	Utech
Name:	(4)
Roll No.:	A Agree (If Executing 2nd Explored
Invigilator's Signature :	

CS/M.Pharm/SEM-1/MPT-115(2)/2010-11 2010-11

QUALITY ASSURANCE - II

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A (Objective Type Questions)

1. Answer any ten of the following:

- $10 \times 1 = 10$
- A) Choose the correct alternatives for the following:
 - i) Logistical support is associated with
 - a) maintenance
- b) availability
- c) reliability
- d) trouble shooting.
- ii) Quality system model for quality assurance in production and installation is
 - a) ISO 9002 1987
 - b) ISO 9001 1987
 - c) ISO 9000 1987
 - d) ISO 9003 1987.

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- iii) A state resembling ethyl alcohol intoxication occurs in
 - a) cyanide poisoning
 - b) carbon monoxide poisoning
 - c) lead poisoning
 - d) arsenic poisoning.
- iv) Class A analytical method is a
 - a) method for identity of bulk drugs and / or their formulations
 - b) method for determining concentration of bulk drug or major ingredient in finished dosage form
 - c) method for impurities in bulk drugs and / or their formulations
 - d) method for assessing characteristics of finished dosage form.
- v) Halon extinguishes fire by
 - a) displacing oxygen
 - b) binding with oxygen
 - c) reducing temperature
 - d) none of these.



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	vi)					usec	l in	phari	naceutical	
		unit	is not	more tha	ın		d	A Abresia (N.E)	analistige Studi Experient	
		a)	0·15 E	EU/ml		b)	0.20	EU/	ml	
		c)	0·25 E	EU/ml		d)	0.30	EU/	ml.	
B)	Fill i	Till in the blanks: ii) The ratio of mean time between failures (MTBF) and sum of MTBF plus mean time to repair (MTTR) is called								
	vii)									
	viii)	The full form of AQL is								
	ix)	The OC curve is a graph of lot fraction defective versus								
	x)	Lack of oxygen in the blood or non-delivery of oxygen to the tissues is called								
	xi)	ISO : $9000-2000$ is a combined standard which includes ISO -9002 and								
	xii)	The	full for	m of EEA	AS is	••••				
GROUP – B										
(Short Answer Type Questions)										
		An	swer a	ny three	of the	follow	ving.		$3 \times 5 = 15$	
Write down the steps applied to the problem of quality in										
quality control. What are the various aspects to produce the										
final analytical report ?										

2.

3.

Write a short note on validation of sterilization methods.

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- 4. Explain the four quadrants of GLP.
- 5. What is ISO? Explain ISO 9000 series of standards.
- 6. What are the good warehousing practices?

GROUP – C (Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 7. What do you mean by validation? Describe validation policy, documentation, approaches and programs of process validation.
- 8. What is quality audit? Explain different types of audit. Write down the principles of auditing.
- 9. Describe the sampling highlighting different sampling plans, standard sampling plans, the Indian standards and the sampling procedures in pharmaceutical industry.
- 10. Explain the following:
 - a) Safety policy
 - b) Waste disoposal and storage.
- 11. Write down the classification of different biological products based on immunological principles. Briefly describe the supporting and supplementary guidelines for sterile products.

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