

MAHARASHTRA STATE BOARD OF SKILL DEVELOPMENT EXAMINATION, MUMBAI

Examination—July, 2020

CERTIFICATE COURSE IN RADIOLOGY TECHNICIAN

[~~ἔ~~ῥ—3 iÉÉ°É]

(BEŮHÉ MŮĚ—100)

°ÊÙ]à °EñÉ, BC°É-®áí<Ç°ÊÙ VÊÙ]ÏC×Éò (ÊÍÉ+®02)

NÍBÉ

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1. (+) E^(R)E^aE^eVÉEMÉE I^(R)Eⁱ (E^dEⁿI^eE^p) n^(d) :-

- [illegible]

(२६) जीए+ए०+ए वीएब+ए वीएयूए :-

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' + ' MÉ]õ

' É ' MÉ] ã

- [illegible]

(E0) $J_{E \pm E_0 \pm E}^{\circ} \{E_0 E\}^{\circ} \{E_0 E \pm E_0/2\} (E_0 E E E E E E E) \{E E E\} :-$

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- (1) $B \vdash \frac{1}{2} \text{B. } x \text{ f f f b} \div$
- (2) $B \vdash \text{f f f b. } x \text{ f f f b} \div$
- (3) $+ \text{f f f. B f f. b f f.}$
- (4) $\text{f f f. } \frac{1}{2} \text{f f. } \text{f f f f}$
- (5) $B \vdash \text{f f} + \text{f f f.}$
- (6) $\text{f f f. } \frac{1}{2} \text{f f. f f f.}$

2. JEE+EO+EE(EE) EdehEi+EE%P nme |E|xEESE =KE@ E+EV% :-

(+) °EO.]@. °Eox°EE`@ °umhEESE {EECEEE@ (preparation) EoEa EoEa VEEiEa ?

(E) <°EO.VEO. EayVSEO ExEiEiEO EoEo %Ea ?

(Eo) BC°E-@]@EE E+Va BC°E-@VSEO ExEiEiEO EoEo %Ea ?

(b) अंधाच्या खोलीच्या (darkroom) EEECE E/<EE@EOEE`@ +EE°EEEO MEa]@ EdehEi+EE ?

3. JEE+EO+EE(EE) EdehEi+EE%P nme |E|xEESE =KE@ E+EV% :-

16

(+) BC°E-@ E;@EE °E@EaEE xEEa@`@ aEh°EESEa E+V% EE EEEnu Eo@.

(E) E;@CEOME (BC°E-@ E;@EESEa) Eo@EaEE EEMESEO EdEhEa EdehEiEO ?

(Eo) °EO.]@. E+Va Oa °EaEE <EEVME E+VVEa EdeE ?

(b) JEEEIE (Normal) <°EO.VEO. EayVSEa EE°EO E+EV%.

4. JEE+EO+EE(EE) EdehEi+EE%P nme |E|xEESE IEEbCEEEIE =KE@ E+EV% :-

16

(+) EoEa]OESEO ExEME iEO%P EoEo @JEE+EE ?

(E) EoEa]OEaE+Va BC°E-@ E;@EESEa EEEbME EE +xE+EEbME Eo@EaEESEO EbiEO E+EV%.

(Eo) bayhE[EE@aPE]EO EdehEiEa ? JEE°EESEa EdeEC E+EV%.

(b) <°EO.VEO. EOP +EE+EE+EE EdehEiEdehEiEO EEE%EO EE°E] JEEoiEa ?

5. JEE+EO+EE(EE) EdehEi+EE%P SE@EE@E]EE E+EV% :-

16

(+) +EE°EEEO ESEEOi°EE`@ (emergency) लागणाऱ्या औषधांची पेट्टी.

(E) °EO.]@. °Eox°EE`@ EEE@Ea VEEhEE@ EdE]@]@ EEb+EE.

(Eo) U@iEOSEE (Thorax) °EO.]@. °EoxE.

(b) <°EO.VEO. E+Eb°Ea

(<) BC°E-@ E;@EESEa JEEde@

6. JEE+EO+EE(EE) EdehEi+EE%P nme |E|xEESE =KE@ E+EV% :-

16

(+) <°EO.VEO. E@EEEOhEE E+Va (°umhEEaEE) EdEhEa °E@E E+Va VEEiEa ?

(E) BC°E-@]@CEEE°EaESEO EoiECa EdehEiEO ?

(Eo) EoEa]OE@EO <x]@x°E;@<ME °Go@E ESEEO]OEhEa (mounting) SEO EbiEO E+EV%.

(b) %nPEiEO+EE (abdomen) +EE°E E+EV%.

(ENGLISH)

[TIME ALLOWED—3 HOURS]

(MARKS—100)

C.T. SCAN, X-RAY, ECG TECHNIQUE (THEORY-II)**Marks**1. (a) Fill in the blanks (any *ten*) :—

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- (i) is an important layer of x-ray film.
- (ii) step is omitted in automatic film processing.
- (iii) Abnormal rhythm of heart beat is called as
- (iv) wave indicates the repolarization of ventricles.
- (v) X-rays were discovered by
- (vi) As the temperature of developer increases, developing time
- (vii) wave is rarely seen on ECG.
- (viii) CT scan was first invented by
- (ix) is commonly used phosphor in intensifying screen.
- (x) film is used in mammography.
- (xi) CT numbers may be referred as unit numbers.
- (xii) X-rays travel in line.

(b) Match the pairs :—

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' A ' Group**' B ' Group**

- | | |
|-------------------|--|
| (i) Replenisher | (a) Heart beat less than 60 minute |
| (ii) Fixer | (b) Heart beat greater than 100 minute |
| (iii) Tachycardia | (c) No bromides |
| (iv) Bradycardia | (d) Activator |
| (v) Developer | (e) Hardner. |

(c) State the long form (any *five*) :—

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- (i) A. V. node
- (ii) S. A. node
- (iii) I.H.D.
- (iv) C.T. scan
- (v) M.I.
- (vi) C.T.C.

[turn over

2. Answer any *two* of the following :— 16
- (a) How patient is prepared for CT scan ?
 - (b) Explain the genesis of ECG waves.
 - (c) How X-rays are produced in X-ray tube ?
 - (d) Write about the building essentials of darkroom.
3. Answer any *two* of the following :— 16
- (a) Write the importance of X-ray film record keeping.
 - (b) What are the purposes of fixing X-ray film ?
 - (c) What is gray scale imaging in CT ?
 - (d) Write about normal ECG waves.
4. Answer any *two* of the following in brief :— 16
- (a) How will you take care of cassettes ?
 - (b) Write the procedure of loading and unloading in cassette.
 - (c) What are the contents of developer ? Write function of each.
 - (d) What information we can get from ECG ?
5. Write short notes (any *four*) :— 16
- (a) Emergency drug box.
 - (b) Contrast medium used in CT scan.
 - (c) CT scan of thorax
 - (d) ECG leads.
 - (e) Types of X-ray films.
6. Answer any *two* of the following :— 16
- (a) What are the indications of ECG recording ?
 - (b) What are the duties of X-ray technician ?
 - (c) Write the procedure of mounting of screen onto the cassette.
 - (d) What are the contents of abdomen ?
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