

(iii) Commission for Scientific & Technical Terminology (CS TT) under the Ministry of Human Resource Development, is engaged in the following activities:—

(a) Standardisation of technical terminology in Hindi.

(b) Preparation of definitional dictionary in Hindi.

(c) Organisation of terminological workshop in Hindi.

(iv) Special technology products such as GIST (Graphics & Intelligence based System Technology) and Character ROMs (Read only Memories) have already been developed to generate characters in several Indian Languages.

(e) With increase in the use of Hindi in computer applications in different fields by various organisations etc., the job prospects for pass-outs of DCA in Hindi Medium are bright.

Software packages of UNIX Operating systems

3022. SHRI ANANTRAY DEVSHANKER DAVE: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that software packages around UNIX operating system are much more expensive than similar ones around MS-DOS, and the licence fee drains out as foreign exchange;

(b) if so, the details thereof;

(c) what is the economic justification for introducing UNIX based software when usage of DOS software has not matured in Government offices and the computer utilization factor is very low;

(d) what are the details of utilization factor, number of PCs in Government offices, the prices of hardware and software; and

(e) what percentage of the PCs in Government Departments having facilities for bi-lingual processing with MS-DOS and with UNIX operating systems?

THE MINISTER OF STATE IN THE MINISTRY OF PLANNING AND THE MINISTER OF STATE IN THE MINISTRY OF PROGRAMME IMPLEMENTATION (SHRI BHAGEY GOBARDHAN): (a) No, Sir. The UNIX Operating System is basically for multiple Users, whereas MS-DOS is for a single user. The two systems are not comparable. However, on the basis of the cost per terminal, UNIX Operating System together with associated system software is cheaper than those based on MS-DOS.

(b) Does not arise.

(c) The economic justification for using UNIX based software is in multi-user situations or as part of a large network or is for getting the best out of 32 bit super micro and super mini computers.

(d) and (e) Information is being compiled.

Periodic Research Journal in Electronics in Hindi

3023. SHRI ANANTRAY DEVSHANKER DAVE: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that some professional societies have approached the Department of Electronic for grants to bring out a period research journal in Electronics in Hindi;

(b) if so, details thereof;

(c) what steps have been taken during last five years to increase the readership of technical articles in Hindi in Electronics, Bio.technology, non-conventional energy sources, space and atomic energy; and

(d) what is the projected distribution of readers of technical articles in Hindi in Government Departments, industry and educational institutions?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY (PROF. M. G. K. MENON): (a) to (d) The information is being collected and will be laid on the Table of the House.

Imperting of environmental education

3024. SHRI ANANTRAY DEVSHANKER DAVE: Will the PRIME MINISTER be pleased to state:

(a) whether Government propose to adopt an integrated approach so as to impart environmental education bringing in its purview zoological parks, botanical garden and children games;

(b) if so, what are the details thereof;

(c) which centres have been identified so far for the purpose; and

(d) whether Government propose to introduce traditional Indian names of plants and their medicinal importance in children books and T.V. programmes in view of the fact that the modern names of the plants are very difficult to grasp?

THE MINISTER OF STATE IN THE MINISTRY OF HUMAN RESOURCE DEVELOPMENT (SHRI CHIMANBHAI MEHTA): (a) to (c) No such proposal for bringing identified zoological parks, botanical garden and children games within the purview of environmental education is under consideration. However, contents designed to impart environmental education are included in the text books on Environmental Studies for Classes III to V and the text books for science subjects for Classes VI to XII. These also contain information

on zoological parks, botanical gardens and environment related children's activities, wherever necessary. It is also suggested in the curriculum that, wherever possible, teachers may take children to National parks and zoological and botanical gardens.

(d) the common vernacular names including traditional names are used at primary and upper primary levels; while at secondary and senior secondary level both traditional and scientific names are used.

Study to ascertain conditions of scientists

3025. SHRI SIKANDER BAKHT: Will the PRIME MINISTER be pleased to state:

(a) whether any study has been made to ascertain the reasons for growing frustration among scientists in technical department; if so, the details thereof;

(b) what efforts have been made for making a Science and Technology cadre so as to ensure fearless contribution of scientists in various technical departments;

(c) whether it is a fact that scientists take much longer time to reach the level of Joint Secretary as compared to personnel in organised services; and

(d) if so, what corrective measures are being taken to eliminate anomalies in promotion prospects of scientists vis-a-vis personnel of organised services?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY (PROF. M. G. K. MENON): (a) to (d) Scientists individually and in groups do bring to the notice of the Government, their perception of the problems and difficulties they face. Government has mechanisms to review all such issues on a continuing basis and take corrective measures, as and when required.