## JELET-2018

## For PHARMACY CANDIDATES

Time: 2 Hours Full Marks: 100

## Instructions

- All questions are of objective type having four answer options for each. Only one option is correct. Correct answer will carry 1 mark. In case of incorrect answer or any combination of more than one answer, ½ mark will be deducted.
- Questions must be answered on OMR sheet by darkening the appropriate bubble marked A, B, C or D.
- Use only Black/Blue ball point pen to mark the answer by complete filling up of the respective bubbles.
- 4. Do not make any stray mark on the OMR.
- Write question booklet number and your roll number carefully in the specified locations of the OMR. Also fill appropriate bubbles.
- 6. Write your name (in block letter), name of the examination centre and put your full signature in appropriate boxes in the OMR.
- 7. The OMRs will be processed by electronic means. Hence it is liable to become invalid if there is any mistake in the question booklet number or roll number entered or if there is any mistake in filling corresponding bubbles. Also it may become invalid if there is any discrepancy in the name of the candidate, name of the examination centre or signature of the candidate vis-a-vis what is given in the candidate's admit card. The OMR may also become invalid due to folding or putting stray marks on it or any damage to it. The consequence of such invalidation due to incorrect marking or careless handling by the candidate will be sole responsibility of candidate.
- 8. Candidates are not allowed to carry any written or printed material, calculator, docu-pen, log table, any communication device like mobile phones etc. inside the examination hall. Any candidate found with such items will be reported against and his/her candidature will be summarily cancelled.
- Rough Work must be done on the question paper itself. Additional blank pages are given in the question paper for Rough Work.
- 10. Hand over the OMR to the invigilator before leaving the Examination Hall.

## SPACE FOR ROUGH WORK

1,	Suc	ondum chloride is used as			
	(A)	Astringent	(B)	Antiseptic	
	(C)	Desensitizing agent	(D)	Deactivating agent	
2.	How	w many volumes of the latest edition of	IP (2	2017) are there?	
	(A)	Five	(B)	Six	
	(C)	Four	(D)	Three	
з.	Sodi	ium bicarbonate is used in the treatmen	nt of	•	
	(A)	Systemic acidosis	(B)	Systemic alkalosis	
	(C)	Gastric ulcer	(D)	Duodenal ulcer	
4.	Whi	ch one is Gram-negative cocci?			
	(A)	Micrococcus luteus	(B)	Escherichia coli	
	(C)	Neisseria gonorrhoeae	(D)	Vibrio cholerae	
5.	Lead	d acetate moistened cotton is used for t	he li	mit test of	
	(A)	Iron	(B)	Chloride	
	(C)	Arsenic	(D)	Sulphate	
6.	Agai	r-agar is obtained from			
	(A)	marine drive	(B)	marine fish	
	(C)	marine bacteria	(D)	marine algae	
7.	. Gutzeit apparatus is used to detect which impurities in pharmaceuticals?				
	(A)	Ba	(B)	Pb	
	(C)	Zn	(D)	As	
8.	Bloc	od dyscrasis is occurred due to the side	effe	cts of	
	(A)	Tetracycline	(B)	Ciprofloxacin	
	(C)	Chloramphenicol	(D)	Rifampicin	

9.	. The colour of Tr. Card. Co. is red, due to the presence of			
	(A)	Amaranth	(B)	Zn
	(C)	Red oxide	(D)	Cardamom
10.	Sun	ray is good sterilizing agent due to		
		X-ray	(B)	γ-ray
		VIBGYOR	(D)	UV-ray
	, -,		, .	
11.	Men	del's point contains		
	(A)	I <sub>2</sub>	(B)	Zn
	(C)	Sn	(D)	Hg
12.	Rate	e of drug dissolution from a tablet is re	lated	with
		Fick's law		Henderson-Hasselbalch equation
	٠.,	Noyes-Whitney equation	(D)	Michaelis-Menten equation
13.	Disi	nfectant property of a solution can be	deter	mined by
	(A)	Friedel-Craft Reaction	(B)	Cannizzaro Reaction
	(C)	Rideal-Walker Test	(D)	Zeihl Neelson Method
14.	Elec	ctrophoresis is a process by which we c	an s	eparate out
		Protein		Lipid
	(C)	Urine	(D)	Carbohydrate
15.	Por	e size of Membrane filter is		
	(A)	0·75 μ	(B)	0·2 μ
	(C)	0·4 μ	(D)	1 μ
16.	Occ	usart, a dosage form device is placed in	n	
	(A)	tongue	(B)	rectum
	(C)	vagina	(D)	conjunctiva

17.	HEP	A litter in Laminar Air Flow Hood Conta	anns	
	(A)	4 types of filter	(B)	3 types of filter
	(C)	2 types of filter	(D)	1 type of filter
18.	The	drug extensively used for the treatmen	t of	both Glucoma and Hypertension is
	(A)	Atropine sulphate	(B)	Pilcocarpine nitrate
	(C)	Acetazolamide	(D)	Propanolol
19.	Whi	ch one is dimercaprol?		
	(A)	BAL	(B)	GABA
	(C)	EDTA	(D)	ВНС
20.	The	primary organ for excretion of most dr	ugs	is
	(A)	Kidney	(B)	Liver
	(C)	Lungs	(D)	Skin
21.	Whi	ch one is rod-shaped bacterium?		
	(A)	Vibrio cholerae	(B)	Staphylococcus aureus
	(C)	Escherichia coli	(D)	Neisseria gonorrhoeae
22.	Wat	er for injection differs from sterile distil	led v	water as it is free from
	(A)	CO <sub>2</sub>	(B)	pyrogen
	(C)	living bacteria	(D)	preservative
23.	The	colour of KI is		
	(A)	yellow	(B)	brown
	(C)	white	(D)	red
24.	Cob	palt is a constituent of		
	(A)	Folic acid	(B)	Vitamin B <sub>12</sub>
	(C)	Biotin	(D)	Vitamin K

25.	Dia	cetyl morphine is		
	(A)	Heroine	(B)	Heroin
	(C)	Codeine	(D)	Noscopine
26.	The	main physiological buffer in the blood	is	
	(A)	NaCl	(B)	Acetate
	(C)	Phosphate	(D)	Bicarbonate
27.	Wh	ich one is Xanthine oxidase inhibitor?		
	(A)	Purine	(B)	Allopurinol
	(C)	Propanolol	(D)	Timolol
28.	υv	absorption range is		
	(A)	200 nm-400 nm	(B)	200 nm-800 nm
	(C)	400 nm-700 nm	(D)	300 nm-500 nm
29.	Whi	ich form of alkaloids is more active?		
	(A)	Meso-form	(B)	Dextro-form
	(C)	Levo-form	(D)	Racemic-form
30.	Org	anisms that can grow on organic matte	r fro	m dead plants and animals are called
	(A)	Parasites	(B)	Mesophytes
	(C)	Saprophytes	(D)	Epiphytes
31.	Whi	ch one is used as an Anti-sterility facto	). ).	
	(A)	Vitamin K	(B)	Vitamin E
	(C)	Vitamin D	(D)	Vitamin P
32.	Om	ega-3-fatty acid have which of the follow	ving	functions?
	(A)	Prevents Osteoarthritis	(B)	Prevents Night-blindness
	(C)	Prevents Parkinsonism	(D)	Prevents Arthrosclerosis

33,	The	reason of incorporation of vitamin C al	ong	with iron preparation is
	(A)	for sustained action	(B)	conjugation
	(C)	avoidance of constipation	(D)	Helps conversion and absorption
34.		icle-Stimulating Hormone (FSH) and Intreted from the	ersti	tial-Cell Stimulating Hormone (ICSH) are
	(A)	Posterior Pituitary	(B)	Hypothalamus
	(C)	Testis	(D)	Anterior Pituitary
35.	Pen	icillin is obtained from		
	(A)	Mould	(B)	Bacteria
	(C)	Protozoa	(D)	Yeast
36.	Lieb	permann-Burchard test is used for the	letec	tion of
	(A)	Alkaloid	(B)	Steroid
	(C)	Protein	(D)	Carbohydrate
37.	The	ratio of Sulphamethoxazole and Trimet	hopr	im is
	(A)	1:5	(B)	2:5
	(C)	3:5	(D)	5:1
38.	Whi	ich one of the formulation is a pressuri	zed o	drug delivery system?
	(A)	Nanosomes	(B)	Aerosols
	(C)	Implants	(D)	Liposomes
39.	Whi	ich one is fibrinolytic/antiplatelet activit	y?	
	(A)	Aspirin	(B)	Paracetamol
	(C)	Phenylbutazone	(D)	Pethidine
40.	Sod	lium metabisulphate is used as		
	(A)	Buffer	(B)	Antiemetic
	(C)	Antioxidant	(D)	Antiulcer

41.	Nal	orphine is the antagonist of		
	(A)	Opium	(B)	Morphine
	(C)	Codeine	(D)	Thebaine
42.	Der	ngue is caused by		
	(A)	Prion	(B)	DNA virus
	(C)	RNA virus	(D)	Mycoplasma
43.	Wh	ich one is not dopaminergic congener?		
	(A)	Dopamine	(B)	L-dopa
	(C)	Carbidopa	(D)	5-HT
44.	The	patient cannot tolerate enalapril. Which	h of	the following can be substituted?
	(A)	Omeprazole	(B)	Losartan
	(C)	Rosiglitazone	(D)	Clofibrate
45.	Fro	m which layer of intestine, the surgical	catg	ut is obtained?
	(A)	Mucous layer	(B)	Muscular layer
	(C)	Submucosal layer	(D)	Serous layer
46.	Fan	notidine acts as		
	(A)	H <sub>1</sub> -histimine antagonist	(B)	H <sub>2</sub> -histimine antagonist
	(C)	Proton pump inhibitor	(D)	H <sub>1</sub> -agonist
47.	Whi	ch one is the trophic hormone of testos	tero	ne?
	(A)	TSH	(B)	GTH
	(C)	STH	(D)	АСТН
48.	An :	abrasive used in dentifrices is		
	(A)	Dicalcium phosphate	(B)	Sodium carboxymethylcellulose
	(C)	Sodium lauryl sulphate	(D)	Dioctyl sodium sulfosuccinate

49.	Ergo	ot is		
	(A)	fruit	(B)	seed
	(C)	bacteria	(D)	fungus
50.	A pl	asticizer and a high boiling point solver	nt us	sed in the preparation of nail lacquers is
	_	butyl stearate		ethyl lactate
		ethyl alcohol	(D)	acetone
51.	Оху	tocic effect means		
	(A)	smooth muscle constrictor	(B)	uterine smooth muscle relaxant
	(C)	uterine smooth muscle constrictor	(D)	cardiac smooth muscle relaxant
52.	A co	o-solvent used in the preparation of par	ente	ral product is
	(A)	Benzyl alcohol	(B)	Methyl alcohol
	(C)	Dimethyl acetamide	(D)	Phenol
53.	Hov	w many pairs of cranial nerve we have?		
	(A)	10 pairs	(B)	15 pairs
	(C)	20 pairs	(D)	12 pairs
54.	The	ratio of the void volume to the bulk volum	ne of	the packing of the powder is called as
	(A)	Porosity	(B)	True density
	(C)	Granular density	(D)	Bulk density
55.	Poir	nt out the relationship between Atropine	ano	d Pilocarpine.
	(A)	Agonist	(B)	Antagonist
	(C)	Both (A) and (B)	(D)	Obtained from same plant
56.	The	half-life for a zero-order reaction is cal	cula	ted using
	(A)	$t_{1/2} = 0.693  / \text{K}$	(B)	$t_{1/2} = 2 \cdot 303  / \text{K}$
		$t_{1/2} = 1/aK$	(D)	$t_{1/2} = \alpha/2K$

57.	Col	chicine induces		
	(A)	Gout	(B)	Polyploidy
	(C)	Urate crystal elimination	(D)	Both (B) and (C)
58.	Nep	phalometric measurements are most sen	sitiv	e for
	(A)	clear solution	(B)	concentrated solution
	(C)	thick suspensions	(D)	very dilute suspensions
59.	Mo	rphologically, senna leaflet can be identi	fied	through
	(A)	Acute apex		
	(B)	Lanceolate shape		
	(C)	Acute apex and asymmetrical leaf base	:	
	(D)	Reticulate venation		
60.		um sample of a patient shows elevated lev suffering from	rels o	of γ-glutamyl transferase. The patient could
	(A)	Kidney disorder	(B)	Liver disease
	(C)	Parkinson's disease	(D)	Myocardial infarction
61.	Ant	hraquinone glycoside is used as		
	(A)	Cardiotonic	(B)	Purgative
	(C)	Diuretic	(D)	Antidiabetic
62.	The	Chairman of the Drugs Technical Advis	sory	Board is
	(A)	the Drugs Controller of India		
	(B)	the Director, Central Drugs Laboratory	, Kol	lkata
	(C)	the President, Pharmacy Council of Inc	lia	
	(D)	the Director General of Health Services		
63.	Kille	er-Kiliani test is used to detect		
	(A)	Deoxysugar	(B)	Tannin
	(C)	Steroidal saponin	(D)	Resin
64.	A m	acrolide antibiotic used as a powerful i	mmı	nosuppressive agent is
	(A)	Erythromycin	(B)	Azithromycin
	(C)	Tacrolimus	(D)	Clarithromycin

65.	. Which one is capsular fruit with axile placentation?				
	(A)	Cardamom	(B)	Datura	
	(C)	Coriander	(D)	Senna pod	
66.	The	family of Glycyrrhiza is			
	(A)	Solanaceae	(B)	Apocynaceae	
	(C)	Leguminosae	(D)	Leguminoceae	
67.	Mix	ing of semisolids is carried out using			
	(A)	double-cone mixer	(B)	rotating cube mixer	
	(C)	planetary mixer	(D)	fluidized bed mixer	
68.	Whi	ich one is nasal decongestant?			
	(A)	Papaverine	(B)	Reserpine	
	(C)	Ephedrine	(D)	Vasicine	
69.	If th	he Carr's index of a powder is 10%, the	n th	e type of powder flow is	
	(A)	Poor	(B)	Excellent	
	(C)	Very poor	(D)	Good	
70.	Wh	ich one of the following constituents is	antia	arrhythmic?	
	(A)	Cocaine	(B)	Strychnine	
	(C)	Vincrisine	(D)	Quinidine	
71.	Wh	ich of the following is likely to be a goo	d ta	rget for designing antihypertensive drug?	
	(A)	H <sub>2</sub> -histamine receptor	(B)	Proton pump	
	(C]	CTZ	(D)	$\alpha_2$ -adrenergic receptor	
72.	Zn	is used with ORS. Why?			
	(A)	Astringent	(B)	Constipating	
	(C)	Re-epithelialization of mucous lining	(D)	Antiseptic	

73.	. One of the standards for uncoated tablets as per IP is			
	(A)	Shape	(B)	Friability
	(C)	Size	(D)	Uniformity of weight
74.	Why	is Tetracycline contraindicated with m	ilk a	nd milk products?
	(A)	Oxidation	(B)	Reduction
	(C)	Chelation	(D)	Hydroxylation
75.	Neu	tral thioaliphatic amino acid found in p	rotei	in is
	(A)	Lysine	(B)	Valine
	(C)	Cysteine	(D)	Leucine
76.	1 gr	m is equal to		
	(A)	5 gr	(B)	10 gr
	(C)	15 gr	(D)	15·432 gr
77.	Whi	ch one of the following is poison nut?		
	(A)	Flax seed	(B)	Bahera
	(C)	Gokhru	(D)	Nuxvomica
78.	Pyro	ogen is		
	(A)	Bacterial exotoxin	(B)	Bacterial liposaccharide
	(C)	Bacterial polysaccharide	(D)	Gram-negative bacterial endotoxin
79.	DD	S is used in the treatment of		
	(A)	STDs	(B)	Viral diseases
	(C)	Leprosy	(D)	Malaria
80.	Vac	cine is		
	(A)	lysozyme	(B)	antibody containing preparation
	(C)	bacterial endotoxin	(D)	antigenic

.01.	An	anticoaguiant giycosaninogiycan is		
	(A)	Warfarin	(B)	Heparin
	(C)	Vitamin K	(D)	Aspirin
	Б	The DOT amendance is used for the treet		t of
82.	ran	nily DOT procedure is used for the treat	men	t of
	(A)	Leprosy	(B)	HIV-AIDS
	(C)	ТВ	(D)	STDs
83.	In t	he preparation of ointments, macrogols	аге	used as
	(A)	Water soluble base	(B)	Hydrocarbon base
	(C)	Absorption base	(D)	Oleogenous base
84.		at is the concentration of NaCl required to od plasma?	mak	ce 1% solution of Cocaine HCl isotonic with
		ezing point of $1\%$ w/v solution of NaCl is - is $-0.09$ °C.	0.5	76°C and freezing point of 1% w/v Cocaine
	(A)	0·746% w/v	(B)	0.9% w/v
	(C)	0·5% w/v	(D)	0·373% w/v
85.	Cho	olelithiasis is a disorder of		
	(A)	Gall bladder	(B)	Pancreas
	(C)	Spleen	(D)	Testes
86.	Нур	peruricaemia is associated with the abno	orma	l metabolism of
	(A)	Pyrimidine	(B)	Purine
	(C)	Riboflavin	(D)	Thiamine
87.	Med	chanism of moist heat sterilization of ki	lling	of bacteria is
	(A)	DNA core alteration	(B)	protein precipitation
	(C)	oxidation	(D)	alkylation

88.		chnician is attempting to sterilize a plug is bottle by autoclaving. Which of the fo		otton in hermetically sealed condition in a ng statements is correct?
	(A)	It should be sterilized at 115-118 °C fo	or 45	minutes.
	(B)	It should be sterilized at 121-124 °C fe	or 15	5 minutes at 15 lbs/sq. inch pressure.
	(C)	Sterilization cannot be achieved.		
	(D)	It should be autoclaved at 126-129 °C	with	saturated stream for 10 minutes.
89.	Chl	orthalidone is		
	(A)	diuretic	(B)	antidiabetic
	(C)	antiemetic	(D)	antirheumatic
90.		of diseases and ailments which a drug ms to prevent or cure under the Drugs		not purport to prevent or cure or make Cosmetics Rule 1945 is given under
	(A)	Schedule-K	(B)	Schedule-J
	(C)	Schedule-M	(D)	Schedule-S
91.	Whi	ch one possesses antioxidant activity?		
	(A)	Polyphenol	(B)	Phenol
	(C)	Catechol	(D)	Timolol
92.	Moi	sture content of pharmaceuticals can be	e det	ected by
	(A)	Desiccators	(B)	Karl-Fischer Instrument
	(C)	Rotary vacuum Evaporator	(D)	Lyophilizer
93.	FT-	IR analysis is done to detect the		
	(A)	Interaction study	(B)	Compatibility study
	(C)	Incompatibility study	(D)	Morphology study
94.	Ап	nan is sterile means		
	(A)	Infertile	(B)	Erectile dysfunction
	(C)	Improper fertilizations	(D)	Proper spermatogenesis

:95.	Res	Residue remaining after extraction is called			
	(A)	Menstrum	(B)	Rouphage	
	(C)	Marc	(D)	Mark	
96.	The	shape of caplet is			
	(A)	spherical	(B)	triangular	
	(C)	oval	(D)	elongated	
97.	Cla	avulanic acid is used along with amoxycillin. Why?			
	(A)	For synergism			
	(B)	To minimize the dose			
	(C)	β-lactamase inhibitor			
	(D)	Thiazolidine ring protector			
98.	Biological products should be stored in				
	(A)	0 °C			
	(B)	20 °C			
	(C)	– 4 °C			
	(D)	2-10 °C			
99.	Which one is not vector-borne disease?				
	(A)	Kala-azar			
	(B)	Filaria			
	(C)	Dengue			
	(D)	Chicken pox			
100.	Ryle's tube is used for the purpose of				
	(A)	urination			
	(B)	feeding			
	(C)	bronchoscopy			
	(D)	endoscopy			