

CONTINUING EDUCATION TEST #1

The Clean Air Act and Nuclear Medicine

For each of the following questions, select the best answer. Then circle the number on the CE Tests Answer Sheet that corresponds to the answer you have selected. Complete the answer sheet. Keep a record of your responses so that you can compare them with the correct answers, which will be published in the next issue of *JNMT*. Answers to these test questions should be returned on the Answer Sheet no later than **May 15, 1996**. An 80% correct response rate is required to receive 1.0 CEH (Continuing Education Hour) credit for each article. SNM Technologist Section members can find their VOICE number on the upper left-hand corner of their *JNMT* mailing labels. If you've joined our Nonmember VOICE Tracking Program, please check the **NMVT** box on the Answer Sheet (no extra fee is required). Documentation will appear on your VOICE transcript which is issued in March of each year. Nonmembers who have not joined our Nonmember VOICE Tracking Program must mail a \$10.00 check or money order, made payable to SNM, along with the completed quiz. You will receive a certificate of completion indicating credit awarded for receiving a passing score of 80% or better.

A. Agencies which regulate some aspect of nuclear medicine in the US include _____.

- 101. NRC
- 102. DOT
- 103. OSHA
- 104. EPA
- 105. all of the above

B. The Environmental Protection Agency (EPA) has developed standards for radon.

- 106. true
- 107. false

C. The EPA has established air emission standards, known as NES-HAPS, which are _____.

- 108. National Electrical Standards for hazardous air pollutants
- 109. National Emission Standards for hazardous air pollutants
- 110. National Emission Standards for higher air pollutants
- 111. National Energy Standards for hazardous air pollutants
- 112. none of the above

D. Standards published by the NRC in 10 CFR Part 20 allow the public to receive _____ mrem of exposure to radioactive materials annually.

- 113. 10
- 114. 50
- 115. 100
- 116. 200
- 117. 500

E. EPA standards in 40 CFR Part 61 limit the radionuclide discharges to the ambient air to an amount that would cause any member of the public to receive an effective dose equivalent in any one year to _____.

- 118. 10 mrem
- 119. 20 mrem
- 120. 30 mrem
- 121. 40 mrem
- 122. 50 mrem

F. The EPA emission standards allow _____ mrem per year attributed to radioiodine.

- 123. 1
- 124. 2
- 125. 3
- 126. 5
- 127. 10

G. EPA standard 40 CFR Part 61 affects all facilities licensed by the NRC or Agreement States.

- 128. true
- 129. false

H. The radiation risk model used by the EPA in its rule making is _____.

- 130. linear, low-threshold model
- 131. exponential, no-threshold model
- 132. exponential, high-threshold model
- 133. linear, no-threshold model
- 134. none of the above

I. In compliance with the Clean Air Act (CAA), facilities emitting radionuclides in an amount of 10% or less of the dose standard must file a report with the EPA.

- 135. true
- 136. false

J. A facility may demonstrate compliance with the CAA emission standards by which of the following methods?

- 137. annual possession limits
- 138. effluent concentration limits
- 139. the COMPLY model
- 140. alternative computer models
- 141. all of the above

K. Records related to the CAA regulatory compliance must be maintained for a period of _____.

- 142. 1 yr
- 143. 2 yr
- 144. 3 yr
- 145. 5 yr
- 146. none of the above

L. According to the CAA, a member of the public is defined as a person at the nearest residence or off-site school or office.

- 147. true
- 148. false

M. COMPLY Level 3 of the EPA Clear Air Act reporting program considers the nearest source of _____.

- 149. energy production
- 150. heat production
- 151. food production
- 152. x-ray production
- 153. none of the above

CONTINUING EDUCATION TEST #2

An Introduction to the Internet, Part 4

N. Most of the information on the Internet is found at _____ sites.

- 154. FTP
- 155. gopher
- 156. WWW
- 157. all of the above
- 158. 154 and 156 only

S. Java by SUN Microsystems is a (an) _____.

- 173. WWW browser
- 174. programming language
- 175. applet
- 176. TCP/IP protocol
- 177. none of the above

X. Medical resources on the Internet include _____.

- 198. Cancernet
- 199. Medline
- 200. Oncolink
- 201. Virtual Hospital
- 202. all of the above

O. Each FTP site is connected to other FTP sites and functions as a distributed document system.

- 159. true
- 160. false

T. All WWW browsers have stop buttons to allow which of the following?

- 178. cancelling the modem connection
- 179. freezing a video frame
- 180. exiting from the browser
- 181. cancelling the downloading of documents
- 182. none of the above

Y. To reach the Society of Nuclear Medicine on the WWW one would use which of the following?

- 203. <http://www.snm>
- 204. <http://www.snm.org>
- 205. <http://lynx.org.snm>
- 206. <http://www.snm.org>
- 207. none of the above

P. Gopher sites link computers together through a menu format which allows the user to choose an item to download a file.

- 161. true
- 162. false

U. Of the following, which is a text-oriented browser of the WWW?

- 183. Lynx
- 184. Netscape
- 185. Mosaic
- 186. Java
- 187. none of the above

Z. Nuclear medicine sites on the Internet include _____.

- 208. <http://www.med.harvard.edu/JPNM>
- 209. <http://gamma.wustl.edu>
- 210. <http://www.lunis.luc.edu>
- 211. 209 and 210 only
- 212. all of the above

Q. Mosaic, a graphical World Wide Web (WWW) browser, furthered the development of which of the following _____.

- 163. Netscape
- 164. Hypertext Markup Language
- 165. Hypertext Transfer Protocol
- 166. 164 and 165 only
- 167. all of the above

V. Search and retrieval programs for the WWW include _____.

- 188. Yahoo
- 189. Lycos
- 190. Webcrawler
- 191. Infoseek
- 192. all of the above

AA. LUNIS, a nuclear medicine bulletin board, can be reached via _____.

- 213. Telnet
- 214. WWW
- 215. email
- 216. 213 and 214
- 217. 214 and 215

R. VRML, the Virtual Reality Modeling Language, is a new language which allows _____.

- 168. the use of applets
- 169. faster transmission rates
- 170. 3-D image manipulation
- 171. 168 and 170 of the above
- 172. none of the above

W. The Internet Meta Index is _____.

- 193. a WWW search program
- 194. a commercial search program
- 195. an access protocol for the WWW
- 196. a listing of search programs
- 197. none of the above

BB. The Nuclear Regulatory Commission may be reached on the WWW at <http://www.nrc.gov>.

- 218. true
- 219. false

Answers to CE Article Test, December 1995

The Continuing Education article "An Introduction to the Internet, Part 3" by Jerry V. Glowniak was accompanied by a CE test. The correct answers are as follows:

A. 105	D. 117	G. 126	J. 140	M. 148	O. 157
B. 110	E. 119	H. 131	K. 143	N. 151	P. 159
C. 111	F. 124	I. 134	L. 144		

CONTINUING EDUCATION TEST

Answer Sheet

101	111	121	131	141	151	161	171	181	191	201	211	221	231	241
102	112	122	132	142	152	162	172	182	192	202	212	222	232	242
103	113	123	133	143	153	163	173	183	193	203	213	223	233	243
104	114	124	134	144	154	164	174	184	194	204	214	224	234	244
105	115	125	135	145	155	165	175	185	195	205	215	225	235	245
106	116	126	136	146	156	166	176	186	196	206	216	226	236	246
107	117	127	137	147	157	167	177	187	197	207	217	227	237	247
108	118	128	138	148	158	168	178	188	198	208	218	228	238	248
109	119	129	139	149	159	169	179	189	199	209	219	229	239	249
110	120	130	140	150	160	170	180	190	200	210	220	230	240	250

Name _____ Title _____

Hospital or Facility _____ Dept. _____

Street Address _____

City _____ State _____ Zip _____ Phone _____

VOICE No. _____ Or please check one: ☐ NMVTP participant (no fee required) ☐ Nonmember—\$10 check or money order enclosed

Return a copy of this answer sheet no later than May 15, 1996 to:

Continuing Education Coordinator, *Journal of Nuclear Medicine Technology*

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