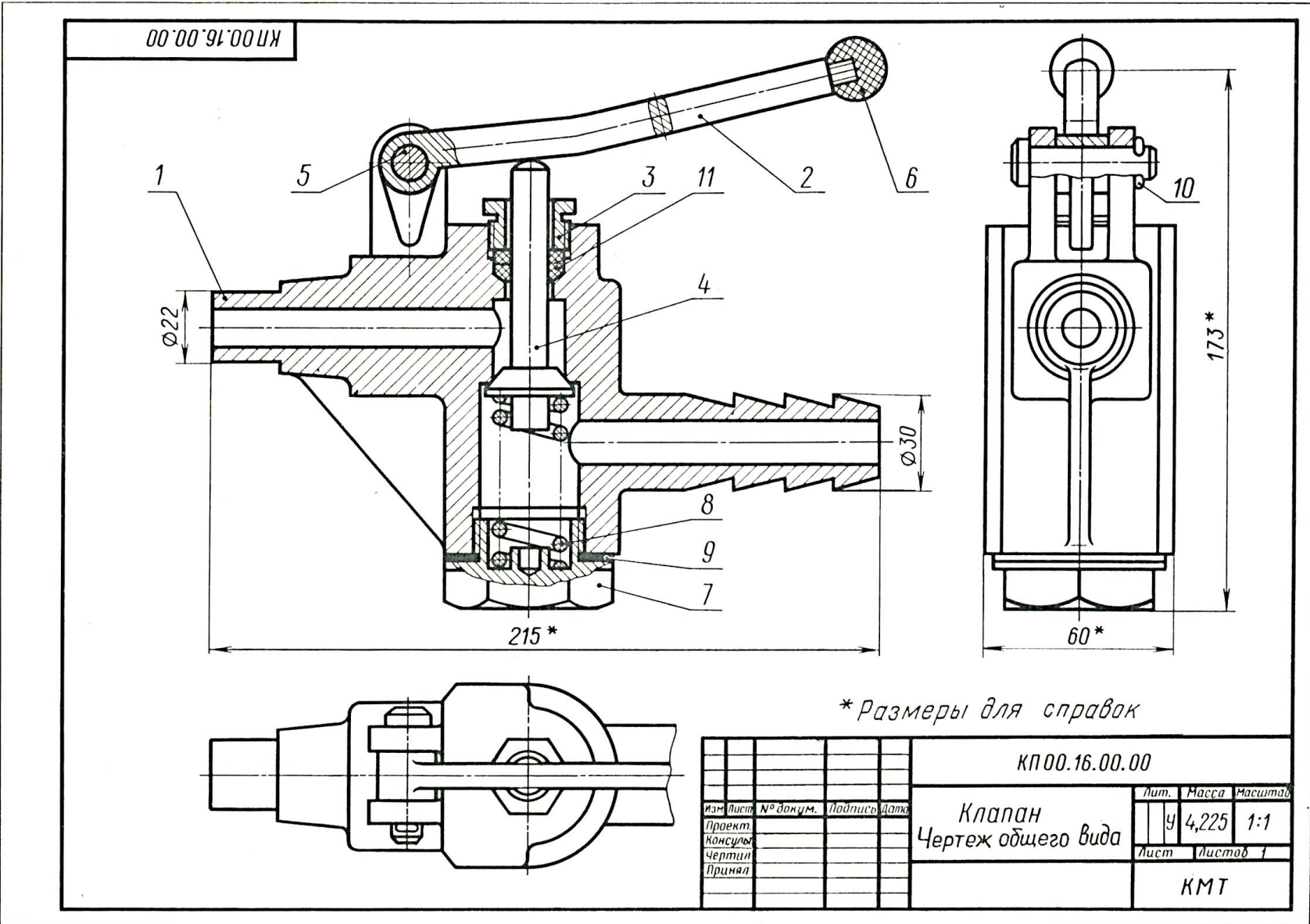# THE 2nd OPEN INTERNATIONAL INTERNET OLYMPIAD IN ENGINEERING AND COMPUTER GRAPHICS

(example of a task and the sequence of its execution)

Turkmenistan, Dashoguz - 2023

EXAMPLE ASSIGNMENT

КП00.16.00.00

Ø22

1   5   3   11   2   6   10

4

173 *

Ø30

8

9

7

215 *

60 *

*Размеры для справок

				КП00.16.00.00			
					Лит.	Масса	Масштаб
Изм	Лист	№ докум.	Подпись	Дата	У	4,225	1:1
Проект.							
Консульт		Клапан					
Чертил		Чертеж общего вида					
Принял					Лист	Листов 1	
				КМТ			

EXAMPLE ASSIGNMENT

Формат	Зона	Поз.	Обозначение	Наименование	Кол.	Приме-чание
				Документация		
А1			КП.00.16.00.00.СБ	Сборочный чертеж		
				Детали		
А3		1	КП.00.16.00.01	Корпус	1	
А4		2	КП.00.16.00.02	Рукоятка	1	
А4		3	КП.00.16.00.03	Гайка накидная	1	
А4		4	КП.00.16.00.04	Клапан	1	
А4		5	КП.00.16.00.05	Палец	1	
А4		6	КП.00.16.00.06	Наконечник	1	
А4		7	КП.00.16.00.07	Гайка регулировочная	1	
А4		8	КП.00.16.00.08	Пружина	1	
А4		9	КП.00.16.00.09	Прокладка	1	
				Стандартные изделия		
		10		Шплинт 5×20	1	
				ГОСТ 397-71		
				Материал		
		11		Кольцо	2	
				ГОСТ 6308-71		

					КП.00.16.00.00	
Изм	Лист	№ докум.	Подпись	Дата		
Проект.						Лит.	Лист	Листов
Консульт.								1
Чертил					Клапан		
Принял							

TASK CONDITIONS

Stage 1 «Modelling of details»

<u>Problem:</u> To develop three-dimensional models of details of given assembly unit.
<u>Condition of the beginning of a stage:</u> it is performed in the work beginning.
<u>Criteria:</u> fulfillment of all surfaces of a detail on sizes (measurement by means of a ruler with a margin error no more ±2 mm)

Stage 2 «Modelling of assembly unit»

<u>Problem:</u> Execute a model of an assembly unit from the created parts and parts from the databank, taking into account their mates according to the assembly drawing.
<u>Criteria:</u> creation of the necessary relationships for the positioning of parts in the assembly and the mobility of the mechanism.

Stage 3 «Performance of delineations of details»

<u>Problem:</u> to Execute on 3D models design drawings of a detail of pos. 1 "case".
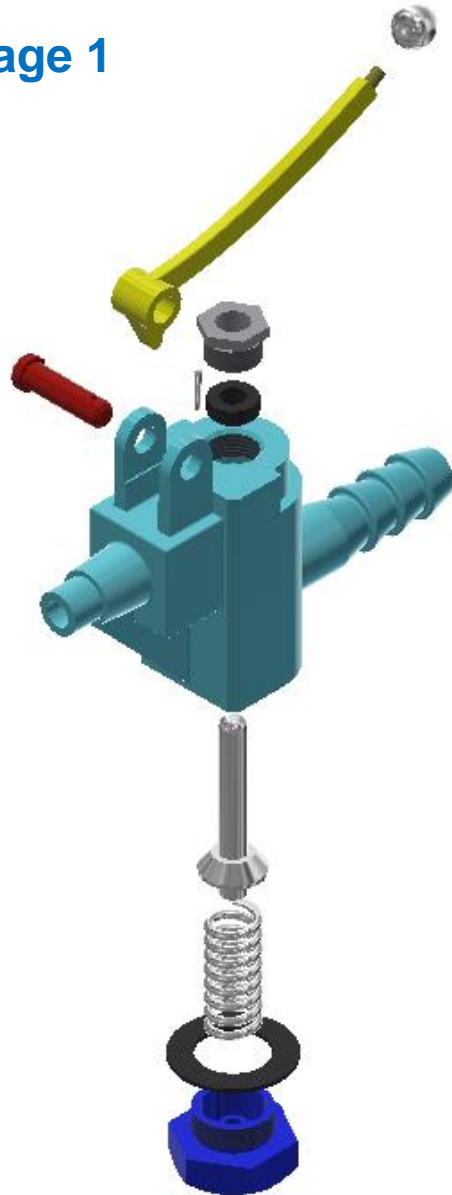<u>Criteria:</u> fulfillment of UNIFIED SYSTEM OF DESIGN DOCUMENTATION requirements (creation of the necessary images, correct dimensioning, indication of roughness, technical requirements, filling in the main inscription).

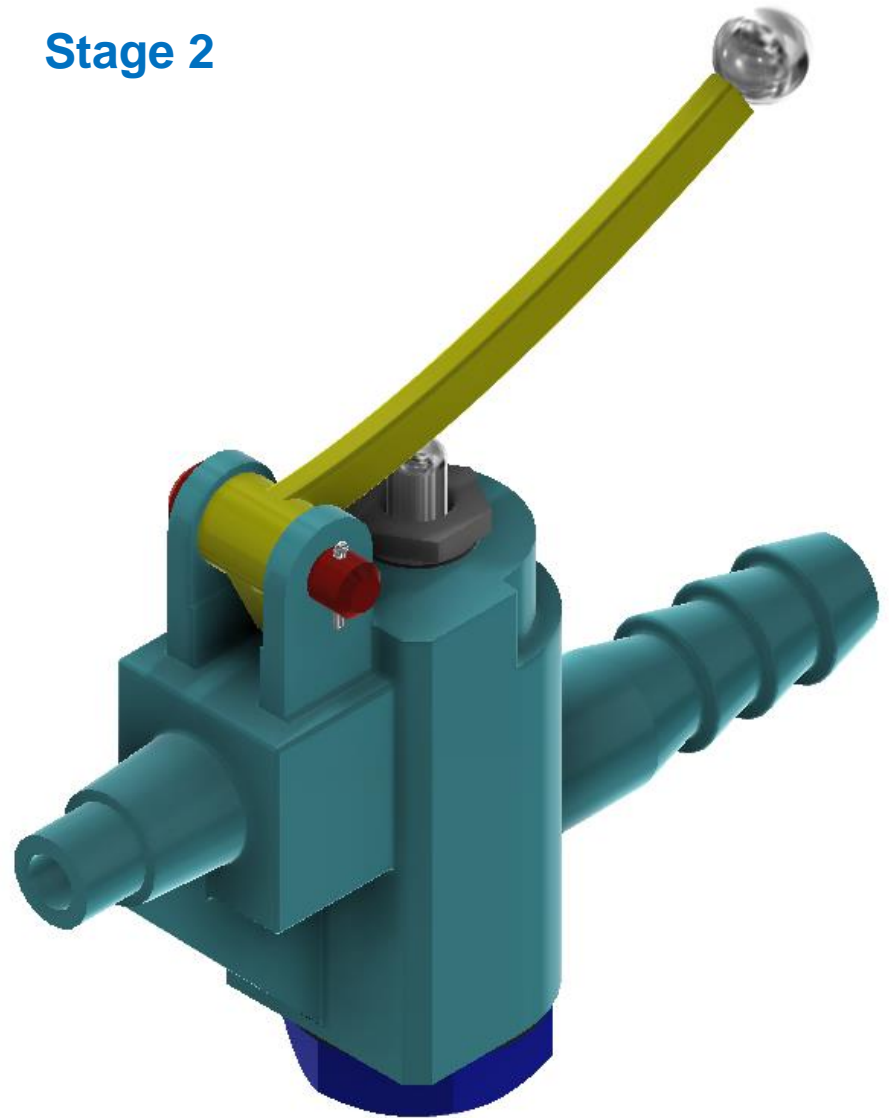**Note: 100 points are given for complete and correctly performed work.**

For task performance programs can be used
AutoCAD, KOMPAS-3D, Autodesk Inventor, Solid Works, etc.

The sequence of the task

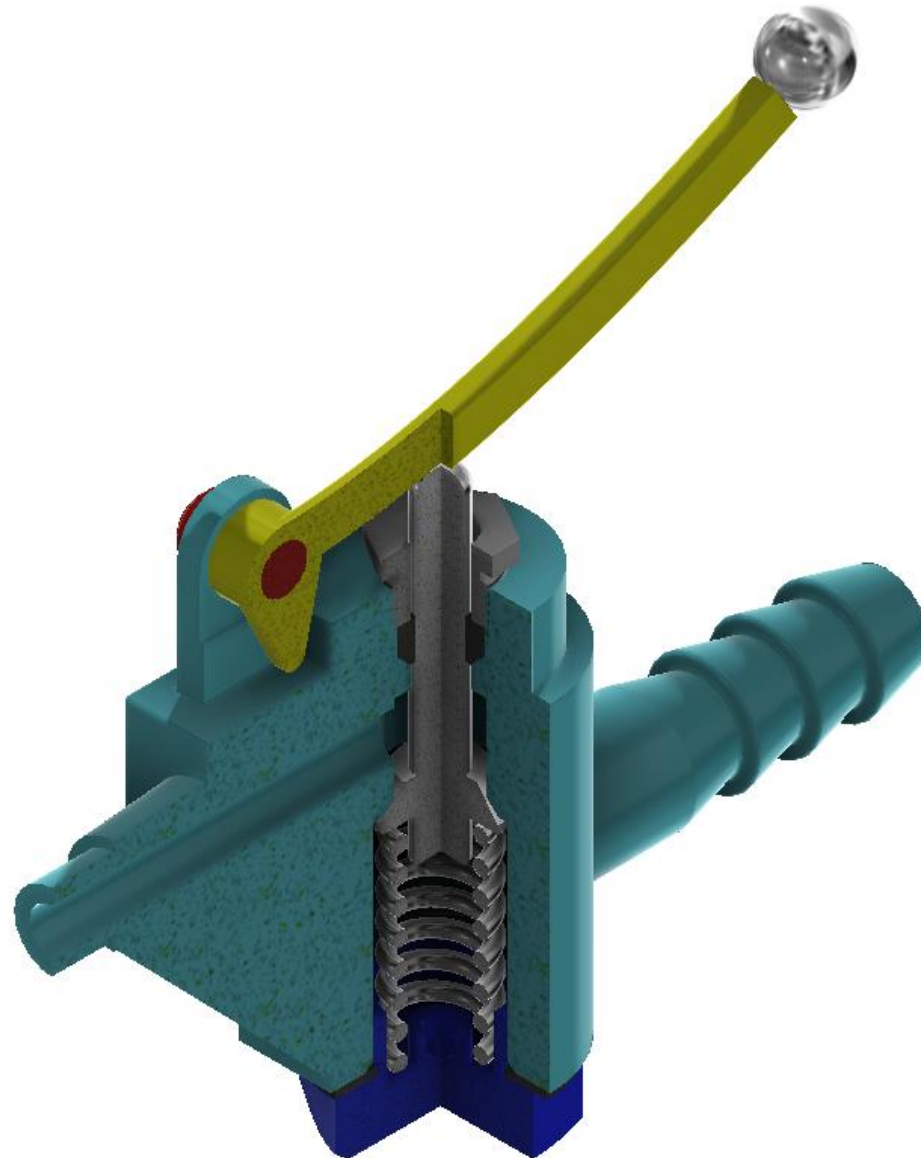# The sequence of the task

Stage 2

Stage 3

A - A (1:1)

B (2:1)

C (2:1)

1. Görkezilmedik radiuslar 2 mm
2. * Sorag üçin ölçegler

	Üýt	List	Resminama №	Goly	Sene			Litera	Massa	Masstab
	Çyzan		Eltezarow T.				Korpus		0.9	1:1
	Kab. eden		Durdyýew D.							
							СЧ18–36	List 1	Listler 1	
							ГОСТ 1412–70	TOHI		