11718 3 Hours / 100 Marks

Seat No.								
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Instructions:

- (1) All Questions are *compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. (A) Answer any THREE of the following:

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- (a) State the importance of plant maintenance.
- (b) State causes of accident in industry.
- (c) Give classification of fire and fire extinguishers.
- (d) List the equipments used for breathing and respiratory protection.

(B) Answer any ONE of the following:

6

- (a) List the sources of radioactive hazards with one example each.
- (b) Describe the procedure for safety audit.

2. Answer any FOUR of the following:

16

- (a) List the harmful effects of ammonia on human being.
- (b) What are the factors considered for selection of proper personal protective equipment?
- (c) Enlist the causes of fire.
- (d) Explain bin storage with neat sketch.
- (e) Explain on-line maintenance with suitable example.

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3.	Ans	nswer any FOUR of the following:						
	(a)	State	e the objectives of safety audit.					
	(b)	Exp	lain predictive maintenance in detail.					
	(c)	Draw a neat sketch of any four personal protective equipments. Give the precautions to be taken against electrical hazard. Draw a neat sketch of dry chemical powder fire extinguisher. State the precautions to be taken while transporting flammable liquid.						
	(d)							
	(e)							
	(f)							
4.	(A)	Answer any THREE of the following:						
		(a)	Explain preventive maintenance in detail.					
		(b)	State the principles of material handling.					
		(c)	Explain fire triangle and principle of fire extinguishing.					
		(d)	Give the classification of explosives.					
	(B)	Answer any ONE of the following:						
		(a)	State functions and responsibilities of maintenance department.					
		(b)	Draw a neat sketch of positive and negative pressure pneumatic conveyors.					
5.	Ans	wer a	ny TWO of the following:	16				
(b	(a)	Explain construction and working of soda acid type fire extinguisher with neat sketch.						
	(b)	Describe the procedure for plant startup and shutdown.						
	(c)	Explain the procedure for shutdown maintenance.						
	Ans	swer any TWO of the following:						
	(a)	Explain construction and working of bucket elevator with neat sketch.						
	(b)	Exp	lain supplied air type and self contained breathing apparatus in detail.					
	(c)	(i)	Describe scheduled maintenance in detail.					
		(ii)	Write sources and protection of noise hazard.					