

# Assignment for SSC Examinees, 2021

Subject: Biology

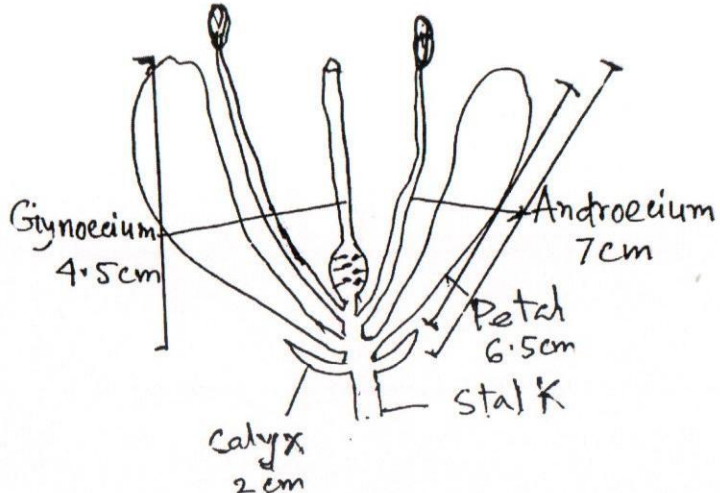
Subject Code: 138

Level: SSC

Assignment Number, Chapter Number, Chapter Title	Assignment	Learning Outcomes	Guidelines (cues/steps/extent)	Assessment Criterion /Rubric	Com'ts																																														
<b>05</b> <b>Chapter Eleven:</b> Reproduction I in Organism	Practical  Labelling of different whorls of a flower and analyzing its relation to pollinating agents	Learners will be able to  -explain the concept and significance of reproduction in the organism;  -describe the function of a flower as a reproductive organ.	a. Firstly, read pages no 233-239 of the Biology textbook b. One or more samples of available same species flower is to be collected. c. Flower is to be dissected. That's why a blade or scissors will be required. Scale or ruler will be needed to measure the length d. Precaution: Be careful while using sharp tools. The job should be carried out under the supervision of an elderly family member. e. Student will draw the figure of his collected flower like the figure of flower on page no.235 of the Biology textbook. All whorls to be labelled there. Side by side a scale should be drawn by which real measurement of different whorls of flower could be determined. (For example, the assignment table on the next page is referred) f. According to the assignment table, six characteristics of a flower need to be mentioned. g. According to the mentioned characteristics, the best possible way of pollination to be cited in the required box of the assignment table h. Identified pollinating agents will be mentioned with proper explanation. Word limit 70-100.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 10%;">Indicator</th> <th colspan="4" style="text-align: center;">Rating scale</th> <th rowspan="2" style="width: 10%;">Score</th> </tr> <tr> <th style="width: 10%;">4</th> <th style="width: 10%;">3</th> <th style="width: 10%;">2</th> <th style="width: 10%;">1</th> </tr> </thead> <tbody> <tr> <td>a) Labelling of figure</td> <td>Labelling of all whorls done acceptably.</td> <td>Labelling of one whorl isn't done acceptably, rest are done properly.</td> <td>Labelling of two whorls are not done acceptably, rest are done properly.</td> <td>Labelling of only one whorl is done acceptably.</td> <td></td> </tr> <tr> <td>b) Scaling of figure</td> <td>Scaling of all whorls done acceptably.</td> <td>Scaling of one whorl isn't done acceptably, the rest are done properly.</td> <td>Scaling of two whorls are not done acceptably, the rest are done properly.</td> <td>Scaling of one whorl is done acceptably.</td> <td></td> </tr> <tr> <td>c) Characteristics of flower</td> <td>Characteristics of all 6 whorls cited acceptably.</td> <td>Characteristics of 4-5 out of 6 whorls cited acceptably.</td> <td>Characteristics of 2-3 out of 6 whorls cited acceptably.</td> <td>Characteristics of only one out of 6 whorls cited acceptably.</td> <td></td> </tr> <tr> <td>d) Pollinating agent (with explanation)</td> <td>Possible pollinating agent mentioned with explanation acceptably.</td> <td>Possible pollinating agent mentioned acceptably, but the explanation is partially acceptable.</td> <td>Possible pollinating agent mentioned acceptably but the explanation is not acceptable at all.</td> <td>Possible pollinating agents are mentioned with an explanation but neither is acceptable.</td> <td></td> </tr> <tr> <td colspan="5" style="text-align: right;"><b>Total-</b></td> <td></td> </tr> <tr> <td colspan="6" style="text-align: center;"><b>Total marks for this assignment:16</b></td> </tr> </tbody> </table>	Indicator	Rating scale				Score	4	3	2	1	a) Labelling of figure	Labelling of all whorls done acceptably.	Labelling of one whorl isn't done acceptably, rest are done properly.	Labelling of two whorls are not done acceptably, rest are done properly.	Labelling of only one whorl is done acceptably.		b) Scaling of figure	Scaling of all whorls done acceptably.	Scaling of one whorl isn't done acceptably, the rest are done properly.	Scaling of two whorls are not done acceptably, the rest are done properly.	Scaling of one whorl is done acceptably.		c) Characteristics of flower	Characteristics of all 6 whorls cited acceptably.	Characteristics of 4-5 out of 6 whorls cited acceptably.	Characteristics of 2-3 out of 6 whorls cited acceptably.	Characteristics of only one out of 6 whorls cited acceptably.		d) Pollinating agent (with explanation)	Possible pollinating agent mentioned with explanation acceptably.	Possible pollinating agent mentioned acceptably, but the explanation is partially acceptable.	Possible pollinating agent mentioned acceptably but the explanation is not acceptable at all.	Possible pollinating agents are mentioned with an explanation but neither is acceptable.		<b>Total-</b>						<b>Total marks for this assignment:16</b>						
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Marks Obtained	Comment
13-16	Excellent
11-12	Very good
8-10	Good
0-7	Needs improvement

**Assignment table (Figure given below is an example which may not match with student's drawing exactly but may be used as a guideline):**

Dissected labelled diagram containing the scale of collected flower	Different characteristics of a flower		Pollinating agent and explanation
 <p data-bbox="235 973 974 1045">Figure: Different whorls labelling and size determination of dissected flower</p>	Colour	After selecting two alternatives, write down only that two names: Bright/Dull/light/Red/Yellow/Orange/Pink/White/Purple/Blue/Brown/Any other colour	<p data-bbox="1926 319 2128 622">Pollinating agent: (After selecting one alternative from those given below, write down only that name )</p> <p data-bbox="1926 662 2128 845">Bird/ Bat / Butterfly / Moth / Honey bee / Fruit fly / Air / Water</p>
	Fragrance	After selecting one or two alternatives, write down only that one or two names: No/Mild / pungent/ Sweet /Acrid / Perfumed / Damp	
	Shape	After selecting two alternatives, write down only that two names: Large/ Small/Wide/ Shallow/ Deep/ Tubular/ Cup shaped/Without petal	
	Blooming time	After selecting one or two alternatives, write down only that one or two names: Day / Morning/ Noon/ Evening / Night/ Uncertain	
	Relative position of whorls	After selecting one or two alternatives, write down only that one or two names: Suspended flower / Androecium or anther exposed a lot from corolla/ Almost erect flower / Almost parallel to the soil / Flower located on the edge of a branch in plant /Have landing platform(seat of pollinating animal)	
	Nectar*	After selecting one or two alternatives, write down only the one or two characteristics: More amount / Less amount / Absent / Pollen mixed/Sticky/Dilute	
	*It is that juice of flower that pollinating animals like, sometimes it is called the honey of the flower.		