid is called genetic material? Explain the structure of this material.

1/2

What is called genetic code? Write its any four characteristics.

16- Where the following endocrine glands are found? Write name of hormone secreted by these glands, and the effects of hyposecretion of these

- 1- Thyroid gland
- 2- Pituitary gland

Where the following endocrine glands are found? Write name of hormone secreted by these glands, and the effects of hyposecretion of these

glands.

- (i) Thyroid gland
- (ii) Adrenal gland

½/FOkk½

Fkk,kjkbM XkãFk , Oka , fMUKYk XkãFk EkkUKk 'kjhj Eka dgka lkk, kh TkkRkh gS buKds }kjk L«kkfOKRk gkEkkLk dk UKkEk fYk[kRks gq buKds vFRkL«kkOk.k Lks 'kjhj lKj D,kk lKkkOk lKMRkk gS

Where the thyorid and adrenal glands arefound in human body and what is their secretion. Write its name and the effects of their hypersecretion.

Ikz Uk 17-

Ok,kRkk fdLks dgRks gS Ok,kRkk ds dkj.k 'kjhj Eka gkãks OkkYks dkbZ Pkkj Ckã,k dks'kdh,k lKj OkRkZk fYk[k, A

What is called ageing? Write any four extraceular changes caused by aging.

½/FOkk½

Ok,kRkk dk ^dksYkhTKUk Okn** D,kk gS Ok,kRkk ds dkbZ Pkkj lKk[k Yk{k.k fYk[k, A

What in collegen theory of ageing? Write any four characteristic of ageing?

Ikz Uk 18-

,d Ok.kkZ/k lKq "k RkFkk Okkgd L«kh }kjk mRlUUK LkRkkUkka dh Ok.kkZ/kRkk dh OkãkkXkFRkdh dLkh gkãkhA j[s[kfPk«k }kjk LkEkÖkkb,kA

What will be heriditary of the family where a colour blind man got married with a carrier woman. Explain with ray diagram.

½/FOkk½

,d ghEkkQhfYkd lKq "k RkFkk LkEkku,k L«kh }kjk mRlUUK LkRkkUkka dh OkãkkXkFRkdh dLkh gkãkhA j[s[kfPk«k }kjk LkEkÖkkb,kA

When a haemophilic man marry a general woman then what will their family heriditary. Explain with ray diagram.

19- Prove with the help of experiment and labelled diagram that oxygen gas is evolved during photosynthesis.

1/2

Prove with the help of experiment and labelled diagram that carbon dioxide is essential for photosynthesis.

I Æi y mRRkj LkV&Ckh

mRRkj 1-1/4 1/2 Lkgh f0kdYIk&

1/4 1/2 v 3& QkLQkSjd vEy

1/2 1/2 v vekfu; k

1/3 1/2 Ck , i hdYpj

1/4 1/2 v I kbydV thu

1/5 1/2 Ck fo"kk. kq

1/6 1/2 fjDRk LFkkuk dh IkRRkZ dhfTk,

1/4 1/2 vUkyks[kuk

1/2 1/2 dWPKØd

1/3 1/2 EkSMYk

1/4 1/2 dkj hUkh CkDVhfj ,kk fMqFkhj kbZ

1/5 1/2 IkYI k0kj h /kEkUkh

mUkj 2 typical raceme WkkEk lkj 2 vad 1/2

mUkj 3 1/4 1/2 /kkUk& Hkkukh Lks RkSk fukdkYkk TkkRkk gA

[kkn ds mlk, kkk ea pkoy fn, kk TkkRkk gA

vkfn LkHkh lkj mUkj lkj 1 vad

1/6 1/2 jCkj & RkUks ds nWk (latex) Lks

Vk, kj Vî k , Oka vU, k jCkj LkkEkXkh CkUkkus ea

2 vad A

mUkj 4 /kEkfUk, kka dh nhOkkj EkS/h gkRkh gS D, kkfid jDRk nCkkOk ds LkkFk CkgRkk gA fTkLkLks

mLk nCkkOk dks LkgUk dj Lkds , Oka QVs Uk] vRk% Xkgk Lkdjh gkRkh gA f' kjkvka I s

jDRk /khjs &/khjs CkgRkk gA vr% QVUks dh Lk0kkOkUkk Ugha gkRkh gA fTkLkLks IkRkYkh

gkRkh gS fTkLkds dkj .k mlkdh Xkgk PkkS/h gkRkh gA

mUkj 5 STD = Sexually Transmitted Diseases – 1+1/2+1/2 = 2

1- , MEk 2- TkVkbYV gikZ 3- NGU

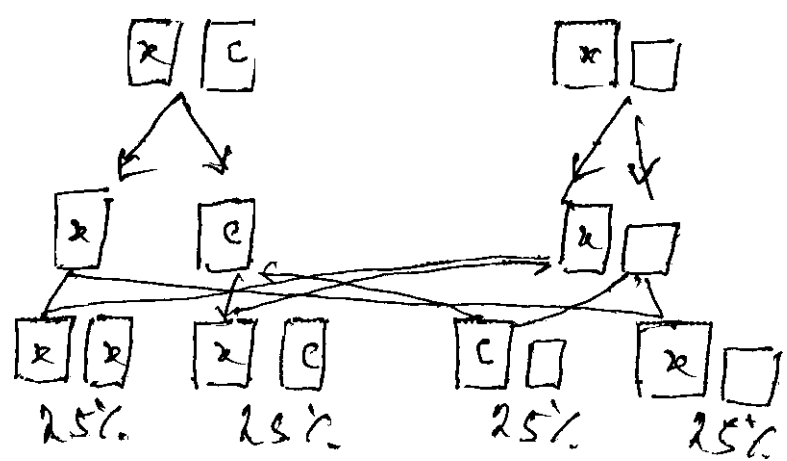
- mùkj 6 [kqkk Ikfj LkRkj . k Ckm Ikfj LkRkj . k
- 1- bLkEka #f/kj Ukyk, kka Eka CkgRkk gS 1- bLkEka #f/kj Ukyk, kka Eka Ukgha CkgRkk
 vkj vUksd LFkkuka Ikj mRRkdka ds
 Lkh/ks I à dZ Eka CkgRkk gS
- 2- #f/kj gkEkkt.kh. M Eka Hkjk gkRkk gS 2- bLkEka ghEkkt.kh. M Ukgha gkRkka

- mùkj 7 ¼½ Relaxin Hormone ¼jyDI hu gkeku½ 1×3=3
- ¼k½ Lactogen Hormone ¼yDVkst u gkeku½
- ¼k½ Gonads Hormone ¼tun gkeku½

- mùkj 8 1- dks'kdk foHktu 1×3=3
- 2- Ikk.kqIRk dks nij djUkk A
- 3- Tkh. kRkk Eka fokYka ; k I ed{k mRrj

mùkj 9 TkCk fdLkh fØ; k dh RkhORkk CkgRk Lks IkFkd IkFkd dkjdka ds }kjk fuk/kkZjRk gkRkh
 gSRkCk mLk fØ, kk dh nj U, kRkRkEk Ekk«kk Eka mlkFLFRk dkjd ds }kjk LkhFEkRk dh
 TkkRkh gS 1×3=3

mùkj 10- Okgd L«kh LkkEkkU, k Ikq "k



2+1=3

- mùkj 11 1- 'kj hj Lkj {kk 1×4=4
- 2- RkkIk fuk, k«k. k
- 3- fokvkefEkk dk fukekz k

4- mRLkTkWKA ½bLkh lkzdkj LkEkd{k mÜkj lkj vad lknkuk djA½
vFkOkk

1- Lkj PKUKKREkd <kPkK CKUKKUKk 1×4=4

2- vBkj kaxks dh Lkj {kk

3- vk/kkj lknkuk djUkk

4- XkFRk , Oka lkPkYKUK Eka l gk; rk

½bLkh lkzdkj LkEkd{k mÜkj lkj vad lknkuk djA½

mÜkj 12 1- TkhOkka Eka fOkfHkUUKRkk, a vkrkh gS Tkks fOkdkLk ds fYk, vkOk' ,kd gA 1×4=4

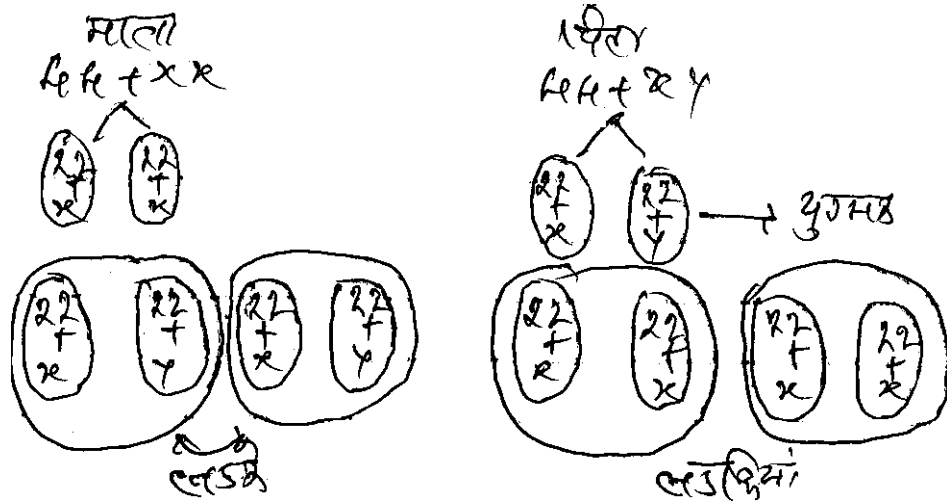
2- vf/kd mRlknnd TkkFRk ds lkkSkka ds mRlknUk Eka

3- Uk,ks y{k.k ,kPRk TkhOk mRlUUK gkBks gA

4- XkqkLkqkka lkj TkhOk dh jS[kd fOkU,kkLk dh lkq"V gkBkh gA

¼ k LkEkd{k mÜkj lkj vad fn,ks Tkk,kS½

vFkOkk



2 vad

mÜkj 13 1- VEKkVj - Lycopersicum esculentum

½×½×4=4

2- djYkk - Mamordica charantia

3- fhk.Mh - Hibiscus esculentum

- 4- vKYkw - Solanum Tuberosum 1/2 × 1/2 × 4 = 4
 vFkOkk
 'kgn & Ek/kkD [kh & Bombyx mori
 j's kEk & PkhUkh j's kEk dhV & Apisindica
 EkPRkk & Pearl Oyester – Pictada vulgaris
 Ykk [k & Lacifer
- mÙkj 14- EkkUOk OkDd ds LkEkd{k dkV lkj 2 vØ A 2\$2 ¾ 4
 Lkgh & 2 UkkEkkØUk lkj & 2 vØ
 vFkOkk
 EkkUOk ân,k ds L.S. lkj & 2 vØ A 2\$4 ¾ 6
 Lkj PKUkk , Øka UkkEkkØUk lkj 2\$2 vØ
- mÙkj 15- mRNA Eka mlkLFkrk UkkbV/TKUkh CkLk dk fvYks/ gSTkks DNA [k.M Lks lkrRkdr
 gkRkk gS , Øka fØk' k"V vEkhUkka vEYkka dks dkM djRkk gS A
 bLkh ds LkEkd{k lrfjHkk"kk lkj & 1 vØ A
 fØk' k'skrkk , a 1\$4 ¾ 5
- 1- ,kg fvYks/ dkM gA
 - 2- ,kg dkEkk foghUk gkRkk gA
 - 3- dkM LkOkkZ«kd gkRkk gA
 - 4- dkM LkfnX/krkk
- mÙkj 16 1- Fkk,kjkbM & ,kg XknØk Eka 'ØkLkuyh ,kk LØj ,kak ds TkkM Eka nkskkarKjQ , d& , d
 dh Lk[,kk Eka lkkbz TkrRkh gA 1½ + 1½ + 2 = 5
 T₄ Fkk,kjkdLkhUk] T₃ ¼/Øbz vk,kMkFkk,kjkdLkhUk½
 jksx & tM okeurk] fedl hMek] ?kRkk] gkl heks/ks
 2- , fMØkYk XkFk & nkskk ØDØka ds 'kh"z lkj Vkskh ds LkEkkUk , d l j p uk gkRkh gA
 gkEkkØk& , LVØTkuK] , Mfyyu] UkkUk , Mfyyu A
 vYi L=ko.k& , fMLUk] dksLkjkk] gkbllkYkkbLkhfEk,kk jkk gks TkrRk gA

√FkOkk

√FRk L«kkOk.k Lks

1½+1½+2=5

- 1- mIkIkPk₃kh fØ₃kk, j Ck<+ TkkRkh gS
 - 2- V; Iikj jkkk gks TkkRkk gA
 - 3- XkØLk jkkk gks TkkRkk gA
 - 4- LOkHkkOk XkFk dgYkkRkh gS √FkkRk LOkHkkOk Eka Ikfj OkRkZk gks TkkRkk gA
- mÙkj 17- TkCk 'kjhj dh dk₃kZkEkRkk Eka dEkh vkRkh gS mEkz Ck<Øks ds dkj .k ml s Ok₃kRkk dgRks gA

IkR₃kd Ckâ₃k dks' kdh₃k Ikfj OkRkZk Eka 1 vð

√FkOkk

dkYkhTkUk okn fYk [kUks Ikj 1 vð

Ok₃kRkk ds dkj .k fYk [kUks Ikj 4 vð A

- mÙkj 18- Ok.kkØ/kRkk dh OkákkXkFRkdh fYk [kUks Ikj 3 vð
- vkj§[k Ikj 3 vð

√FkOkk

ghEkKØhfyd Ikq "k RkFkk LkkEkku₃k L«kh dh LkRkkUkka Eka OkákkXkFRkdh ds Ok.kØk Ikj 3 vð

vkj§[k Ikj 3 vð

- mÙkj 19- UkkekkfðRk fPk«k Ikj 2 vð &
- O₂ dh fØ₃kk Ikj 4 vð A

√FkOkk

UkkekkfðRk fPk«k Ikj 2 vð

CO₂ dh vkOk' ₃kdRkk dks lknf' kRk djUks fof/k ds o.kZu ij & 4 vð

Set - B

Higher Secondary School Certificate Examination

English

SAMPLE PAPER

Subject - English
Class - 12th

Time- 3 Hrs
(M.M.) 75

(Instruction) & Directions

- 1- Attempt all the Question
- 2- Question 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- Question 02 to 06 are very short answer type question & it carries 02 marks each. Word limit is maximum 30.
- 4- Question 07 to 10 are short answer type question & it carries 03 marks each. Word limit is maximum 50.
- 5- Question 11 to 14 are short answer type question & it carries 04 marks each. Each question has internal choice. Word limit is maximum 75.

6- izu Øekad 15 I s izu Øekad 17 rd nh?kzRrjh; izu gSA iR; d izu ea vkrfjd fodYi gSvkj iR; d izu ij 05 vd vkcfVr gSA mRrj dh vf/kdre 'kCn I hek 100 '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 100.

7- izu Øekad 17 I s izu Øekad 19 rd nh?kzRrjh; izu gSA iR; d izu ea vkrfjd fodYi gSvkj iR; d izu ij 06 vd vkcfVr gSA mRrj dh vf/kdre 'kCn I hek 150 'kCn A

Q. No. 17 to 19 are long answer type question & it carries 06 marks each. Each question has internal choice. Word limit is maximum 150.

- Ikz Uk1 1/2 Lkgh fkdYIk Pkdkdj FYkf[k, &
- 1- TkhfUk, kk 'kCn IkjKXdj.k ds bLk HkkXk Ikj IkHkkOk n'kkRkk g&
 1/2 dkf, kd mRRkd Ikj 1/2 Tkm+Ikj
 1/2 IkqIk Ikj 1/2 Hkwk Ik"K Ikj A
 - 2- Qs yk , LQkbFVMk Lks IkIRk ghak gkRkk g&
 1/2 Tkm+dk jSTku , kPRk L«kkOk.k 1/2 QYk
 1/2 IkqIkØEk 1/2 IkfUk, kka
 - 3- EKSMYk dk f}Lkdjh, k vUkdkRk g&
 1/2 1%
 1/2 9%
 1/2 3%
 1/2 9% %
 - 4- RkqLkh ds Ikks Eka bLk Ikdkj dk IkqIkØEk Ik, kk TkkRkk g&
 1/2 dVksj, kk 1/2 dWPKØd
 1/2 mnEckjd 1/2 Ekq Md A
 - 5- vIkwkZ IkHkkfOkRkk Eka TkCk YkkYk , Oka LkQn jk ds IkqIk, kØEk fkdYIkka Lks ØKLk dj, kk
 TkkRkk gS Rkks mRIkUk gkks OkkYk IkqIk dk jk gkRkk g&
 1/2 YkkYk 1/2 LkQn
 1/2 CkSkukh 1/2 Xkq'kkCkha

Que 1 (A) Select the best choice -

- (i) The word "Zenia" shows the effect on this part of pollen grain;
 - (a) on morphological tissue
 - (b) on embryosac
 - (c) on flower
 - (d) on Endosperm
- (ii) Heeng is obtained from this part of Ferula asafotida;
 - (a) Resin secretion of root
 - (b) fruits
 - (c) Inflorescence
 - (d) leaves
- (iii) Dihybrid ratio of Mendal is -
 - (a) 1:1:1:1
 - (b) 3: 1

(c) 9:3:3:1

(d) 9:1:1:5

(iv) This type of inflorescence is found in Tulsi -

(a) Cyathium

(b) Verticillaster

(c) Hypanthodium

(d) Capitulum

(v) What F_1 of incomplete dominance red and white flower are crossed then produced colour of flower is

(a) red

(b) white

(c) violet

(d) pink

1/6 1/2 f j DRk LFkkUKka dh IkRkZ dhfTk, &

1/4 1/2 Ekak dk i hyk j ak &&&&Ok.kd ds dkj.k gkRkk gA

1/2 1/2 CkhTkk.M Lks fuk"kbUK Ik' PkkRk- &&&&CkUKRkk gA

1/3 1/2 LkqkEkv[kh &&&&IkqIkØEk dk mnkgj.k gA

1/4 1/2 'kh"Kz IkEkKfOKRkk &&&&gkEkKØk }kj k fuk/kkZjRk gkRks gA

1/5 1/2 jkmCkkfYQ,kk LkIkØVkbUkk &&&&dØk dk lknIk gA

(i) The yellow colour of urine is due to pigment.

(ii) is formed from ovule after fertilization.

(iii) Sunflower is an example of inflorescences.

(iv) Apical dominance is directed by hormone.

(v) Raw bo flabia serpentene is an example of family.

Ikz Uk 2- vākhj Eka fdLk Ikdkj dk IkqIkØEk Ik,kk TkkRkk gA

Which type of inflorescence is found in fig?

Ikz Uk 3 fukEuk IkSkka ds dkØk&dkØk Lks HkkXk fd : Ik Eka mlk,kkkh gkRkk gA

1/4 1/2 PkUkk 1/6 1/2 LkIkØkA A

Which part of the following plant is useful in whcih form -

(a) Gram (b) Surpgandha

Ikz Uk 4- Ckm IkfjLkØkj.k Rkæk Eka jDRk nkCk vf/kd D, kka gkRkk gA

Why there is more blood pressure in closed circulatory system?

Ikz Uk 5- Tksk mOkj d fdLks dgRks gS

What is called biofertilizer?

Ikz Uk 6- ROD and CONS Eka dkbZ nks vRkj fYkf[k, \

Write any two differences between ROD and CONS

Ikz Uk 7- EkkUOk 'kjhj Eka fUkEuk fOkNfRk, kka fdLk dkj .k gkRkh gS

1/2 Tkm OkkEkURkk 1/2 ?kRkk 1/2 fEkDLkhfMek A

What are the causes of following deformaties in human body;

(a) Cretinism (b) Goitre (c) Myxiedema.

Ikz Uk 8- fTkCkSYkuk ds dkbZ Rkhuk IkEkq[k mlk, kRk fYkf[k, \

Write any three main function of Gibberline.

Ikz Uk 9- fMDLkuk , Oka TkkYkh ds fLk) kRk ds vk/kkj Ikj jLkkjkg.k dh fØ, kk fOkf/k; ka dks LkEkÖkkb, ks

Explain the ascent of sap on the basis of Dixon & Jolly principle.

Ikz Uk 10- LORkæk vIk, kgOk ds fuk, kEk dks Pkdj Ckk&Z ds }kj k LI"V dhfTk, \

Explain the law of independent assortment with the help of checker board.

Ikz Uk 11- ROkPk ds dkbZ Pkkj dk, kz fYkf[k, A

Write any four main functions of skin (integumentary system)

1/2 fOkk1/2

dckYk Rkæk ds dkbZ Pkkj IkEkq[k dk, kz fYkf[k, \

Write any four main functions of Skeletal system.

Ikz Uk 12- Tkhuk fOkfUkEk, k ds dkbZ Pkkj EkGRk fYkf[k, \

Write any four importance of crossing over.

1/2 fOkk1/2

EkkUOk Eka fYkæk fuk/kkj .k fdLk Ikdkj gkRkk gS

How sex determination takes place in man.

Ikz Uk 13- LkCTkh lknkUk djUks OkkYks dkbZ Pkkj i kni ka ds LkkEkkU₃k , Oka Ok\$KkfUkd UkkEk fYkf[k, \

Write the common and botanical name of any four vegetable yielding plants.

½/FkOkk½

'kgn] j's'kEk] EkØRkk] Ykk[k lknkUk djUks OkkYks TkBkq/ka ds LkkEkkU₃k , Oka Ok\$KkfUkd UkkEk fYkf[k, \

Write the common and scientific name of animals, which give Honey, silk, pearl and lac.

Ikz Uk 14- EkkUOk OkDd ds YkâkOkRk~dkV dk UkkEkkâdRk fPk«k CkUkkb₃ks

Draw labelled diagram of L.S. of Human Kidney.

½/FkOkk½

EkkUOk ân₃k ds YkâkOkRk~dkV dk UkkEkkâdRk fPk«k CkUkkb₃ks

Draw labelled diagram of L.S. of Human Heart.

Ikz Uk 15- dâædh₃k vEYk dk dsk Lkk lkdj lkk₃k%vUkqkâ' kd lknkFkZ dgYkkRkk g\$ bLk vEYk dh LkâPkUkk LIk"V dhfTk, A

Which form of nucleic acid is called genetic material? Explain the struc-

ture of this material.

½/FkOkk½

What is called genetic code? Write its any four characteristics.

Ikz Uk 16-

What is called genetic code? Write its any four characteristics.

- 1- Fkk,kjkbM XkFk
- 2- , fMUKYk XkFk A

Where the following endocrine glands are found? Write name of hormone secreted by these glands, and the effects of hyposecretion of these glands.

- (i) Thyroid gland
- (ii) Adrenal gland

½/FkOkk½

Where the thyorid and adrenal glands arefound in human body and what is their secretion. Write its name and the effects of their hypersecretion.

Ikz Uk 17-

What is called ageing? Write any four extraceular changes caused by aging.

½/FkOkk½

What in collagen theory of ageing? Write any four characteristic of age-

ing?

Ikz Uk 18- , d Ok.kkZ/k Ikq "k RkFkk Okkgd L<kh }kjk mRIKUUK LkRkkUKka dh Ok.kkZ/kRkk dh Oká kkXkFRkdh dS.kh gkXkha j[s[kkFPk<<k }kjk LkEKÖkkb,kA

What will be hereditary of the family where a colour blind man got married with a carrier woman. Explain with ray diagram.

½/FkOkk½

, d ghEkkQhfYkd Ikq "k RkFkk LkkEkkU,k L<kh }kjk mRIKUUK LkRkkUKka dh Oká kkXkFRkdh dS.kh gkXkha j[s[kkFPk<<k }kjk LkEKÖkkb,kA

When a haemophilic man marry a general woman then what will their family hereditary. Explain with ray diagram.

Ikz Uk 19- UKkEkkfdRk fPk<<k CkUkkdj IkzkkXk }kjk fLk) dhfTk, fd iZdk'k Lká YkSk.k Eka vkDLkhTkUk XkS.k fUkdYkRkh gA

Prove with the help of experiment and labelled diagram that oxygen gas is evolved during photosynthesis.

½/FkOkk½

UKkEkkfdRk fPk<<k CkUkkdj IkzkkXk }kjk fLk) dhfTk, fd IkZdk'k Lká YkSk.k dh fØ,kk Eka dkCkZk MkbvkDLkkbM dh vkOk' ,kdRkk IkMRkh gS.

Prove with the help of experiment and labelled diagram that carbon dioxide is essential for photosynthesis.

Ixiy mRRkj Lk&I h

- mRRkj 1-1/2 Lkgh fkdYlk& 1\$1\$1\$1\$1 3/4 5
- 1- Lk
 - 2- v
 - 3- Lk
 - 4- Ck
 - 5- n
- 1/2 fjDRk LFkkuk dh IkfRkZ dhfTk, 1\$1\$1\$1\$1 3/4 5
- 1/1 1/2 ,kj kØkEk
- 1/2 1/2 CkhTk
- 1/3 1/2 EkqMd
- 1/4 1/2 vkDLkhTkuk
- 1/5 1/2 , lkkk,kk,kuk.khA
- mÜkj 2- bLkEka mnEckjd (Hypanthndium) lkdkj dk IkfIkØEk lkk,kk TkkRkk gA
- mÜkj 3- Pkukk & bl dk chti = (Cotyledons) – nkYk ds : lk Eka mlk,kkxkh gA
 LkIkxkakk & IkfÜk,kka dk jLk vkqk ds fYk,
 TkM+& QhVek Ckkgj fudkyusea , oadfe uk'kd
 EkkukfLkd jkkk Ekj mlk,kkxkh PkEkj kkk Eka
- mÜkj 4- D,kkd jDRk Okfghfuk,kka ds }kjk jDRk >Vds ds LkFk Ckgrkk gS fTkLkLk , d nkc
 mRkUk gks TkkRkk gS Tkks fd LkkEkkU,k IkfjLkPkj.k Lks vf/kd gk&kk gA
- mÜkj 5 ,ks ,d lkdkj ds LkqEk Tkhok gS Tkks HkqEk dh mÜkj k 'kfDRk dks Ck<kRks gA , Oka
 UkbbVkskuk fLFkjhdj.k dk dk,kz djRks gA tñ mojd dgYkkRks gA
- mÜkj 6- 'kdk (Rod) – Eka lkdk'k ds IkfRk Lkknh gk&kh gA bukEka jk&lkfllku o.kd
 (pigment) tks vit A CkukRkk gA ,kg Lk&kkREkd Ukgha djRkk gA
 'ykd (Cone) & bLkEka vk,kk&lkfll u pigment lkk,kk TkkRkk gS ,kg jkk dh
 vUk&kkRk djRkk gA

mùkj 7	1-	Fkk,kj kFDI u dh dEkh Lks	1\$1\$1 ¾ 3
	2-	I ₂ dh dEkh Lks	
	3-	Fkk,kj kFDLkUk dh dEkh Lks A	
mùkj 8	¼½	Ikkšks dh Ykàkkbz Eka Okf)	1\$1\$1 ¾ 3
	½½	fcuk fuk"kkkuk ds CkhTk jfgRk QYk CkUkkuk A	
	¾½	i d qrk voLFkk (dormancey period) dks dEk dj TkYnh vødj .k kk vU,k LkEkdfk mùkj	
mùkj 9	¼½	IkkUkh Lks LkàkTkUk dj mRlUkUk gkškk	1\$1\$1 ¾ 3
	½½	IkkUkh dh YkXkkRkkj i Økg (continuouty flow) CkUkk,ks j [kUkk A	
	¾½	IkkUkh dh Rkkj RkE,kRkk dks CkUkk,ks j [kUks ds fyk, ok"i kRl tU transportion pull i šk djuka mlkj kØRk RkhUka 'kh"kdka dks LIk"V ½ vad \$ 1½	
mùkj 10-		Pkdj CkkMz CkUkkuk	2\$1 ¾ 3
		9%Ø%Ø dk ratio IkkIRk djuka	
mùkj 11-		RkPkk ds Pkkj dkbz Pkkj dk,kz fyk [kUks Ikj Ikk,kd Eka 1×4 vad vFkkk	4 vad
		dakYk Rkæk ds dkbz Pkkj dk,kz fyk [kUks Ikj Ikk,kd Eka 1×4 vad	4 vad
mRRkj 12-		Tkhok fokfUkE,k ds dkbz Pkkj EkgRk fyk [kUks Ikj Ikk,kd Eka 1×4 vad vFkkk	4 vad
		IkkØ,kk dk Ok.kØk djUks Ikj	4 vad
mRRkj 13-		dkbz Pkkj IknIkka ds LkkEkkU,k UkkEk Ikj Ikk,kd Eka ½ vad RkFkk OkULIkFRkd UkkEk Ikj ½+½ = 1×3 vad vFkkk	
		'kgn] jš kEk] EkØRkk] Ykk [k nšks OkkYks TkBkq dk UkkEk OkškfUkd UkkEk I hi LkkEkkU,k UkkEk fyk [kUks Ikj ½ vad , Oka OkškfUkd UkkEk fyk [kUks Ikj ½+½ = 1×4 ¾ 4 vad	
mRRkj 14		EkkUk OkDd YkàkØRk dkV dk fPkæk CkUkkUks Ikj	2 vad

- dEk Lks dEk Pkkj UkkEkkadUk djUks Ikj 2 vød dŷk 4 vød
vFkOkk
- EkkUkOk ân,k ds LOkPN fPk«k CkUkkUks Ikj 2 vød
, Oka dEk Lks dEk Pkkj UkkEkkadUk Ikj 2 vød 4 vød
- mRRkj 15- DNA dk Ikkj UkkEk fYk[kUks Ikj & 1 vød
DNA dh LkjPkUkk fYk[kUks Ikj & 4 vød dŷk 5 vød A
vFkOkk
- vUkkk' kd dkm dh IkfjHkk"kk fYk[kUks Ikj &1 vød
Pkkj Ikr,ksd dkbz fOk' kSkRkkvka Ikj 1&1 vød $\frac{3}{4}$ 4 dŷk 5 vød
- mRRkj 16 gkjEkkSk ds LFkkUk CkRkkUks Ikj gkjEkkSk dk UkkEk fYk[kUks , Oka IkdKj fYk[kUks Ikj Ikr,ksd
XkFk Ikj $1\frac{1}{2}+1\frac{1}{2} + 2\frac{3}{4}$ vød
vFkOkk
- gkEkkSk ds LFkkUk CkRkkUks Ikj , Oka gkEkkSk ds UkkEk fYk[kUks Ikj vFRkL«kkOk 'kjHj Ikj
IkdKj fYk[kUks Ikj Ikr,ksd XkFk Ikj $1\frac{1}{2}+1\frac{1}{2} + 2\frac{3}{4}$ vød
- mRRkj 17- Ok,kRkk dh IkfjHkk"kk fYk[kUks Ikj 1 vød , Oka dkbz Pkkj mlk,kPRk IkfjOkRkUk fYk[kUks Ikj
4 vød dŷk& 5 vød A
vFkOkk
- dkYkhTkuOkkn fYk[kUks Ikj 1 vød
Ok,kRkk ds dkbz Pkkj Yk{k.k fYk[kUks Ikj 4 vød dŷk &5 vød
- mRRkj 18 js[kkfPk«k CkUkkUks Ikj 3 vød
Ok,kUk Ikj 3 vød dŷk& 6 vødA
vFkOkk
- mRRkj 19 js[kkfPk«k CkUkkUks Ikj 03 vød
Ok,kUk djUks Ikj 03 vød dŷk 06 vød
vFkOkk
- UkkEkkfDRk fPk«k &02 vød
Ok,kUk djUks Ikj &04 vød dŷk 06 vødA