

MANAGEMENT PROGRAMME

Term-End Examination

June, 2014

**MS-58 : MANAGEMENT OF R&D AND
INNOVATION**

Time : 3 hours

Maximum Marks : 100

(Weightage : 70%)

*Note : (i) Answer **any four** questions.*

*(ii) All questions carry **equal** marks.*

1. (a) What is the interaction between science, technology and business ? How do these interactions affect industrial growth ? Discuss with suitable examples.
(b) Distinguish with example between :
 - (i) Basic Research
 - (ii) Applied Research and
 - (iii) Experimental Development
2. (a) Define Invention, Innovation and Design. Explain how they are interrelated.
(b) Explain the following techniques of enhancing and maintaining the creativity :
 - (i) Brainstorming
 - (ii) Synectics
3. (a) "Corporate function of R&D is a managerial rather than technical function". Discuss and identify the content of this function.
(b) Discuss the various approaches used for R&D budgeting in an organisation.

4. (a) Discuss the various types of partnerships for innovation and R&D.
(b) Discuss the various causes of failure of R&D projects. What can the management do to prevent such failures ?

 5. (a) Classify and briefly describe India's R&D infrastructure into appropriate categories.
(b) What resources are required for R&D activity ? Write a critical note on the availability of relevant resources for R&D in India.

 6. (a) How is commercialisation done in large private sector business houses in developed nations ?
(b) What are the emerging issues which should be taken into account in conceptualising and implementing R&D projects ?
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