

DEPARTMENT OF EDUCATION
CENTRAL TIBETAN ADMINISTRATION, DHARAMSHALA
ENTRANCE EXAMINATION-2011.

BOTANY

Time : 1 hours

Max. Marks 50.

INSTRUCTIONS:

There are fifty questions in this paper. All the questions are of Multiple Choice type and carry equal marks. Each question is followed by four responses marked (a), (b), (c) and (d). Select the one, which is the best in each case and record it clearly against the question number on the answer sheets provided with the paper.

More than one response indicated against an item or overwriting in the answer sheet would deem as incorrect response and no mark will be granted on that.

Question paper along with the answer sheet of the paper should be returned to the invigilator after the completion of the paper or when the time is over whichever is earlier.

Roll No. _____

Marks obtained by the candidate: _____

Signature of Examiner

BOTANY-2011

- Q.18. Axillary bud and terminal bud are derived from the activity of
(a) Lateral meristem (b) Apical meristem
(c) Intercalary meristem (d) Secondary meristem

Q.19. The vascular bundles in dicot stem are
(a) Numerous scattered (b) Arranged in a ring
(c) Without cambium (d) Surrounded by bundle sheath

Q.20. Which one of the following is a living mechanical tissue?
(a) Phloem (b) Parenchyma
(c) Collenchyma (d) Sclerenchyma

Q.21. Flagella of prokaryotic and eukaryotic cells differ in
(a) Location in cell and mode of functioning
(b) Microtubular organization and type of movement
(c) Microtubular organization and functioning
(d) Type of movement and placement in cell

Q.22. A plant cell has a potential to develop into a full plant. This property of plant cell is called
(a) Tissue culture (b) Pluripotency
(c) Totipotency (d) Gene cloning

Q.23. Agar agar is obtained from
(a) Gelidium (b) Ulothrix
(c) Spirogyra (d) Chlorella

Q.24. Which of the following is hydrogen acceptor?
(a) $Co \sim A$ (b) NAD^+
(c) ATP (d) DNA

Q.25. Opening and closing of stomata is due to
(a) Hormonal change in guard cells
(b) Change in turgor pressure in guard cells
(c) Hormonal change in subsidiary cells
(d) Gaseous exchange

Q.49. The bacteria *pseudomonas* is useful because of its ability to

- (a) Transfer genes from one plant to another
 - (b) Decompose a variety of organic compounds
 - (c) Fix atmospheric nitrogen in the soil
 - (d) Produce a wide variety of antibiotics

Q.50. Five kingdom system of Whittaker is mainly based on

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|-----------------------|--------------------------|
| (a) Nucleus | (b) Cell structure |
| (c) Mode of nutrition | (d) Complexity of organs |



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ANSWER SHEET FOR BOTANY				Roll No. _____				
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Q.No.	Ans.								
1		2		3		4		5	
6		7		8		9		10	
11		12		13		14		15	
16		17		18		19		20	
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26		27		28		29		30	
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36		37		38		39		40	
41		42		43		44		45	
46		47		48		49		50	