



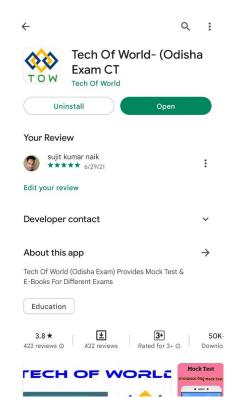


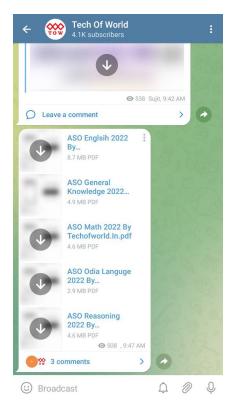






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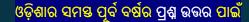
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DO NOT OPEN THE SEAL OF THE QUESTION BOOKLET UNTIL YOU ARE ASKED TO DO SO

Question Booklet Series Code: D

Question Book Serial No: 200048

Time Allowed: 02.00 hours

RDG-2020

Maximum Marks: 100

ନିର୍ଦ୍ଧାରିତ ସମୟ : 02.00 ଘଣ୍ଟା

ସର୍ବାଧିକ ମାର୍କ: 100

Read the following instructions carefully before you begin to answer the questions.

This Booklet contains 100 objective type questions with multiple choice answers in three Parts.

Each question carries one mark.

There shall be negative marking @0.25 mark per question for wrong/multiple answers.

Part-I contains 10 questions on Arithmetic which are available in both English and Odia version. In the

case of discrepancy in meaning, the English version will prevail.

Part-II contains 05 questions on English.

Part-III contains 85 questions on Medical Radiation Technology which includes questions based on practical skill to assess the practical skill of the candidates.

All questions are compulsory.

ପ୍ରଶ୍ୱଗୃତିକର ଉଉର କରିବାପୂର୍ବରୁ ନିମ୍ନ ପ୍ରଦର ନିର୍ଦ୍ଦେଶାବଳୀ ଯତ୍ନସହକାରେ ପଢନ୍ତୁ। ଏହି ପୁଷ୍ଟିକାରେ ତିନିଗୋଟି ଭାଗରେ 100ଟି ବିବିଧ ଉଉର ଯୁକ୍ତ ସଂକ୍ଷିପ୍ତ ପୁଶ୍ୱ ରହିଛି । ପତ୍ୟେକ ପୁଶ୍ୱର ସଠିକ ଉତ୍ତର ପାଇଁ ଏକ ମାର୍କ ରହିଛି।

ଭୁଲ ଉଉର ଏବଂ ଏକାଧିକ ଉଉର ପାଇଁ ପ୍ରଶ୍ମ ପିଛା 0.25 ମାର୍କ ଲେଖାଏଁ ବିୟୋଗ କରାଯିବ ।

<mark>ପ୍ରଥମ ଭାଗରେ</mark> ଗଣିତର[ି] 10ଟି ପ୍ରଶ୍ମ ରହିଛି ଯେଉଁଥିରେ ଇଂରାଚ୍ଚୀ ରୁ ଓଡ଼ିଆକୁ ଭାଷାତ୍ତର ଉପଲ**ତ୍ତ** । ଅର୍ଥବୋଧରେ କିଛି ତାରତମ୍ୟ ଥିଲେ ଇଂରାଚ୍ଚୀ ଭାଷା ବଳବଉର ରହିବ ।

ହିତୀୟ ଭାଗରେ ଇଂରାଜୀରେ 05ଟି ପ୍ରଶ୍ର ରହିଛି ।

<mark>ତୃତୀୟ ଭାଗରେ Medical Radiation Technology</mark> ବିଷୟରେ (practical skill based ପ୍ରଶ୍ନ ସହିତ) 85ଟି ପ୍ରଶ୍ନ ରହିଛି। ସମୟ ପ୍ରଶ୍ନ ବାଧ୍ୟତାମୂଳକ ।

INSTRUCTIONS FOR CANDIDATES

- 1. Before answering any question, check the Booklet and ensure that it contains 16 pages and no page is missing, mutilated or repeated. In case of any such defect, get it replaced immediately
- 2. The Invigilator shall supply you the blank Two Part carbonless OMR Answer Sheet separately. Enter your Roll Number, Question Booklet Serial Number and Question Booklet Series Code and darken the corresponding circle/oval provided on the Answer Sheet at the appropriate space carefully by using only black/blue ball point pen. You must write the name, date and centre of examination and put your full signature in the appropriate space provided therein before answering any question.
- 3. A machine will read the coded information furnished by you in the OMR Answer Sheet. If the information so furnished by you are incomplete or different from what you have given in the application form, you shall be awarded Zero mark.
- Answer must be given by completely blackening one of the four circles/ovals representing the most appropriate answer given on the Answer Sheet corresponding to the relevant question by using only Black/Blue ball point pen. Answers not shown by properly darkening in black/blue ball point pen, no marks shall be awarded.
- 5. No Rough work should be done on the OMR Answer Sheet. Space
- for rough work has been provided in the Question Booklet itself.

 6. Correcting fluid, eraser, blade, books, textual material, scripts, notes/loose paper, calculator, docupen, slide rules, log tables, electronic watches, smart watch, cell phone, pager, other electrical/electronic devices etc. are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he/she shall be expelled from the examination without any enquiry as to whether the same was/were used by the candidate or not.
- 7. These instructions must be complied with fully, failing which your Answer Sheet shall not be evaluated and Zero marks will be
- 8. After the examination is over, candidates must ensure to fold the OMR Answer Sheet at the perforation and separate the Original Copy and Candidate's Copy of the Two Part OMR Answer Sheet in the presence of the Invigilator and handover the Original Copy to the Invigilator. The Candidate's Copy of the OMR Answer sheet may be taken by the candidate. Failure to hand over the original copy of the OMR Answer Sheet to the Invigilator before leaving the examination hall/room shall make the candidate liable for penal
- 9. Failure to comply with any of the above instructions shall be considered as adopting unfair means and action as deemed proper

ପାର୍ଥୀମାନଙ୍କ ପାଇଁ ନିର୍ଦ୍ଦେଶାବଳୀ

- ୧.କୌଣସି ପ୍ରଶ୍നର ଭରରଦେବା ପୂର୍ବରୁ ପୃଷିକାଟିକୁ ତନଖ୍ ଦେଖନ୍ତୁ କି ଏଥିରେ ୧୬ ପୃଷା ଅଛି ଓ କୌଣସି ପୃଷା ନଷ, ପୁନରାବୃତ୍ତି କିମ୍ବା ଛାଡି ହୋଇନାହିଁ। କୌଣସି ତ୍ରୁଟିଥିଲେ ତାକୁ ତୁରତ୍ତ ବଦଳ କରାଇନିଅନ୍ତୁ।
- ନିରୀକ୍ଷକ ଆପଣଙ୍କୁ ପୃଥକଭାବେ ଓଏମ୍ଆର୍ ଉତ୍ତରଫର୍ଦ୍ଦ (Two Part carbonless OMR Answer Sheet) ଦେବେ । ଭରରଫର୍ଦ୍ଦର ଯଥା ସାନରେ ଆପଣଙ୍କ ରୋଲନମ୍ବର, ପ୍ରଶ୍ୱପୃଷ୍ତିକା କ୍ରମିକନମ୍ବର ଏବଂ ପ୍ରଶ୍ୱପୃଷ୍ତିକା ସିରିଜ କୋଡ୍ ଉଲ୍ଲେଖ କରନ୍ତୁ ଏବଂ ତା ପାଇଁ ଉଦ୍ଧିଷ୍ଟ ବୃର / ଅଣ୍ଡାକୃତିକୁ କେବଳ କଳା / ନୀଳ କାଳିର ବଲପଏଷ କଲମ ହାରା କାଳି କରନ୍ତୁ । ସେଠାରେ ପ୍ରଦର ନିର୍ଦ୍ଦିଷ ସାନରେ ପରୀକ୍ଷାର ନାମ, ତାରିଖ ଓ ପରୀକ୍ଷା କେନ୍ଦ୍ରର ନାମ ନିର୍ଣ୍ଣିତ ଭାବେ ଲେଖନ୍ତୁ ଏବଂ କୌଣସି ପ୍ରଶ୍ୱର ଉତ୍ତରଦେବ। ଆଗରୁ ଯଥାସ୍ଥାନରେ ଆପଣଙ୍କ ପୁରା ଦଞ୍ଜଖତ କରନ୍ତୁ ।
- ୩. ଓଏମ୍ଆର୍ ଉରରଫର୍ଦ୍ଦରେ ଆପଣ ଉଲେଖ କରିଥିବା ସାଙ୍କେତିକ ତଥ୍ୟକୁ ଗୋଟିଏ ଯନ୍ତ ପଢିବ । ତେଣୁ ଆପଣଙ୍କର ଏହି ପ୍ରଦତ୍ତ ତଥ୍ୟ ଯଦି ଦରଖାୟ ଫର୍ମରେ ଦିଆଯାଇଥିବା ତଥ୍ୟଠାରୁ ପୃଥକ କିମ୍ବା ଅସମ୍ପୂର୍ଣ ହୁଏ, ଆପଣଙ୍କୁ ଶୂନ୍ୟ ମାର୍କ ପ୍ରଦାନ କରାଯିବ ।
- ୪. ଉଉରଫର୍ଦ୍ଦରେ ଥିବା ସମ୍ପ୍ର ପ୍ରଶ୍ୱର ସଠିକ୍ ଉଉର ପାଇଁ ଉଦ୍ଦିଷ୍ଟ ବୃଭ / ଅଣ୍ଡାକୃତିକୂ କେବଳ କଳା / ନୀଳ କାଳିର ବଲପଏଣ କଲମ ହାରା କାଳିକରି ଉତ୍ତର ଦିଅନ୍ତୁ । କଳା ନୀଳବଲ ପଏଷ କଲମ ହାରା ସଠିକ୍ ଭାବେ କାଳି କରାଯାଇନଥିବା ଉତ୍ତର ପାଇଁ କୌଣସି ମାର୍କ ଦିଆଯିବ ନାହିଁ ।
- ୫. ଓଏମ୍ଆର୍ ଭରରଫର୍ଦ୍ଦରେ ରଫ୍ କାମ କରନ୍ତୁ ନାହିଁ । ପ୍ରଶ୍ୱପୃଥିକାରେ ରଫ୍ କାମପାଇଁ ଖାଲିକାଗା ଦିଆଯାଇଅଛି ।
- ୬.କୌଣସି ଧଉଳାଇବା ରଙ୍ଗ, ରବର, ବ୍ଲେଡ, ବହି, ଛାପା / ହାଡଲେଖାକାଗଜ, କାଲକୁଲେଟର, ଡକୁପେନ, ସ୍ଲାଇଡ ରୁଲ, ଲଗ ଟେବୁଲ, ଇଲେକଟ୍ରୋନିକ ଘଣ୍ଟା, ସ୍ମାର୍ଟ ଘଣ୍ଟା,ମୋବାଇଲ ଫୋନ, ପେଢର, ଅନ୍ୟ ବୈଦ୍ୟୁତିକ/ଇଲେକଟ୍ରୋନିକ ଉପକରଣାଦିକୁ ଆପଣ ପରୀକ୍ଷା ହଲ / କୋଠରୀ ଭିତରକୁ ନେଇ ପାରିବେ ନାହିଁ । ଯଦି ଉପରୋକ୍ତ କୌଣସି ଉପକରଣ ଆପଣଙ୍କ ପାଖରୁ ଉଦ୍ଧାର କରାଯାଏ, ବ୍ୟବହାର କରିଥାନ୍ତୁ ବା ନ କରିଥାନ୍ତୁ, ବିନା ଡଦନ୍ତରେ ଆପଣଙ୍କୁ ତୁରନ୍ତ ପରୀକ୍ଷାରୁ ବାସନ୍ଦ କରାଯିବ ।
- ୭. ଏହି ନିର୍ଦ୍ଦେଶାବଳୀକୁ ସଂପୂର୍ଶ୍ୱଭାବେ ନିଷ୍ଟିତ ପାଳନକରନ୍ତୁ, ଅନ୍ୟଥା ଆପଣଙ୍କ ଉରରପତ୍ରର ମୂଲ୍ୟାୟନ କରାଯିବ ନାହିଁ ଏବଂ ଶୂନ୍ୟ ମାର୍କ ପ୍ରଦାନ କରାଯିବ ।
- ୮. ପରୀକ୍ଷା ସରିବା ପରେ ପରୀକ୍ଷା ହଲ ଛାଡିବା ପୂର୍ବରୁ ଆପଣଙ୍କ Two Part carbonless OMR Answer Sheet ଭରରଫର୍ଦ୍ଦର Original Copy ଓ Candidate's Copy ନିରୀକ୍ଷକଙ୍କ ଉପଛିତିରେ ଚିହ୍ନ ଥିବା ସାନରେ ସଠିକ ଭାବେ ଭାଙ୍ଗ କରି ଚିରି ପୃଥକ କରନ୍ତୁ ଓ Original Copyଟିକୁ ନିରୀକ୍ଷକଙ୍କୁ ହୟାନ୍ତର କରନ୍ତୁ । ଅନ୍ୟଥା ପରୀକ୍ଷାର୍ଥୀ ଆଇନାନୁଯାୟୀ ବଣ୍ଟନୀୟ ହେବେ । ଓଏମ୍ଆର୍ ଭରରଫର୍ଦ୍ଦର ପ୍ରାର୍ଥୀଙ୍କ ପାଇଁ ଉଦ୍ଦିଷ୍ଟଥିବା କପିଟିକୁ (Candidate's Copy) ପରୀକ୍ଷାର୍ଥୀ ନେଇଯିବେ ।
- ୯. ଉପରୋକ୍ତ ନିର୍ଦ୍ଦେଶାବଳୀରୁ କୌଣସି ନିର୍ଦ୍ଦେଶର ଅନୁପାଳନରେ ଖିଲାପକଲେ ଏହାକୁ ଅସତ ଉପାୟ ଅବଲମ୍ବନ କରିଛନ୍ତି ବୋଲି ବିବେଚନା କରାଯିବ ଏବଂ ପରୀକ୍ଷାର୍ଥୀଙ୍କ ବିରୁଦ୍ଧରେ ଯଥୋଚିତ କାର୍ଯ୍ୟ। ନୁଷାନ ଗ୍ରହଣ କରାଯିବ ।

DO NOT OPEN THE SEAL OF THE QUESTION BOOKLET UNTIL YOU ARE ASKED TO DO SO









Part-I ARITHMETIC: 10 Marks

Instructions: Each question under this section carries **One** mark. Please read the instructions carefully and answer the questions by selecting the most appropriate answer out of the multiple answers given below each as A, B, C and D.

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers.

	secutive numbers is 97. W ହାରାହାରି 97 ଅଟେ, ତେବେ କ୍ଷୁଦ୍ର	hat is the smallest of these nur ହମ ସଂଖ୍ୟାଟି କେତେ ଅଟେ ?	mbers?
(A) 95	(B) 96	(C) 98	(D) 99
2. Find the value of $\sqrt[2]{980}$	1?	to HELIOPE	
$\sqrt[2]{9801}$ ର ମୂଲ୍ୟ କେତେ ?	5-10-10-10-10-10-10-10-10-10-10-10-10-10-		and the same of the same
(A) 69	(B) 79	(C) 89	(D) 99
		rs at simple interest. What is t	
•	The second secon	, ତେବେ ବାର୍ଷିକ ସରଳ ସୁଧର ହାର ଓ	
(A) 5%	(B) 7.5%	(C) 10%	(D) 15%
କୌଣସି ମୂଳଧନ X, Y ଓ Z	ମଧ୍ୟରେ 4 : 5 : 6 ଅନୁପାତରେ	ଭାଗ କରିବାକୁ ଅଛି । ଯଦି Y 1500	gets Rs 1500, then what is Z's share? ଟଙ୍କା ପାଏ ତେବେ Z ର ଭାଗ କେତେ ହେବ ?
(A) Rs 4500	(B) Rs 1800	(C) Rs 1500	(D) Rs 1200
5. $40 \div 2 \sqrt{5} = ?$			
40 ÷ 2 √5 ର ମୂଲ୍ୟ କେତେ	?		
(A) 2 √5	(B) 4 √5	(C) 5 √2	(D) 5 √5
> V			
	s 900 and sold for Rs 1200		Day of Market Market Co. 10 April 12 A
		କ୍ରି କରାଯାଏ, ତେବେ ଶତକଡା କେତେ	
(A) 30%	(B) $30\frac{1}{3}\%$	(C) 33%	(D) $33\frac{1}{3}\%$
7. The greatest 2 digit num	nber which is divisible by	10 12 and 15 2	
	ସଂଖ୍ୟା 10, 12 ଓ 15 ହାରା ବି		
(A) 900	(B) 960	(C) 990	(D) 999
8. What is the area of a cir	rcle whose circumference i	s 44 cm? (Use $\pi = \frac{22}{7}$).	
	cm ହୁଏ, ତେବେ ଏହାର ଷେତ୍ରଫଳ		
(A) 44 cm ²	(B) 88 cm ²	(C) 154 cm^2	(D) 616 cm ²









ଓଡ଼ିଶାର ସମଥ ପୂର୍ବ ବର୍ଷର ପ୍ରଶ୍ନ ଭଭର ପାଇଁ

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0			200010101	I UBC TO
	c = 5 : 6 then find $a : c$?			
	c = 5 : 6 ହୁଏ, ତେବେ a : c କେ			
(A) 3:6	(B) 4:5	(C) 5:8	(D) 8:5	
10. Which of the followi	ng is not a perfect cube of eve କେଉଁ ସଂଖ୍ୟାଟି ଯୁଗୁ ସଂଖ୍ୟାର ପୂର୍ଣ୍ଣଘନ	n numbers?		
(A) 343	(B) 512	(C) 1000	(D) 1720	
(11) 545	(B) 312	(C) 1000	(D) 1728	
		Part-II		
	EN	GLISH: 05 Marks	A TOTAL CONTRACTOR	
answers given b There shall be i 11. A fair little girl sat un	elow each as A, B, C and negative marking @ 0.25	d D. 5 mark per question for t	oriate answer out of the work	, m p
(A) verb	(B) adverb	(C) adjective	(D) preposition	
	can never meet each other. correct spelling of the word)	As and a subsect of the	to provide all all any more to	
(A) paralel	(B) parrallel	(C) parallel	(D) paralell	
			Y	
13. What is the plural of '	calf'?	BY		
(A) calfs	(B) calfes	(C) calves	(D) calvs	
A 0		Y		
14. I called hi	m at his office.			
	appropriate preposition)			di-TA-

(C) in

(C) gave in

(D) after

(D) gave off





(A) at

(A) gave up





15. The chief guest distributed the prizes to the winners.

(Find out the correct phrasal verb of the underlined word)

(B) on

(B) gave away

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Part-III Medical Radiation Technology: 85 Marks

Instructions: Each question under this section carries **One** mark. Please read the instructions carefully and answer the questions by selecting the most appropriate answer out of the multiple answers given below each as A, B, C and D.

There shall be negative marking @ 0.25 mark per question for wrong/multiple answers.

There shall be negative	e marking @ 0.23 mark per q	uestion for wrong/maniple a	
16. Why is contrast used in C	Γ scan?		
(A) To suppress particular tissues(C) To ensure correct tissue is being imaged		(B) To enhance a particu (D) To reduce bone inter	lar tissue ference
17. Which of the following ag	gents should not be used as an	agent for fluoroscopy?	
(A) Silver	(B) Bismuth	(C) Thoria	(D) Tungsten
18. Which of the following in	dicates a partial obstruction o	f the larynx or trachea and de	mands immediate attention?
(A) rhonchi	(B) pleural rub	(C) stridor	(D) mediastinal crunch
19. Best mode of imaging for	suspected uric acid calculi is	or select as some	
(A) Plain film of abdom (C) Intravenous pyelogra		(B) Ultrasonography (D) Radionuclides.	with the company of t
20. Threshold radiation dose	for haematological syndrome	is?	
(A) 1 Gyw	(B) 5 Gy	(C) 20 Gy	(D) 1 Gy
21. Radiation treatment is giv	en for the following non-mali	gnant brain condition	
(A) Astrocytoma	(B) Encephalitis	(C) Glioblastoma	(D) Craniopharyngioma
AVI		A HELL - N.	
22. Laminated appearance of	X-ray is suggestive of		
(A) Ewing's sarcoma	(B) Osteoid osteoma	(C) Osteoclastoma	(D) Multiple myeloma
23. For which of these areas of	can the ultrasound be taken for	r an infant but not for an adul	t?
(A) Cranium	(B) Chest	(C) Arms	(D) Legs
24. What part of the body mo	stly scanned by fMRI?		
(A) Brain	(B) Heart	(C) Liver	(D) Kidneys









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nge of the sound used for ultra	sound diathermy?	
(B) $0.7 - 3.3 \text{ MHz}$	(C) $3.3 - 5$ MHz	(D) $5 - 15 \text{ MHz}$
ECT so unique when it comes	to nuclear imaging?	
bolic functions	(B) Do not require X-Rays (D) They give more details	s about the imaged organ/tiss
ed energy actually utilized for	taking an X-Ray?	A SELECTION STREET AT E
(B) 1%	(C) 10%	(D) 100%
est diagnosed by	the state of the state of) A second
(B) Enzyme estimation	(C) Radionucleus	(D) Blood gas analysis
g the heart is	net insiely (n	
(B) Curvilinear Probe	(C) Phase Array Probe	(D) Endocavitary Probe
		Telefa film of spilomes Teleface page passegue for a secondary
	(D) Pair Production and D	
rities of the human heart takes	place	W (1)
vous system	(B) intrinsically (D) by the brain stem	
valuating blood flow is	Y	
phy.	(B) venography.(D) cardiac catheterization	(N-X 30 Happinsages to demonstrate 2 gold 65) A
order in PA Chest X-ray is sug	ggestive of	
(B) Left upper lobe lesion	(C) Left hilar lymph nodes	(D) Left lower lobe lesion
site for the appendix found at	appendicectomy?	
	(B) reto-caecal (D) anterior to terminal ile	um
	(B) 0.7 – 3.3 MHz ECT so unique when it comes bolic functions ed energy actually utilized for (B) 1% est diagnosed by (B) Enzyme estimation g the heart is (B) Curvilinear Probe air of scattering is important for oduction electric rities of the human heart takes wous system evaluating blood flow is phy. order in PA Chest X-ray is suggested to the state of the phy.	ECT so unique when it comes to nuclear imaging? (B) Do not require X-Rays (D) They give more details (E)









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35.	Gating is a newer technique	used in the treatment of		
	(A) Ca rectum	(B) Ca tongue	(C) Ca lung	(D) Ca ovary
36.	Radiation treatment is given	for the following non-malign	nant brain condition	A.S. E. S. S. S. S. S. S.
	(A) Astrocytoma	(B) Encephalitis	(C) Glioblastoma	(D) Craniopharyngioma
37.	Frontotemporal Dementia br	rain scan shows a	mand to	
	(A) growing brain	(B) shrinking brain	(C) brain with lesions	(D) brain with a tumour
38.	The maximum volume of air	contained in the lung by a fi	ull forced inhalation is called_	
	(A) Tidal volume	(B) Vital capacity	(C) Ventilation rate	(D) Total lung capacity
39.	'H' shaped vertebra is seen i	n		
	(A) Phenylketonuria	(B) Sickle cell anemia	(C) Hemangioma	(D) Osteoporosis
40.	Which interaction of X-rays	s is the basis of radiographic	contrast between bone and sof	t tissues?
	(A) Photoelectric effect	(B) Contrast scattering	(C) Compton scattering	(D) Pair production
41.	Which of the following subs	stances is activated by passag	ge through the pulmonary circu	llation?
	(A) Bradykinin	(B) Serotonin	(C) Noradrenaline	(D) Angiotensin 1
42.	Bone marrow transplant rec cause of this is	ipient patient developed ches	t infection. ON chest Xray Tr	ee on Bud appearance. The
1	(A) klebsiella	(B) pneumocystis	(C) TB	(D) PB
43.	The ureter passes deep to the	e:		
	(A) femoral nerve	(B) gonadal artery	(C) psoas muscle	(D) genitofemoral nerve
44.	A piezoelectric crystal is use	ed to produce the ultrasound	waves. What kind of ultrasour	nd is produced?
	(A) Pressure wave ultrasource (C) Sound wave ultrasource		(B) Electrical wave ultraso (D) Simple ultrasound	und
45.	Sequestration lung is best di	agnosed by		
	(A) C.T. Scan	(B) M.R.I.	(C) Barium swallow	(D) Angiography









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46. In a postero-anterio	or view (PA view) of chest	And State of the Control	2000.07.07.08
(C) Appears more	ow is magnified jected over upper lobes diffusely opaque if overpenetrat 8-10 posterior ribs are seen abov	ed e diaphragm	
47. In Cobalt-60 machi	ne, which ray is used for external	I beam radiotherapy?	(III) - sentente (II)
(A) Alpha ray	(B) Beta ray	(C) Gamma ray	(D) Protons
48. Most common histo	pathology in head and neck carc	inoma is	Wightenson A
most common mate	pathology in head and neek care	monta is	
(A) Squamous cell (C) Lymphoma	l carcinoma	(B) Adenocarcinoma (D) Melanoma	one navi saplies militare s
49. Half-line of Cobalt-	60 is	10	
(A) 6.26 years	(B) 5.67 years	(C) 5.26 years	(D) 6.67 years
(D) 75% of ventila bodies.	d aortic bodies detect increases in tor response is regulated by cher rculosis, frequent finding on plai	noreceptors in the CSF and 25	s in PaO ₂ . % by the carotid and aortic
(A) Mass	(B) Ileus	(C) Calcification	(D) Psoas abscess
52. The smallest unit in	the reconstruction/projection of a	an MRI image is called as	Str. 4 See and Free
(A) pixel	(B) voxel	(C) binary unit	(D) dot
53. Which of the follow	ing factors decreases the heart ra	te?	
(A) parasympatheti (C) release of acety	c stimulation	(B) increase level of Na (D) all of the above	a and k+ ions
54. The X-Ray is record	ed on a plate coated with		
(A) Gold Halide	(B) Silver Halide	(C) Copper Halide	(D) Iron Halide
55. Which of the followi	ng radiations are used for imagin	g purposes?	

(C) gamma

(D) delta





(A) alpha





(B) beta

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56	A patient presents with a de The most likely internal inj	eep stab wound high up in th ury is?	ne costovertebral angle beneath	the 12th rib on the left side.
	(A) laceration of the infra (C) puncture of the 3 rd par		(B) laceration of the right (D) pneumothorax of the l	
57.	· When bones show a 'Bone	within bone' appearance thi	s is indicative of	
	(A) Sickle cell anemia (C) Osteopetrosis		(B) Bone infarction (D) Chronic myelogenous	leukaemia
58.	Orthopantomogram is taken	to rule out lesion in		M Lingue Real
	(A) Mandible	(B) Maxilla	(C) Facial bone	(D) Skull
59.	During angiocardiography	the mitral valve is best visua	lized in the	
	(A) Frontal view (C) Right anterior oblique	view	(B) Lateral view (D) None of the above.	
60.	Which of the following is no	ot a sesamoid bone		
	(A) Fabella	(B) os trigonum	(C) Patella	(D) Pisiform
61.	When an abdominal ultrasor	and is done, why is it advise	d to have a full bladder?	
	(A) To have a good acoust (C) To lower impedance	ic window	(B) To increase the water c (D) to allow for better prop	
62.	In order to visualize the flow	of blood in the renal arterie	es, what process is done with C	T?
1	(A) CT Angioplasty	(B) CT Angiography	(C) Simple CT	(D) CT Cardiography
63.	The following radiation field	ds are used in the treatment of	of lymphoma EXCEPT	
	(A) Mantle field	(B) Inverted Y field	(C) Dog leg field	(D) Pencil beam field
64.	Pericardial calcification is c	aused by all except		
	(A) Radiotherapy to the mo (C) Anticoagulant therapy	ediastinum	(B) Methysergide therapy (D) Dermatomyositis	
65.	What is the oxygen effect?			
	(B) A positive effect of oxy	xygen in presence of theraped ygen in absence of therapeut oxygen in presence of theraped ring radiation treatment	ic radiations	









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66. Which mode is a	used for cardiac	c imaging?		
(A) A - Mode		(B) B - Mode	(C) M - Mode	(D) 3D - Mode
67. Which of the fol	lowing cells ha	ve a low resistance to	radiations?	a lo tag 46 mil to sinta co
(B) Megakaryo (C) Lymphocyt	cytes, embryo, tes, Spermatogo	onia, Erythroblasts, In pancreatic cells, Intes onia, hepatic cells, nep , cardiac cells, Intestir	stinal crypt cells ohrons	politica access a tropic comes, confi- cación il paradello de la consecución de la conficiencia.
68. Spirometry can i	neasure all exc	ept		10
(A) IC		(B) ERV	(C) FRC	(D) TV
69. The underlying p	orinciple of fM	RI is that	_	
(B) cerebral block(C) certain part	ood flow and no	euronal activity are no euronal activity are co eceive more blood are more active than of	nnected	e an vroetgalitezoreta zone waiv turrori warv schilip aziakin Migas ()
70. Investigation of	choice in Trau	matic paraplegia is	ocula lacenua	
(A) MRI	THE CONTRACT OF THE CONTRACT O	(B) CT Scan	(C) Myelography	(D) Spine X-ray
71. In the cardiovaso	cular system, w	hich is more affected	by the radiations?	navetic landmonths on coal
(A) Capillaries	X	B) Artery	(C) Vein	(D) Cardiac Muscles
72. Beyond what do	se is the cerebr	al system shows signs	of failure?	of township of their or reme
(A) 25 – 200 ra	ad ((B) 200 – 600 rad	(C) 600 – 1000 rad	(D) > 1000 rad
73. Best imaging mo	odality to diagn	ose liver mass is		
(A) Plain film		(B) Angiography	(C) C. T. Scan	(D) Nuclear Scan
74. Regarding venti	lation			
(C) FEV1 is de	creased much r pendent on exp	more than FVC in pati piratory effort	ents with lung fibrosis	A) Radiothroughputtle metrocol
75. The total number	r of alveoli pre	sent in the human lung	gs is estimated to be around_	Marian I de
(A) 1 billion		(B) 800 million	(C) 500 million	(D) 1500 million









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76. Up to what intensity of radi	ation is used for mammograp	ohy?	200040 / 10 / 1 age 1.
(A) <10keV	(B) <20keV	(C) <30keV	(D) <40keV
77. Which of the following nee	ds the longest exposure for a	n X-Ray image?	
(A) Thoracic	(B) Abdomen	(C) Spine	(D) Pelvis
78. All the following are veins	which drain the stomach EXO	CEPT:	
(A) Gastroepiploic	(B) Gastroduodenal	(C) Right gastric	(D) Left gastric
79. The detector of PET is made	e of	1	A second of the
(A) Silver	(B) Gadolinium	(C) Tungsten	(D) Lead
80. Gas in biliary tract is not du	ne to		
(A) Perforated gastric ulce (C) Biliary surgery	er	(B) Necrotizing enterocol (D) Post-gastrectomy	itis
81. The umbilical cord contains			
(A) 2 arteries and 2 veins	(B) 1 artery and 2 veins	(C) 1 artery and 1 vein	(D) 2 arteries and 1 vein
82. Aorta pierces the diaphragm	at the level of		
(A) T8	(B) T12	(C) T10	(D) C6
83. The phenomenon in which l	ight continues to emit for son	netime even after the radiation	n exposure has ended is called
(A) Fluorescence	(B) Quantum mottle	(C) Phosphorescence	(D) None
84. The wave velocity of ultraso What is the density of the so		s and the impedance offered	by it is $1.63 \times 10^6 \text{ kg/m}^2\text{s}$.
(A) 0.1058441 kg/m ³	(B) 10.58441 kg/m ³	(C) 1058.441 kg/m ³	(D) 105844.1 kg/m ³
85. Saw tooth appearance on ab	dominal X-ray is seen in		
(A) Prediverticular state	(B) Multiple polyposis	(C) Spastic colon	(D) Ischemic enteritis
86. Which of the following mac	hines is often placed together	with an X-Ray machine?	
(A) Endoscopy	(B) Ultrasound	(C) Fluoroscopy	(D) C - Arm









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87. What radiations occur when	the electrons are used in radio	therapy?	
(A) Ionizing Radiations(C) Bremsstrahlung Radiat	ion	(B) Gamma Rays (D) Infrared Rays	
88. Widening of the C loop in X	C-ray is diagnostic of		
(A) Chronic pancreatitis (C) Periampullary carcinoma		(B) Carcinoma head of (D) Calculi in the ampu	
89. Uterus and fallopian tubes a	re assessed by	Land of the street, in 27 ()	Have replicated to the second state of the second s
(A) Micturating cystoureth(C) Hysterosalpingography		(B) Intravenous urethrography (D) Myelography	
90. Electronic Portal Imaging D	evice (EPID) in radiotherapy	s used for	SV S
(A) Treatment planning	(B) Treatment verification	(C) CT simulation	(D) Conversional simulation
91. What is the main function of	f myoglobin?	1	
(A) extensibility	(B) elasticity	(C) binds O ₂ together	(D) both (A) and (C)
92. Echoencephalography is mo	est useful for detecting	antes Clinia may	enistado lavo la citado a significa a significa de como Citado de
(A) Ventricular dilatation	(B) Midline shift	(C) Epilepsy	(D) Vascular lesions
93. Alveolar ventilation in a ma	le with a respiratory rate of 10	/min and tidal volume of	600 ml is
(A) 1000ml	(B) 1750ml	(C) 3000ml.	(D) 4500ml
94. SI unit of dose equivalent is		some Author of sounding	
(A) Roentgens	(B) Gray	(C) Rad	(D) Sievert
95. A muscle with double inner	vation among the following is		
(A) Flexor digitorum profi (C) Pronator quadratus	undus	(B) Flexor pollicis longu (D) Palmaris longus	association of
96. What surgical functions are	performed by the diathermy m	nachine?	
(A) cutting, coagulation, fu	llguration	(B) cutting, fulguration (D) coagulation, fulgura	ation









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97. What property of sound wa	ives acts like the principle of	ultrasound?	
(A) Reflection and Refraction (C) Refraction only		(B) Reflection only(D) Propagation	
98. What is the main mode of h	neat transfer in rotating anode	e X-ray tube?	
(A) Conduction (B) Convention		(C) Radiation	(D) All the above
99. A patient with high fever wi	ill most likely demonstrate th	ne sign of	
(A) Decreased sweating	(B) Increased pulse rate	(C) Increased urinary output	(D) Increased appetite
100. Where are the lungs located	?	107	
(A) Inferior to the trachea(C) anterior to the esophage	gus	(B) Mediastinum of thoracio (D) Abdominal region	cavity















