

[१००] [८००]

## MAHARASHTRA STATE BOARD OF SKILL DEVELOPMENT EXAMINATION, MUMBAI

Examination--July, 2020

ADVANCE DIPLOMA IN INDUSTRIAL SAFETY

[१२५-3 iEE]

(BEthE MhE-100)

&lt;B&gt;]BhE 1/2EVEE +hb÷+EaEVEE 1/2IE (EIE+@E1/2)

oEEhE.—(1) oEeE |E]xE +EeEeE +E1/2E.

(2) +E(E±E) =KE@E[E']oEoE. VEaE +E'E]aEEo iEaEaxE]oE]E]EhE oEEhE.

(3) =VE'EoEobä +oE±EaEa +EEobä (EhE MhE nE]E'EIEIE.

(4) +E'E]aEEo +oE±EeE oEEhE b]E MhEIE VEhE.

MhE

20

1. aEEhE {EaEEeE EeEeE :-

(+) +EeEeEIE @E : .....

(1) EoEE±EEoE

(2) B@E]EhE

(3) +EeEoE

(4) E@E oEeE

(E)u 1/2EaEE xE'EaEE oEEhE.....

(1) 1/2IEE

(2) EeEhE]Eo ]EobE

(3) bE@Eo E]E

(4) E@E oEeE

(E) aEE'EoEEaEE +E@EESaEE E'EaEoEE oEEhE BVExEo ..... +E1/2E.

(1) B'E+EB±E

(2) D.G.F.A.S.I.

(3) I.L.O +EhE W.H.O.

(4) BxE+EaE+EBSE.

(b) bE. EeEa EeEaEaE+E±aEE E@EaEE ..... EeEIE E'EIEVEIE EoEaEeE  
EeE'E E EeEaE.

(1) oE1/2

(2) oEEIE

(3) +E`o

(4) xE&gt;E.

(&lt;) xEeE-+EaEeEoEhE ..... E'EeEoEhE E@E +E1/2

(1) ±E]E@E

(2) EeE-EeEoE

(3) IE-EeEoE

(4) E@E oEeE

(i) E1/2E]E EeEaEaE EeE'E 1963 xEeE@E EeE[EIE EeEaE +EVEaE@E aEEhE  
xEaEhE EeEaE'E 73(1/2) +EhE 73 (b@E) xEeE@E ..... +E1/2

(1) EeEExEeE +E'E]aEeE

(2) EeExEeE@E +E'E]aEeE

(3) EeEaE@E +E'E]aEeE

(4) oEEaE@E @E EeE@E +E'E]aEeE.

(M) v'EeE oE'E[E'E]E E1/2EhE EeE oEE EeEhE iEaE EoE'E 89 +EhE +EVEE  
+EVEE EeEaE EeEaE +EVEaE'E, 1948 SEaE]EIEE ..... oEEaEIE.

(1) E]E]EeE-1

(2) E]E]EeE-11

(3) +xEeEeE-111

(4) E]E]EeE-1V.

[=±E]E E1/2



CON 1416

(ENGLISH)

[ TIME ALLOWED—3 HOURS ]

(MARKS—100)

**INDUSTRIAL HYGIENE AND OCCUPATIONAL HEALTH (THEORY-VI)***Instructions:—*(1) All questions are *compulsory*.

(2) Illustrate your answers with neat sketches wherever necessary.

(3) Figures to the right indicate *full* marks.(4) Assume suitable data if *necessary*.**Marks**

1. Choose correct alternatives :—

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(i) Notified diseases .....

(a) Silicosis

(b) Asbestosis

(c) Anthrax

(d) All of above.

(ii) Air sampling equipment .....

(a) Hand pump

(b) Aspirable bulb

(c) Aspirator bottle

(d) All of above.

(iii) Agencies involved in the development of occupational health are .....

(a) MOL

(b) D.G.F.A.S.L.I.

(c) I.L.O. and W.H.O.

(d) NIOH.

(iv) Dr. Show Wallace invented a rule to divided our body in a figure of .....

(a) Six

(b) Seven

(c) Eight

(d) Nine.

(v) Non-ionizing radiation is due to .....

(a) Lasers

(b) Y-rays

(c) X-rays

(d) All of above.

(vi) Appointment of plant medical officer as per Maharashtra factories rule 1963, rule 73(v) and 73(w) is .....

(a) Statutory requirement

(b) Obligatory requirement

(c) Legal requirement

(d) Occupier requirement for safety.

(vii) Noise-included deafness or hearing loss notified under section 89 and schedule of factory act, 1948 notified as .....

(a) Schedule I

(b) Schedule II

(c) Schedule III

(d) Schedule IV.

(viii) SCBA device uses .....

(a) Compressed oxygen cyclinder

(b) Self generating oxygen cylinder

(c) Compressed air cylinder

(d) All of above.

[ Turn over

CON 1416

Marks

- (ix) Permissible noise exposure for continuous noise for 8 hours per day ..... .
- (a) 90 db (b) 92 db
- (c) 95 db (d) 100 db.
- (x) Dr. Show Wallace invented a rule to divided our body in a figure of ..... .
- (a) Six (b) Seven
- (c) Eight (d) Nine.
2. Write short notes on (any *four*) :— 16
- (a) Occupational cancer (b) Air sampling
- (c) Safety goggles (d) Biological monitoring
- (e) Lead poisoning (f) Threshold limit value.
3. Write answers of the following (any *two*) :— 16
- (a) What are the main health hazard in cement industries ? Write the preventive measures for safety guarding the health of worker in this industries.
- (b) What are the various classification of respiratory personal protective device ? Describe any one with sketches.
- (c) State the group of chemicals and action on body.
4. Write answers of the following (any *two*) :— 16
- (a) Explain the main effects of heat on human body.
- (b) Explain the effects of Biological hazards on human body.
- (c) Explain the various analytical methods used for determination of contaminants.
5. Answer the following questions (any *two*) :— 16
- (a) Describe the occupational health hazards and their control measures
- (i) Degreasing
- (ii) Shot blasting
- (iii) Electric arc welding.
- (b) Mention the different types of respiratory protective equipment and clearly state under what situation they are used.
- (c) Write down the various personal protective equipments along with their use.
6. Answer in detail (any *two*) :— 16
- (a) State the group of chemical and action on body.
- (b) Explain the technique of gas liquid chromatography.
- (c) What are various classification of respiratory personal protective devices ? Describe any one with sketches.
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