MANAGEMENT PROGRAMME
Term-End Examination
June, 2021

MS-058 : MANAGEMENT OF R & D AND INNOVATION

Time : 3 hours   *Maximum Marks : 100*

(Weightage : 70%)

Note : *Attempt any* ***four*** *questions. All questions carry equal marks.*

1. (a) Evaluate the possible negative impacts on society of technological developments, particularly on health and environment.

(b) "Development is closely related to design." Explain. In what way has the development process been changing ?

2. (a) "Corporate function of R & D is a managerial rather than technical function." Discuss and identify the contents of this function.

(b) What are the basic requirements for successful partnering in innovation and R & D ? Do you visualise difficulties cropping up in such processes ? How would such difficulties be overcome ?

3. (a) What is the genesis of team concept ? How do individuals connect themselves into a team ?

(b) Explain the concept of project lifecycle, with examples relating to a specific technology or product.

4. (a) What is meant by the "potential" value of an invention or discovery and why is it important ? Why are quantitative methods inadequate for measuring R & D outputs ?

(b) Discuss the salient features of the incentives and support measures provided by the following countries for promotion of R & D and technology development.
   (i) Japan
   (ii) Korea
   (iii) U.K.
   (iv) U.S.A.

5. (a) What are the differences in commercialisation approach between developed and developing nations ? How do developed nations score over developing nations in R & D business ?

(b) What is meant by R & D funding in an organisation ? Discuss the various considerations to be kept in view while allocating funds for R & D in an organisation.

6. (a) What do you mean by the term Patent ? What is the procedure for patenting in India ? What kind of inventions are not patentable ?

(b) How can engineering and technical consultants facilitate the process of R & D and innovation ? Is the cost of consultancy in a firm justified in terms of expected returns ?

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