Cacti Honour Booklet



Name:	
Church:	
Club:	
Class	
Due Date:	

In order to successfully complete this honour, you must:

....

- Satisfactorily complete this Booklet. The pass mark is 75%. The number of marks allocated for each question is given in [] – maximum 52 marks; and
- 2. Pass the Cacti Honour Exam. The pass mark is 60%.

Booklet Score				
Exam Score				
Honour Granted	Yes		No	
Authorized Signature				

1.	What	are Ca	cti?	[1]						
	Cacti	could	be	cons	idered	the	best	known	famil	y of
						- p	olants	that s	tore I	arge
	quanti	ties of	wate	er in t	their le	aves	, sten	ns, or ro	ots, g	iving
	them a	a fleshy	/ cha	aracte	r					
2.	Chief	charac	cteri	stics	of a ca	actus	s: [11]			
2.1	Cush	nion-lik	e st	tructu	res on	the	stem	ofa	cactus	are
	calle	d				·	Sp	ines, flo	owers	and
	bran	ches s	prou	ut fror	n thes	e stri	ucture	s. The	struct	ures
	are	not in	tegra	ated i	into th	e ste	em, th	nerefore	if on	ie is
	deta	ched, 1	the s	stem i	s not o	dama	iged a	and wate	er insid	de is
	pres	erved.								
2.2					are	prob	oably	the m	ost e	asily
	iden	tifiable	fea	ature	of c	acti,	and	vary	greatly	/ in
	appe	earance	e, sl	hape,	size	and	coloui	r. The	y help	the
	cact	us in se	ever	al way	/s:					
	a.						_ agai	nst fora	gers	
	b.									for
		some	vari	eties						
	C.	Lowe	ring	the	stem	tem	perati	ure by	refle	cting
					aw	ay fr	om th	e stem		
	d.	Preve	ent	loss	of					via
		evapo	orativ	ve co	oling b	y tra	pping	a layer	of air	next
		to the	cac	tus st	em.					

2.3	Cactus usually have an indefinite
	number of sepals, petals and numerous stamens; hence
	they are typically quite spectacular and very complex.
2.4	Most cacti carry out photosynthesis inside the stem
	instead of inside Most cacti do
	not have leaves, and on some of the few that do, they
	are tiny. A plant with many leaves presents a large
	surface area capable of losing water vapour, and in the
	desert, a leafy plant would quickly exhaust its water
	reserves. Photosynthesis inside the stem preserves the
	water stores for cacti, but limits photosynthesis
	efficiency and results in slow growth.
2.5	All cacti are to the
	Americas (North America, Central America & the
	Caribbean and South America). The only exception is
	the Rhipsalis Baccifera, which is native to the Americas
	and the Old World (Africa, Asia and Europe).
2.6	The cactus is a one-celled
	berry, smooth or spiny, with seeds scattered throughout.
2.7	Cacti are plants - they live
	for at least two years.
2.8	Cacti are <u>caulocarpic</u> – they do not die after flowering.

3.	Some Uses of Cacti [5]
3.1	– e.g. potted plants,
	houseplants, ornamental gardens.
3.2	– fences
3.3	e.g. species
	such as the prickly pear which produces dragon fruit or nopal which is popular in Mexico.
3.4	– some skeletons of dead cacti are used for making wood.
3.5	some
	species contain mescaline, a hallucinogenic drug capable of inducing visions.
3.6	Host for bugs – Plant used as a host for the female cochineal insect. A crimson dye is processed from the body of this insect.
4.	Cacti Environment [10]
4.1	Although the largest number and variety of cacti may grow in, they also grow in, and
	habitats.

4.2 They thrive in low-lying and warm _____ and _____, in the full blaze of the _____, or they inhabit rocky and arid slopes of high _____ systems, where extremes of sullen heat and bitter cold are common.

4.3 Certain species are covered with ______ in winter whilst others live on the _____ trunks of trees in tropical or sub-tropical forests or on ledges of rocks in deep ravines where they receive ample shade, warmth and a moist soil rich in humus.

Write the correct name for each cactus shown on the line below. [15]











Native to Jamaica





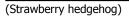


Skeleton of dead plants used for making furniture.











(Barrel cactus)



(San Pedro Cactus)





(Desert Christmas Cactus)

(Queen of the Night)

6. Photograph, sketch or include pictures of at least 10 species of cacti (do not repeat any of the cacti above) and classify them or grow at least 3 different species of cacti.

CACTI HONOUR REQUIREMENTS

Level 1 Year 1944 General Conference

- 1. Name the chief characteristics of a cactus.
- 2. Name three uses of cacti.
- 3. In what places are cacti the most plentiful? Why?
- 4. Know and identify from life or pictures 15 species of cacti.
- 5. Photograph, observe or sketch at least 10 species of cacti and classify them or grow at least 3 different species of cacti.