Printed Pages:17 Sr. No.

CBAT-PC-PNDT-2022-SET-1-C

CANDIDATES MUST READ THE FOLLOWING INFORMATION / INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

(Signature of Invigilator)

- 1. All the candidates must return the test booklet as well as answer-sheet to the Invigilator concerned before leaving the Examination Hall. If any candidate leaves the examination hall without handing over the test booklet / answer sheet to the Invigilator, a case of use of unfair means/ misbehavior will be registered against him/ her in addition to lodging an FIR with the Police. The answer-sheet of such a candidate will not be evaluated.
- 2. The candidates must not do any rough work or writing work in the answer-sheet (OMR Sheet). All rough work is to be done in the test booklet.
- 3. Candidates will be required to darken the circle by using **blue/ black ball point pen** only.
- 4. Books, papers, slide rule, log table, cellular phone, pager, calculator or any other electronic gadget etc. are not allowed in the Examination Hall.
- 5. BEFORE ANSWERING THE QUESTIONS, THE CANDIDATES SHOULD ENSURE THAT THEY HAVE BEEN SUPPLIED THE CORRECT AND COMPLETE TEST BOOKLET CONTAINING (SECTION A: 1 TO 50 MCQs AND SECTION-B: 1 TO 10 SHORT QUESTIONS), COMPLAINTS REGARDING MISPRINT ETC. WILL NOT BE ENTERTAINED 10 MINUTES AFTER THE EXAMINATION GETS STARTED.

SECTION-A

1.	Which of the following is a cause of Gall i. Hypoalbuminemia iii. Acute hepatitis	bladder wall thickening? ii. Congestive heart failure iv. Pancreatitis
	A. i, ii and iii C. I and iii	B. ii, iii, and iv D. i, ii, iii and iv
2.	Which of the following conditions are as	ssociated with severe fatty changes in
	the pancreas? i. Diabetes iii. Obesity	ii. Cystic fibrosis iv. Old age
	A. i, ii and iii C. I and iii	B. ii, iii and iv D. i, ii, iii and iv
3.	Which of the following is the most compatients with chronic pancreatitis?	mon vessel which gets thrombosed in
	A. Portal vein C. Hepatic vein	B. Mesenteric vein D. Splenic vein
4.	Cortical nephrocalcinosis occurs due to A. Acute cortical necrosis C. Vitamin D excess	B. Sarcoidosis D. Wilsons disease
E		
5.	Choose the correct statement regarding A. Classic appearance as hypoechoic not. B. All the cancers are detectable on TRI C. Most cancers are seen in the transition D. None of the above	odule in the peripheral zone. US
6.	In normal postmenopausal women, the A. < than 5 mm C. 8-10 mm	endometrial thickness measures B. 5-8 mm D. 10-12 mm
7.	On ultrasound of ovaries in child bearing debris level are characteristically seen in	
	A. Corpus luteal cyst C. Polycystic ovaries	B. Follicular cyst D. Theca lutein cyst
8.	Which of the following ovarian lesion reflective nodule in the wall of a cystic star. Dermoid C. Ovarian Endometrioma	
9.	On ultrasound of ovaries, the presence	· ·
	mass with thin septations and no interna A. Sex cord stromal tumour C. Endometrioma	

10.	Which of the following criteria on ultrafailure? A. Mean sac diameter of >20mm without B. Absence of double decidual sac sign C. Irregular shape of gestation sac D. Poorly reflective decidual reaction	ut visible yolk sac
11.	On ultrasound assessment in third measurement of largest pool of amniot diagnostic?	ic fluid above what level is considered
	A. More than 2 cm C. More than 6 cm	B. More than 4 cm D. More than 8 cm
12.	On ultrasound for liver, diffusely increase echogenicity but diaphragmatic echoge of the following grade	
	A. Grade-III	B. Grade-II D. Grade-IV
13.	On ultrasound of the liver, all the followi A. Caroli's disease C. Biliary cystadenoma	ng are cystic lesions EXCEPT B. Biliary hamartoma D. Hepatic adenoma
14.	On ultrasound of gall bladder, "wall echoof A. Cholelithiasis	o-shadow" sign suggests the diagnosis B. Porcelain gall bladder
	C. Emphysematous cholecystitis	D. Cholangitis
15.	The urinary bladder wall on ultrasound than in the distended state	is considered thickened if it is greater
	A. 3 mm C. 7 mm	B. 5 mm D. 10 mm
16.	By definition, ultrasound is sound have cycles per second, that is, sound above A. 10,000 C. 30,000	
17.	Which is not echogenic while doing ultra A. Bile C. Bone	asonography? B. Gas D. Gall stones
18.	Most commonly used piezoelectric crys A. Quartz C. Lead Zirconate	tal is : B. Cane sugar D. Barium Zirconate
19.	Ultrasound is reflection of A. Soft tissues only C. Both soft and hard tissues	B. Hard tissues only D. Hard muscles only

20. In blighted ovum: A. Gestational sac and embryo re both formed. B. Gestational sac is formed but embryo does not form C. Gestational sac, yolk sac and embryo are formed D. None of the above 21. In an antenatal USG, double bubble sign is seen in: A. Duodenal atresia B. Pyloric Stenosis D. Jejunal Atresia C. Esophageal atresia 22. PNDT act was conceived in the year A. 1992 B. 1994 C. 1996 D. 2006 23. Choose the correct statement A. Umbilical arteries carry pure blood to fetus from placenta B. Umbilical veins carry impure blood to fetus from placenta C. Umbilical arteries carry pure blood from the fetus to placenta D. Umbilical veins carry pure blood from placenta to fetus The amniotic fluid volume at 40 weeks measures about 24. A. 300-500 ml B. 600-800 ml C. 900-1200 ml D. 1300-1400 ml 25. On abdominal ultrasound, gall bladder shows diffuse wall thickening with hyperechoic nodules at neck and comet tail artifacts. The most likely diagnosis will be A. Adenomyomatosis B. Adenocarcinoma of gall bladder C. Xanthogranulomatous cholecystitis D. Cholesterol crystals 26. Sonographically Echinococcus cysts will have what characteristics? A. Cystic structure with no visible capsule B. Numerous cysts seen close together C. Homogenous / echogenic internal echoes D. Cystic structure with a daughter cyst 27. Which segment of liver is situated superior to the right main portal vein and posterior to right and middle hepatic veins? A. Segment VII B. Segment VIII C. Segment IV A D. Segment VI 28. High risk features of a cystic pancreatic lesion are all, except A. Growth on serial examination B. Diameter <3cm C. Internal soft tissue D. Mural or septal thickening 29. Which of the following is not an USG feature of chronic cholecystitis?

B. Wall echo shadow complex

D. Gall stones

A. Distended gall bladder

C. Thickened gall bladder wall

30.	In Mirizzi's Syndrome, findings include a A. IHBR dilatation C. Calculus in cystic duct	all, except B. Intrahepatic calculi D. Normal distal CBD
31.	Rotterdam Consensus Criteria for USG A. >12 follicles C. Reduced stromal echogenicity	B. Follicular size between 2-9 mm
32.	Following a uterine curettage, US appe around the uterus with intense color fill- A. Invasive choriocarcinoma C. Uterine AVM	
33.	In a patient suspected to have endome	etrial adhesions, the modality of choice
	A. Transabdominal ultrasound C. Sonohysterography	B. Transvaginal ultrasound D. Contrast enhanced ultrasound
34.	Poorly defined areas of decreased exceptions on the myometrium on USA. Leiomyomatosis C. Senile myometrial atrophy	
35.	Which of the following statements of column of Bertin is false? A. Indents the renal sinus laterally B. Usually located at the junction of mid C. Does not distort the renal outline D. Contain the renal pyramid	
36.	Mass in the retroperitoneum with a suggests A. The mass originates from the kidney B. The mass is extrarenal in origin C. Could be either extra- renal or renal D. Neither of the above	
37.	Low lying placenta is defined as a pla cervical os	
	A. 2 cm C. 1 cm	B. 4 cm D. 8 cm
38.	The optimum age for chorionic villous s A. 6-8 weeks C. 14-16 weeks	ampling is B. 10-12 weeks D. 18-20 weeks
39.	'Lambda' sign seen in twin gestation su A. Monochorionicity C. Monoamniocity	ggests B. Dichorionicity D. Diamniocity

40.	On transvaginal sonography, gestation : A. 2 weeks C. 8 weeks	sac can be first identified at B. 5 weeks D. 11 weeks
41.	Commonest site of tubal pregnancy is A. Infundibular C. Ampullary	B. Isthmic D. Cornual
42.	Doppler features of utero-placental insexcept A. Reversal of flow in umbilical artery B. Persistent uterine notch C. Early involvement of MCA D. Absent flow in umbilical artery	sufficiency include all of the following
43.	The formula for acoustic impedance us sound propagation velocity (c) in that m A. ρ x c C. ρ / c	- · · · ·
44.	Most echoes in the body arise from A. Specular reflectors C. Geometric reflectors	B. Diffuse reflectors D. None of the above
45.	Misregistration artifact in the ultrasound A. Attenuation C. Reflection	images occurs due to B. Refraction D. None of the above
46.	Which of the following body tissue has t A. Fat C. Muscle	he lowest attenuation? B. Liver D. Bone
47.	High dynamic range allows differentiation A. Small differences in the echo intensit B. Large differences in the echo intensit C. It does not affect the ability to perceiv D. Bone lesion from the soft tissue lesion	y cy ve echo intensity
48.	Advantages of power doppler are i. No aliasing ii. Much less angle dependence iii. Noise: A homogeneous background iv. Increased sensitivity for flow detection	
	A. i and ii C. ii and iii only	B. i, ii and iii D. i, ii, iii and iv

- 49. Which of the following causes greatest tissue temperature elevation

 A. B mode
 B. Color Doppler
 C. Spectral Doppler
 D. All of them cause equal rise in temperature

 50. Caudate Lobe of the liver constitutes segment
- 50. Caudate Lobe of the liver constitutes segment A. I B. II C. III D. IV

SECTION-B

Short Questions

Q.1. Placenta accreta spectrum.

Q. 2. Sonographic and doppler findings in renal artery stenosis.

Q. 3. Sonographic findings in liver metastasis.

Q. 4. Ultrasound and doppler findings in testicular torsion.

Q. 5. Sonographic findings in pelvic inflammatory disease.

Q. 6. Describe various sonographic artefacts.

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Q. 7. How would you optimize the machine settings for a Doppler examination?

Q. 8. Approach to a patient with female infertility on sonography.

Q. 9. First trimester ultrasound scan.

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Q.10. Sonographic Evaluation of a patient with history of multiple prior abortions.

ROUGH WORK

ANSWER KEY OF COMPETENCY BASED ASSESSMENT TEST (SIX MONTHS ULTRASOUND TRAINING RULES AS PER PC-PNDT ACT, 2014 EXAM HELD ON 15.11.2022

SET-C							
1	D	14	Α	27	Α	40	В
2	D	15	А	28	В	41	С
3	D	16	В	29	А	42	С
4	Α	17	Α	30	В	43	А
5	Α	18	С	31	С	44	В
6	Α	19	С	32	С	45	В
7	Α	20	В	33	С	46	А
8	Α	21	Α	34	D	47	А
9	D	22	В	35	В	48	D
10	Α	23	D	36	В	49	С
11	D	24	В	37	А	50	А
12	В	25	А	38	В		
13	D	26	D	39	В		