

BOARD OF TECHNICAL EDUCATION, RAJASTHAN, JODHPUR
RULES AND REGULATION
FOR DIPLOMA COURSES IN ENGINEERING AND NON ENGINEERING
SEMESTER SCHEME 2020-21
FOR THE SESSION 2020-2021 AND ONWARDS

Guidelines for Conduction of Examination and Evaluation Scheme

Examination of all subjects whether theory or practical will have two components

- (i) End Term (Semester) Examination
- (ii) Internal Assessment

The distribution of 100 Marks for End Term Examination and Internal Assessment will be as given in Table 1:

Table 1

| S.No. | Type of Paper | Marks for End Semester Examination | Marks for Internal Assessment | Maximum Total Marks |
|-------|-----------------|------------------------------------|-------------------------------|---------------------|
| 1. | Theory Paper | 60 | 40 | 100 |
| 2. | Practical Paper | 40 | 60 | 100 |

Details of End Semester Examination (Theory Paper) are given in Table 2:

Table 2

| S.No. | Component Name in the Question Paper | Number of Questions | Marks |
|-----------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------|
| 1. | Type A (Very Short answer questions) (1 Line/ 10 Words Answer) | 10 Questions (Students have to attempt all 10 questions) | 10 Marks (one mark for each question) |
| 2. | Type B (Short answer of maximum 5 lines/ 50 words) | 12 Questions, (Students have to attempt any 8 questions) | 20 Marks (2.5 marks for each question) |
| 3. | Type C (Descriptive type, may have numerical also 15 lines/150 words) | 5 Questions (Students have to attempt any 3 questions) | 30 Marks (10 marks for each question) |
| Maximum Marks in End Semester Examination (A) | | | 60 |
| Total Duration of Examination | | | 3 Hours |

Details of the Internal Assessment Marks (Theory paper) are given in Table 3

Table 3

| S. No. | Component Name | Marks | |
|--------|----------------------|-----------------------|--------------------------|
| | | Subject with Tutorial | Subject without Tutorial |
| 1. | I Mid Semester Exam | 10 | 20 |
| 2. | II Mid Semester Exam | 10 | 20 |

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| | | | |
|------------------------------------------|-----------------------|----|----|
| 3. | Assignments/Tutorials | 20 | 0 |
| Maximum Marks in Internal Assessment (B) | | 40 | 40 |

Maximum Total Marks in a subject = Maximum marks of End Semester Examination (A) + Maximum marks of Internal Assessment (B) (60 + 40) = 100

Procedure to Award Grade in each Subject:

After the completion of End Semester Examination, the total marks obtained in each theory and practical paper separately (i.e. sum of marks obtained by student in End Semester Examination and Internal Assessment in theory and practical separately) by the student out of the maximum total marks in a subject will be used for awarding the grade in each subject (Separately for Theory and Practical). These marks will be called as the absolute total marks of the candidate in a subject. Absolute Total Marks (ATM) will be calculated as follows:

ATM for i^{th} Theory Paper = Marks obtained in End Semester i^{th} Theory Exam + Internal Assessment in i^{th} Theory Paper

ATM for i^{th} Practical Paper = Marks obtained in End Semester i^{th} Practical Exam + Internal Assessment in i^{th} Practical Paper

The steps to be followed for awarding the grade in each subject will be as follows:

Step1: The absolute total marks obtained (ATM_i) in a subject by the student shall be converted into relative marks (RM_i) in that subject on a 100-point scale using the formula given below:

$$RM_i = (ATM_i / P_{\max}) Q$$

Where:

RM_i is the converted relative marks of a student in i^{th} subject rounded off to next higher integer, further if the relative marks thus calculated exceed maximum total marks (100) then for that student the value of RM_i should be taken as 100.

ATM_i is the absolute total marks obtained by the student in i^{th} subject.

P_{\max} to be selected from the Table 4 depending on the value of $AVX_{\max i}$.

Where, $AVX_{\max i}$ is the average of the marks obtained by first N students in descending order of the absolute total marks secured by them in the i^{th} subject starting from the student who has secured highest absolute total marks ($x_{\max i}$) in that subject.

N to be calculated as 1% of the number of students appeared in the subject i, rounded off to next higher integer, but if the value of N thus calculated is less than 3 then N should be taken as 3 and if N thus calculated is more than 10 then it must be taken as 10.

Q to be selected from the Table 5 depending upon the absolute highest total marks obtained by any candidate/candidates in i^{th} subject

Table4

| Range of $AVX_{\max i}$ in i^{th} subject | P_{\max} |
|----------------------------------------------------|------------|
| $AVX_{\max i} \geq 90$ | 90 |

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