भारतीय प्रौद्योगिकी संस्थान रुड़की

Indian Institute of Technology Roorkee

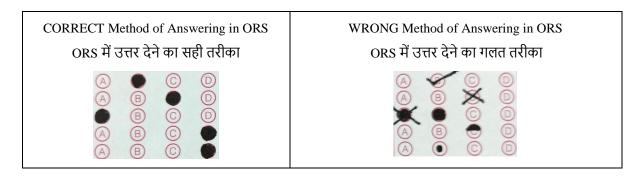
RECRUITMENT EXAMINATION FOR STAFF NURSE

TIER-I

This booklet consists of 16 pages. इस पुस्तिका में १६ पृष्ठ शामिल हैं।	
Maximum Marks: 50 अधिकतम अंक: ५०	Time: 120 Minutes समय: १२० मिनट
Name of Candidate (CAPITAL LETTERS): अभ्यर्थी का नाम	
Roll Number: अनुक्रमांक संख्या	
Father's Name: पिता का नाम	
Date of Examination: परीक्षा की तिथि	
Signature of Candidate अभ्यर्थी के हस्ताक्षर	Signature of Invigilator निरीक्षक के हस्ताक्षर

INSTRUCTIONS TO CANDIDATES

- 1. This question paper has 50 questions. Each question carries one mark. There are four choices for answer (A, B, C, D) to each question. Choose the correct answer (one only) for each question and mark it on the Optical Response Sheet (**ORS**).
- 2. Read the instructions given in the ORS carefully.
- 3. Use a black pen only otherwise, ORS will not be evaluated.
- 4. Candidate must write Name, Roll No., Date of Examination, Booklet Code and sign on the ORS.
- 5. The candidate should check that the booklet does not have any unprinted or torn or missing pages or questions etc. If so, get it replaced with another question paper.
- 6. While marking your answer on the ORS, fully darken the circle. Answer once marked cannot be changed.
- 7. One (1) mark will be awarded for each correct answer and minus one by three $(-\frac{1}{3})$ mark for each incorrect answer. The unanswered questions will not attract negative marks.
- 8. Return the ORS to the invigilator after the examination is over.
- 9. Candidate is allowed to take away question paper after the examination.
- 10. Mobile and other Electronic Gadgets are prohibited in the examination. Watches of any kind are also not allowed.
- 11. Use of unfair means in examination will lead to cancellation of candidature.



उम्मीदवारों के लिए अनुदेश

- इस प्रश्नपत्र में 50 प्रश्न हैं। प्रत्येक प्रश्न के उत्तर के लिए चार (A, B, C, D) विकल्प हैं। प्रत्येक प्रश्नके लिए सही उत्तर (केवल एक) चुनें और उसे Optical Response Sheet (ORS) शीट पर चिन्हित करें।
- 2. ORS में दिए गए निर्देशों को ध्यान से पढें।
- 3. केवल काले पेन का प्रयोग करें, अन्यथा ORS का मूल्यांकन नहीं किया जाएगा।
- 4. ORS शीट पर अपना नाम, रोल नंबर, परीक्षा की तिथि, पुस्तिका कोड लिखेंऔर हस्ताक्षर करें।
- 5. उम्मीदवार को यह जांचना चाहिए कि इस पुस्तिका में कोई अमुद्रित या फटे या लापता पृष्ठ या प्रश्नआदि नहीं हैं। यदि ऐसा है, तो इसे एक नये प्रश्न पत्र से बदल लें।
- 6. ORS पर अपना उत्तर अंकित करते समय उस गोले को पूरी तरह से काला कर दें। एक बार अंकित उत्तर को बदला नहीं जा सकता।
- 7. प्रत्येक सही उत्तर के लिए एक (1) अंक प्राप्त होगा और प्रत्येक गलत उत्तर के लिए एक बटा तीन $(-\frac{1}{3})$ अंक घटा दिया जाएगा। अनुत्तरित प्रश्न नकारात्मक अंक आकर्षित नहीं करेंगे।
- 8. परीक्षा समाप्त होने के बाद ORS निरीक्षक को लौटा दें।
- 9. उम्मीदवार को परीक्षा के बाद प्रश्न पत्र अपने साथ ले जाने की अनुमति है।
- 10. परीक्षा में मोबाइल और अन्य इलेक्ट्रॉनिक गैजेट्स वर्जित हैं। किसी भी प्रकार की घड़ियों की भी अनुमित नहीं है।
- 11. परीक्षा में अनुचित साधनों के प्रयोग की स्थिति में उम्मीदवारी रद्द कर दी जाएगी।

(Objective type questions) (वस्तुनिष्ठ प्रकार के प्रश्न)

Each question carries 1 mark प्रत्येक प्रश्न के 1 अंक है

Note: Read the passage below and answer question numbers 1 & 2:

I went often to look at the collection of curiosities in Heidelberg Castle, and one day I surprised the keeper of it with my German. I spoke entirely in that language. He was greatly interested; and after I had talked a while, he said my German was very rare, possibly a "unique;" and wanted to add it to his museum. If he had known what it had cost me to acquire my art, he would also have known that it would break any collector to buy it. Harris and I had been hard at work on our German during several weeks at that time, and although we had made good progress, it had been accomplished under great difficulty and annoyance, for three of our teachers had died in the meantime. A person who has not studied German can form no idea of what a perplexing language it is. Surely there is not another language that is so slipshod and system less, and so slippery and elusive to the grasp.

1.	Whom	did	the	author	surprise	with	his	Germa	n?

- A. The curiosity owner
- B. The keeper of the castle
- C. Himself
- D. His friend Harris

2	Eind a vyand	in the passage	that masana	"dama rrithant	
Z.	ring a word	in the bassage	mai means	done without	care

- A. Dem
- B. Blacksmith
- C. Slipshod
- D. Elusive

3.	Rama	lives	in a	hostel.

- A. boy's
- B. boys'
- C. boys
- D. boys's

4.	Unfo	rtunately, my trip to Indonesia because I couldn't save enough money
	A.	wash away
	В.	turn up
	C.	fell through
	D.	try out
5.	If cos	$s 9\alpha = \sin \alpha$ and $9\alpha < \frac{\pi}{2}$, then the value of $\tan 5\alpha$ is
	A.	$\frac{1}{\sqrt{3}}$
	B.	$\sqrt{3}$
	C.	1
	D.	0
6.	If the	angle between two radii of a circle is 110°, then the angle between the tangents
	at the	e end of the radii is
	A.	90°
	B.	50°
	C.	70°
	D.	40°
7.		g has 5 white marbles, 8 red marbles and 4 purple marbles. If we take a marble omly, then what is the probability of not getting the purple marble?
	A.	0.5
	В.	0.66
	C.	0.08
	D.	0.77

8.		Who among the following was the First Indian Cricketer to bag 500 wickets in Test matches?			
	A.	Kapil Dev			
	B.	Javagal Srinath			
	C.	Anil Kumble			
	D.	Harbhajan Singh			
9.	Which	of the following was the contemporary of both Buddha and Mahavira?			
	A.	Bimbisara			
	B.	Ashoka			
	C.	Chadragupta Maurya			
	D.	Bindusara			
10.	The id	ea of Lokpal is taken from			
	A.	Britain			
	B.	America			
	C.	Scandinavian Countries			
	D.	France			
11.	Vitam	in C deficiency can cause			
	A.	Cheilosis			
	B.	Scurvy			
	C.	Rickets			
	D.	Pellagra			

12.	A nur	se plans to send the sputum of a person for testing for TB. The best time to take
	the sa	mple is
	A.	after breakfast
	B.	early morning
	C.	afternoon
	D.	before sleeping at bedtime
13.	In qua	arantine act, a person should be detained after the contact with infectious person
	for	
	A.	incubation period of the disease
	В.	twice the incubation period of the disease
	C.	half the incubation period of the disease
	D.	at least 7 days
14.	Rice	water stool is characteristic finding in
	A.	Diarrhea
	B.	Typhoid
	C.	Malaria
	D.	Cholera
15.	Drug	class used for inhibiting cough reflex is called
	A.	Antidotes
	B.	Antispasmodic
	C.	Antitussives
	D.	Antipruritic

	A.	Potassium
	B.	Sodium
	C.	Calcium
	D.	Magnesium
17.	Who	among the following is at the maximum risk of fluid and electrolyte imbalance?
	A.	A 35-year-old female
	B.	A 55-year-old male
	C.	A 6-month-old baby
	D.	An adolescent girl
18.		rse is administering a medication through injection at 15-degree angle. A junior is observing her and understood that the injection is administered as
	A.	Intramuscular
	B.	Subcutaneous
	C.	Intravenous
	D.	Intradermal
19.	A pat	ient's serum potassium is 2.2 mEq/L. The doctor prescribed injection KCl for his
	treatn	nent. The best way a nurse can administer the injection is
	A.	IV bolus dose
	B.	IV infusion
	C.	slow IV over 5 min
	D.	intramuscular

Most abundant ion in the extracellular fluid is _____

16.

20.	You are adviced by the doctor to start a medication through a microdrip set. How many				
	micro	-drops will constitute 1 ml of fluid?			
	A.	15 drops			
	B.	30 drops			
	C.	45 drops			
	D.	60 drops			
21.	Recor	nmended rate of chest compressions during CPR in an adult patient is			
	A.	80-90 per minute			
	B.	100-120 per minute			
	C.	130-150 per minute			
	D.	350 per minute			
22.	Most	common type of shock in trauma patients is			
	A.	cardiogenic shock			
	B.	hypovolemic shock			
	C.	obstructive shock			
	D.	septic shock			
23.		nasogastric tube placement, a nurse aspirates the contents and checks the pH of pirate. Which if the following pH confirms that the tube is in stomach?			
	A.	pH of 4			
	B.	pH of 7			
	C.	pH of 8			
	D.	pH of 10			

	he is in cardiac arrest. Which pulse will you check for evaluation?			
	A.	Radial		
	B.	Brachial		
	C.	Femoral		
	D.	Carotid		
25.	The te	rm alopecia means		
	A.	loss of appetite		
	B.	loss of weight		
	C.	loss of hair		
	D.	body swelling		
26.	The ca	aliber of pink IV cannula is		
	A.	16G		
	B.	18G		
	C.	20G		
	D.	22G		
27.	Colou	r coding for 16 French foley's catheter is		
	A.	white		
	B.	red		
	C.	orange		
	D.	green		

24. A young male collapsed in the park when you were around. You want to determine if

	A.	Nylon
	B.	Catgut
	C.	Silk
	D.	Dacron
29.	The ac	etion of mydriatic drugs is to
	A.	dilate the pupils
	B.	constrict the pupils
	C.	no effect on pupils
	D.	sometimes dilate sometimes constrict the pupils
30.	If a pa	tient has a BP of 120/90, what is the pulse pressure?
	A.	20 mmHz
		30 mmHg
	В. С.	100 mmHg
		120 mmHg
	D.	90 mmHg
31.	Tho ri	ght method of assessing the surface temperature of a patient is using
31.	THC II	ght method of assessing the surface temperature of a patient is using
	A.	dorsal surface of the hand
	B.	ventral surface of the hand
	C.	lateral border of the hand
	D.	tips of the finger

Which of the following is an absorbable suture material?

28.

32.	Which of the following is not a vital sign?			
	A.	temperature		
	В.	oxygen saturation on pulse oximetry		
	C.	blood pressure		
	D.	consciousness		
33.	Which	n of the following most accurately describes bradycardia in an adult patient?		
	A.	pulse rate between 60 / min and 80 / min		
	B.	pulse rate between 90 / min and 110 / min		
	C.	pulse rate > 120 /min		
	D.	pulse rate < 60 / min		
34.	. A patient is brought to the emergency after road traffic crash. Best method to maintai open airway in this patient is			
	A.	head-tilt and chin lift		
	В.	jaw thrust		
	C.	recovery position		
	D.	Trendelenberg position		
35.	Nitrog	glycerin (NTG) is to be started as a continuous infusion of 10 microgram/min in		
	a 60 k	g adult patient. You prepare the infusion solution by mixing 50 mg NTG in NS		
	to ma	ke a 50 ml solution. What should be the hourly rate of infusion to achieve the		
	desire	d dose of infusion?		
	A.	6 ml/hr		
	В.	0.6 ml/hr		
	C.	60 ml/hr		
	D.	10 ml/hr		

the fluid minute to			
How much energy is produced after metabolism of 1 g of fat?			
The ability to maintain a constant internal environment is known as			
You are asked to check the oral temperature of a patient in your ward. Which of the			
ne correct			
i			

40.	While	measuring the BP of a patient using auscultatory method, the diastolic BP
	corres	ponds to
	A.	4 th phase of Korotkoff's sounds
	B.	3 rd phase of Korotkoff's sounds
	C.	5 th phase of Korotkoff's sounds
	D.	1st phase of Korotkoff's sounds
41.	Most	appropriate specimen to be taken for urinalysis is
	A.	fore-stream urine sample
	B.	mid-stream urine sample
	C.	hind-stream urine sample
	D.	all of the urine in one attempt
42.	The p	pattern of fever where it reaches normal temperature at regular interval
	is	
	A.	continuous fever
	B.	remittent fever
	C.	factitious fever
	D.	intermittent fever
43.	Norm	al range of serum sodium is
	A.	105-115 mEq/L
	B.	115-125 mEq/L
	C.	125-135 mEq/L
	D.	135-145 mEq/L
		•

	A.	atrial depolarization	
	B.	atrial repolarization	
	C.	ventricular depolarization	
	D.	ventricular repolarization	
45.	45. Overstimulation of medulla oblongata causes		
	A.	respiratory alkalosis	
	B.	metabolic alkalosis	
	C.	respiratory acidosis	
	D.	metabolic acidosis	
46.	Which	h of the following suggests metabolic acidosis?	
	٨	High hissarks nests high nCO	
	A.	High bicarbonate, high pCO ₂	
	B.	High bicarbonate, low pCO ₂	
	C.	Low bicarbonate, high pCO ₂	
	D.	Low bicarbonate, low pCO ₂	
47.	Which	n of the following is not an isotonic solution?	
.,.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a or me rono ming to not un tottome porturon.	
	A.	0.9% saline	
	B.	Ringer's lactate	
	C.	DNS (5% dextrose in 0.9% saline)	
	D.	10% dextrose	
48.	Health	ncare associated infection is acquired by the patient after	
	A.	24 hours of hospitalisation	
	B.	48 hours of hospitalisation	
	C.	72 hours of hospitalisation	
	D.	96 hours of hospitalisation	

44. On obtaining a 12-lead ECG, 'P wave' denotes _____

49.	Doctor prescribed a drug with a frequency Q4h. How many times should that drug		
	administered in a day?		
	A.	4 times	
	В.	6 times	
	C.	2 times	
	D.	8 times	
50. Doctor prescribes tab. Paracetamol as PRN. The nurse should give the tablet t			
	patient		
	A.	each morning	
	В.	in case of an emergency	
	C.	whenever needed	
	D.	after asking the doctor	

SPACE FOR ROUGH WORK