School of Aeronautics (Neemrana)

Practical Question Paper For Internal / External Assessment / Back / Re-Back Examination - Credit 1 or 50 marks / Credit 1.5 or 75 marks / Credit 2 or 100 marks / Credit 2.5 or 125 marks / Old Scheme / AME

Guidelines for Practical Examination

1. (Credit-1 / 50 marks)

University Practical Examination of 50 marks, is divided into two parts of assessment i.e. Internal Assessment (30 marks) and External Assessment (20 marks). Internal Assessment (30 marks) are further sub divided into two parts i.e. Project Assessment (10 marks) and Internal Practical Assessment (20 marks). These 20 marks are further divided into three Mid Terms, i.e. Mid Term I (5 marks), Mid Term II (7 marks) and Mid Term III (8 marks). For the sake of convenience in assessment, multiplication factor of 10 is used to design the grading sheets, i.e. of 50, 70 and 80 marks respectively for Mid Term I, II and III.

2. (Credit-1.5 / 75 marks)

University Practical Examination of 75 marks, is divided into two parts of assessment i.e. Internal Assessment (45 marks) and External Assessment (30 marks). Internal Assessment (45 marks) are further sub divided into two parts i.e. Project Assessment (15 marks) and Internal Practical Assessment (30 marks). These 30 marks are further divided into three Mid Terms, i.e. Mid Term I (7.5 marks), Mid Term II (10.5 marks) and Mid Term III (12 marks). For the sake of convenience in assessment, multiplication factor of 10 is used to design the grading sheets, i.e. of 75, 105 and 120 marks respectively for Mid Term I, II and III.

3. (Credit-2 / 100 marks)

University Practical Examination of 100 marks, is divided into two parts of assessment i.e. Internal Assessment (60 marks) and External Assessment (40 marks). Internal Assessment (60 marks) are further sub divided into two parts i.e. Project Assessment (20 marks) and Internal Practical Assessment (40 marks). These 40 marks are further divided into three mid terms, i.e. Mid Term I (10 marks), Mid Term II (14 marks) and Mid Term III (16 marks). For the sake of convenience in assessment, multiplication factor of 10 is used to design the grading sheets, i.e. of 100, 140 and 160 marks respectively for Mid Term I, II and III.

4. (Credit-2.5 / 125 marks)

University Practical Examination of 125 marks, is divided into two parts of assessment i.e. Internal Assessment (75 marks) and External Assessment (50 marks). Internal Assessment (75 marks) are further sub divided into two parts i.e. Project Assessment (25 marks) and Internal Practical Assessment (50 marks). These 50 marks are further divided into three mid terms, i.e. Mid Term I (12.5 marks), Mid Term II (17.5 marks) and Mid Term III (20 marks). For the sake of convenience in assessment, multiplication factor of 10 is used to design the grading sheets, i.e. of 125, 175 and 200 marks respectively for Mid Term I, II and III.

5. AME Fortnightly / Cumulative Fortnightly Practical Examination (30 Marks)

AME Fortnightly / Cumulative Fortnightly Practical Examination will be of 30 marks for each practical examination. Out of these 30 marks, 10 marks are for skill test, 4 marks for procedure writing, 10 marks for viva questions, 3 marks for practical record and 3 marks for log book writing. For practicals without skill marks division will be, 4 marks for procedure writing, 20 marks for viva questions, 3 marks for practical record and 3 marks for log book writing.

6. AME Semester Examination (70 Marks, Sem 1 to 3 for Practicals with skill and Sem 1 to 4 without skill)

AME Semester Practical Examination will be of 70 marks for each practical examination. Out of these 70 marks, 20 marks are for skill test, 10 marks for procedure writing, 9 marks for basic viva questions, 9 marks for advance viva questions, 6 marks for practical record, 6 marks for log book writing and 10 marks for project. For practicals without skill marks division will be, 20 marks for procedure writing, 30 marks for viva questions, 5 marks for practical record, 5 marks for log book writing and 10 marks for project.

7. AME Semester Examination (70 Marks, Sem 4 for Practicals)

AME Semester Practical Examination will be of 70 marks for each practical examination. Out of these 70 marks, 20 marks are for skill test, 5 marks for procedure writing, 15 marks for layover viva questions, 10 marks for laboratory viva questions, 5 marks for practical record, 5 marks for log book writing and 10 marks for project.

8. Special Practical Examination (12.5 Marks in SODECA For Credit System and 25 Marks in DECA For Old Scheme)

For B.Tech students, Special Practical List Examination will be conducted twice in a semester and average marks will be added in SODECA & DECA marks.

NOTE

Lesson Plan

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Topic

- FACULTY MEMBERS, PLEASE ENSURE TO WRITE VIVA QUESTIONS OF EACH PRACTICALS SEPARATELY. MIN NUMBER OF VIVA QUESTIONS PER PRACTICAL IS 20 DIFFERENT QUESTIONS.
- PLEASE ATTACH A SEPERATE SHEET IN DESIRED EXEL FORMAT FOR VIVA QUESTIONS. FORMAT OF EXCEL CAN BE DOWNLOADED FROM www.soapalam.com.

FOR EXTERNAL EXAMINATION THERE IS NO MULTIPLICATION FACTOR.

	າ Paper & Stເ	ident Details											
Mid Term / Fortnightly / Sem* Name of Faculty*		Back / Re-Back E	Back / Re-Back Examination		mission of QP	13/12/2020							
		Deepak Tomar		Date of Exar	mination*								
Subject*	1FY3 - 26 - Basic	sic Electrical Engineering Lab (New) (Cr 🔻 🔾		Course*	B.Tech (Aero	ronautical Engineering) 🔻							
Batch*	Combined Batch	d Batches 15, 16, 17, SF 1			Semester : 1	▼							
Email Id of Faculty:*		epaktomar@soaneemrana.org		Phone Num	Phone Number of Faculty* 965 454 4096		6						
Student Name				Student Reg No.									
Practical Question: 1		ety precautions. Introc ope. Real-life resistors			nents –voltmete	r, ammeter, multi-met	er,						
Lesson Plan* 1		Topic*	Basic safety pre	cautions	Source*	BASIC ELECT	RICAL ENGI						
Question : 2		Transformers: Observation of the no-load current waveform on an oscilloscope. Loading of a transformer: measurement of primary and secondary voltages and currents, and power.											
Lesson Plan 2		Topic	Transformers		Source	BASIC ELECT	RICAL ENGI						
Lesson Plan					Three-phase transformers: Star and Delta connections. Voltage and Current relationships (line-line voltage, phase-to-neutral voltage, line, and phase currents). Phase-shifts between the primary and secondary side								

Three-phase transformers

Source

BASIC ELECTRICAL ENGI

Question : 4	Demonstration of cut-out sections of machines: dc machines(commutator brush arrangement), induction machine (squirrel cage rotor), synchronous machine and single-phase induction machine.									
Lesson Plan	4	Topic	Single-phase induction machin	Source	BASIC ELECTRICAL ENGI					
Question : 5	Torque Speed Characteristic of separately excited dc motor.									
Lesson Plan	5	Topic	DC motor	Source	BASIC ELECTRICAL ENGI					
Question : 6	Demonstration of (a) dc-dc converters (b) dc-ac converters – PWM waveform (c) the use of dc-ac converter for speed control of an induction motor and (d) Components of LT switchgear.									
Lesson Plan	6	Topic	DC-AC converters	Source	BASIC ELECTRICAL ENGI					
Question: 7										
Lesson Plan		Topic		Source						
Question: 8					6					
Lesson Plan		Topic		Source						
Question: 9					6					
Lesson Plan		Topic		Source						
Question : 10					6					
Lesson Plan		Topic		Source						