

M.TECH IT (COURSEWARE ENGINEERING) FIRST YEAR SECOND SEMESTER EXAMINATION, 2024**Subject : Educational Management And Quality Assurance**

Time : Three hours

Full Marks : 100

Answer **any five** questions.

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| 1 | (a) What is the quality definition according to Joseph Juran? Discuss about the steps of Quality improvement as proposed by Juran.
(b) Discuss about the Philip B. Crosby's two popular statements regarding Quality and absolutes of Quality management. | (2+10)+8 |
| 2 | (a) Show pictorially the Intview, a courseware development lifecycle model and detail the name of each phase and main activities. | 20 |
| 3 | (a) Discuss about the role of Higher education in the society?
(b) Show the 'Concept Map' in terms of quality assurance in higher education and discuss about the four predominant concepts of higher education. | 8+12 |
| 4 | (a) Describe about a model depicting Educational change as sequential and Transformational.
(b) The bandwidth of a speech signal is from 20Hz to20KHz and that of a music signal is from 40Hz to 20KHz. (i) Derive the bit rate that is generated by the digitization procedure for music and speech signal respectively assuming the Nyquist sampling rate is used with 10 bits per sample for the speech signal and 12 bits per sample for the music signal. (ii) Calculate the memory required to store a 15 minute passage of stereophonic music. | 10+10 |
| 5 | (a) What do you mean by 'Blended mode' in terms of multimodal Digital Distance education?
(b) Describe the philosophy, components and merits of multimodal Digital Distance education (Blended mode) over normal on-line education? | 5+15 |
| 6 | (a) What are the major phases of a systematic Design plan for management of Distance education? Briefly describe.
(b) Discuss about the three major approaches towards development of independent and self-reliant distance learners? | 10+10 |
| 7 | (a) Describe about the Quality Guidelines for Technology assisted distance education.
(b) What are the four basic functions of a distance educational institution? Describe briefly. | 12+8 |
| 8 | Write short notes on (<u>any four</u>) :
(i). Ten 'C's for evaluation of Internet resources.
(ii). Dimensions of Quality in Higher Education..
(iii). Cable modem.
(iv). Choice of Technology in evolution of Distance education.
(v). Content Aggregation model (CAM).
(vi). Mesh Networks. | 5X4=20 |