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STATE BOARD OF TECHNICAL EDUCATION AND TRAINING
TELANGANA :: HYDERABAD

From
D. Venkateswarlu, B.E., MBA
Secretary
State Board of Technical
Education and Training
B.R.K.R.Bhavan, 7th Floor,
HYDERABAD.

To
The Principals of
Govt/Aided/ Private.
Polytechnics & Engg.
Colleges offering diploma
in 2nd shift

Lr. No. SBTET/B3/1895/2018.

Dated:06-12-2018

Sir/Madam,

Sub:- SBTET-Hyderabad- Academics- C-18 Curriculum – Modified Examination Pattern,
Model Question Paper,duration of Time, Marks weightage – Instructions to Students -
Reg.

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With reference to the subject cited, in the C-18 Curriculum, examination pattern, model
question paper, duration of time and weightage of marks are modified.

Accordingly the modified C-18 curriculum examination pattern is;

1. Midsem-I and Midsem-II examinations conducted for 20 marks each for the duration of 1 hour only.
2. Midsem-III and End Exmination conducted together for 40 marks for the duration of 2 hours only.

The question paper pattern in Mid Sem Examinations is as follows;

S.No	Description	Level	No. of questions	Marks for each question	Choice	Total Marks
01	Part-A	Remembering (R)	4	1	Nil	4 Marks
02	Part-B	Understading (U)	4	3	2	6 Marks
03	Part-C	Application (A)	4	5	2	10 Marks
Total Marks						20 Marks

The question paper pattern in End Sem Examinations is as follows;

S.No	Description	Level	No. of questions	Marks for each question	Choice	Total Marks
01	Part-A	Remembering (R)	8	1	Nil	8 Marks
02	Part-B	Understading (U)	8	3	4	12 Marks
03	Part-C	Application (A)	8	5	4	20 Marks
Total Marks						40 Marks

C-18 New Pateer**MID SEM-I EXAM**

S.No	Unit Name	R	U	A	Remarks
1	Unit-I	1, 2	5(a) 5(b)	7(a) 7(b)	
2	Unit-II	3, 4	6(a) 6(b)	8(a) 8(b)	
Total Questions		4	4	4	
MID SEM –II EXAM					
S.No	Unit Name	R	U	A	Remarks
1	Unit-III	1, 2	5(a) 5(b)	7(a) 7(b)	
2	Unit-IV	3, 4	6(a) 6(b)	8(a) 8(b)	
Total Questions		4	4	4	

Semester End Examination

Sl No	Unit No.	Questions to be set for SEE			Remarks
		R	U	A	
1	I	4	1	9(a)	13(a)
2	II				
3	III		2	10(a)	14(a)
4	IV				
5	V	3	5, 6	9(b)	13(b)
6	VI			7,8	11(a)
			11(b)		15(b)
Total Questions		8	8	8	
Legend:	Remembering (R)	1 Mark			
	Understanding (U)	3 Marks			
	Application (A)	5 Marks			

Instructions to the Students:

1. The student has to attempt either (a) or (b) question under the given question in serial.
2. The students are advised not to attempt more than prescribed questions in the exam.
3. In case additional questions attempted by the students, the consideration will be given on the basis of priority of first attempted question as the valid answer.
4. The student has to write the answer for the Questions of 1 mark, not more than $\frac{1}{4}$ page and 3 marks, not more than 1 page and 5 marks, not more than 2 pages.

Yours faithfully,
Sd/-D.VENKATESWARLU
SECRETARY

Copy submitted to CTE for favour of information
Copy to RJD TE Hyderabad for information

State Board of Technical Education and Training, Telangana, Hyderabad

C-18, II SEMESTER

205-ADVANCED WORKSHOP TECHNOLOGY

Mid Sem-I, Model Paper

Time: 1 Hour

Total Marks: 20 M

PART – A

*Answer ALL questions and each question carries **Two** marks. Marks: 4 X 1M = 4M
and answer should not exceed ¼ page.*

1. Write any two specifications of Drilling machine.
2. Define counter boring.
3. What is the function of lifter in foundry?
4. List any two properties of moulding sand.

PART – B

*Answer the following. Each question carries **Three** marks Marks: 2 X 3M= 6 M
and answer should not exceed 1 page.*

5. a). Draw the nomenclature of Twist Drill.
OR
b). Define the boring operations a) Spot facing b) Counter boring c) trepanning .
6. a) Define the terms adhesiveness, cohesiveness and refractoriness.
OR
b). What is the function of raiser in foundry?.

PART – C

*Answer the following. Each question carries **five** marks Marks: 2 X 5M = 10 M
and answer should not exceed 2 pages.*

7. a). Explain the working principle of radial drilling machine with a neat sketch ?
OR
b). Explain the working principle of sensitive drilling machine with a neat sketch ?
8. a). Explain about gated pattern and shell pattern
OR
b). List and explain any pattern allowances ?

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State Board of Technical Education and Training, Telangana, Hyderabad

C-18, II SEMESTER

205-ADVANCED WORKSHOP TECHNOLOGY

Mid Sem-II, Model Paper

Time: 1 Hour

Total Marks: 20 M

PART – A

*Answer ALL questions and each question carries **Two** marks. and answer should not exceed ¼ page.*

Marks: 4 X 1M = 4M

1. What is blow hole in casting?.
2. What is the slag inclusion in casting?
3. Define spinning?
4. Define thread rolling?

PART – B

*Answer the following. Each question carries **Three** marks and answer should not exceed 1 page.*

Marks: 2 X 3M= 6 M

5. a). Explain about investment casting.
OR
b). what is the application of shell moulding process?
6. a) What are the limitations of hot working process?
OR
b). List any three effects of hot working process.

PART – C

*Answer the following. Each question carries **five** marks and answer should not exceed 2 pages.*

Marks:2 X 5M =10 M

7. a). Explain about CO₂ moulding process?
OR
b). Explain about ceramic moulding process ?
8. a). List the Effects of cold working of metals, advantages
OR
b). Explain about tube drawing process ?

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State Board of Technical Education and Training, Telangana State
C18-Semester End Examination (SEE)
Model Paper
205-ADVANCED WORKSHOP TECHNOLOGY

TIME: 2 Hours

Max. Marks: 40

PART – A

*Answer all questions and each question carries one mark.
and answer should not exceed 1/4 page.*

8 x 1M = 8 M

1. Define trepanning.
2. How do you specify Twist Drill?
3. List any three types of moulding sands in foundry.
4. List the ingredients of parting sand.
5. What is spattering defect in casting?
6. List any three materials used for pattern making in casting.
7. What is spinning in operation of hot working?
8. What is cold heading operation in cold working process?

PART – B

Answer the following. Each question carries Three marks

4 x 3 M = 12M

and answer should not exceed 1 page.

9. a) Define spot facing and trepanning.
OR
b) Draw the nomenclature of twist drill.
10. a) Write the function of raiser in foundry.
OR
b) Write the function of vent rod in foundry.
11. a) What is cemented bonding moulding?
OR
b) Explain about slag inclusion in foundry.
12. a) List any three disadvantages of hot working.
OR
b) What is spinning operation in cold working process?.

PART – C

Answer the following. Each question carries **Five** marks

4 x 5M = 20M

and answer should not exceed 2 pages.

13. a) Explain working principle of radial drilling machine with a neat sketch.

OR

b) Explain working principle of sensitive drilling machine with a neat sketch.

14. a) Define the following moulding sand properties

a) Porosity b) adhesiveness c) Cohesiveness d) flowability e) collapsibility

OR

b) Explain the pattern allowances.

15. a) Explain shell moulding with a neat sketch.

OR

b) Explain centrifugal casting with a neat sketch.

16. a) Describe the working principle of tube extrusion process?

OR

b) Define the following

i) Squeezing ii) cold heading iii) thread rolling iv) spinning.

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State Board of Technical Education and Training, Telangana, Hyderabad

C-18 Model Paper

ADVANCED ENGINEERING DRAWING

Mid Sem - I

Time: 1 Hour

Total Marks: 20 M

PART – A

*Answer the following. Each question carries **Two** marks*

Marks: 4 X 2M= 8 M

1. Draw the projections of a cube of 35mm side, resting on one of its faces (bases) on H.P. such that one of its face is parallel to and 15 mm in front of V.P.
2. Draw the conventional representation for the following materials
a) Wood b) Concrete
3. A cone of base 50 mm diameter and axis 70 mm long lies on its base on H.P. A sectional plane parallel to H.P passes through the axis at a 40 mm from the base. Draw the projections of the remaining Cone.
4. Define the terms a) Prism b) Pyramid

PART – B

*Answer the following. Each question carries **Six** marks*

Marks: 2 X 6M = 12 M

5. a. A hexagonal prism with side of base 30 mm and axis 70 mm long, is lying one of its rectangular faces on H.P. Draw the projections of the prism, when its axis is parallel to both H.P and V.P

OR

- b. A cylinder with base 40 mm diameter and 60 mm long, rests on a point of its base on H.P such that the axis makes an angle of 30 degrees with H.P. Draw the projections of the cylinder.
6. a. A cylinder of diameter 50 mm and axis 70 long rests with its base on H.P. It is cut by a section plane parallel to V.P and passing through the solid at a distance 10 mm from the axis. Draw the projections.

OR

- b. A cube of edge 40 mm rests on H.P one of its edges and a face is parallel to V.P. One of the face containing the resting edge is inclined at 30 degrees to H.P. It is cut by horizontal section plane at 10 mm away from the axis. Draw the projections of the cube.
