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

- 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.

Question Paper & Student Details

Mid Term / Fortnightly / Sem*	Back / Re-Back Examination	**Date of Submission of QP**	17/12/2020
Name of Faculty*	Sidhartha Sondh	**Date of Examination***	18/12/2020
Subject*	4AN9 - Fluid Mechanics Lab (Old)	**Course***	B.Tech (Aeronautical Engineering)
Batch*	Back / Re-Back Students	**Semester***	Semester : 4
Email Id of Faculty:*	sidharthasondh@soaneemrana.org	**Phone Number of Faculty***	963 455 7511

Student Name		**Student Reg No.**	

Practical Questions

Question : 1* Determine Meta centric height of a given body.

Lesson Plan*	1	**Topic***	Meta centric height	**Source***	Lab manual

Question : 2 Determine Cd, Cv & Cc for given orifice.

Lesson Plan	3	**Topic**	Orifice	**Source**	Lab manual

Question : 3 Determine flow rate of water by V-notch.

Lesson Plan	5	**Topic**	V-notch	**Source**	Lab manual

Question : 4	Determine velocity of water by pitot tube.				
Lesson Plan	7	**Topic**	Pitot tube	**Source**	Lab manual
Question : 5	Verify Bernoulli's theorem.				
Lesson Plan	9	**Topic**	Bernoulli's theorem	**Source**	Lab manual
Question : 6	Determine flow rate of air by Venturi-meter				
Lesson Plan	11	**Topic**	Venturi-meter	**Source**	Lab manual
Question : 7	Determine flow rate of air by orifice-meter				
Lesson Plan	13	**Topic**	Orifice-meter	**Source**	Lab manual
Question : 8	Determine flow rate of air by nozzle meter.				
Lesson Plan	15	**Topic**	Nozzle meter	**Source**	Lab manual
Question : 9	Determine head loss of given length of pipe.				
Lesson Plan	17	**Topic**	Head loss	**Source**	Lab manual
Question : 10	Determination of the Reynold's number for laminar, turbulent and transient flow in pipe.				
Lesson Plan	19	**Topic**	Reynold's number	**Source**	Lab manual

Question : 11

Lesson Plan | Topic | Source

Question : 12

Lesson Plan | Topic | Source

Viva Questions

For Practicals Up to 3

Viva Question :

Add more

For practicals 4 to 6

Viva Question :

Add more

For practicals 7 to 9

Viva Question :

Add more

For practicals 10 to 12

Viva Question :

Add more

Upload Scanned Document In Case of Numerical or Diagram for any of the above question

Mention question number with relevant fig / numerical / equations. Max 150 KB

Choose files or drag here

Upload Excel Sheet For Viva Questions As Per Prescribed Format.

Mention question number with relevant fig / numerical / equations. Max 150 KB

Choose files or drag here

I have scrutinized the question paper. There is no spelling mistake or any type of irrelevant question.