F. No. Z30026/02/2017-D Government of India Directorate General of Health Services Central Drugs Standard Control Organisation

New Delhi, dated the 10th April, 2017

Merit List based on the written examination held on 09.04.2017 at NIB, NOIDA for WHO Rotational Fellowship selection is as under. Marks obtained by the candidates have been mailed to them.

S.N	No. Name & Designation	
1	Ms. Rubina Bose, DDC(I)	Roll No.
2.	Ms. A. Visala, DDC(I)	206
3.	Sh. Praveen A. Jagtap, DI	204
4.	Sh. D.K. Sable, ADC(I)	205
5.	Sh. Shiv Kumar, ADC(I)	210
6.	Sh. Ashish Rai, DI	212
7.	Sh Navnoot Brot	209
8.	Sh. Navneet Pratap Singh, ADC(I)	226
9.	The string of th	219
10.	Ms. Nisha Sankhwar, DI	217
11.	Ms. Shradha Srivastava, DI	203
12.	Ms. Swati Srivastava, DDC(I)	202
3.	OII. ADIIISNEK Chawla DI	225
4.	Sh. Sushant Sharma, ADC(I)	216
5.	OII. F. Manavalan Di	211
<u>6.</u>	Sh. Rajesh Kumar Verma, DI	201
7.	Oil. Galijav Klimar Aganual Di	
3.	John Jayani Klimar ADC(I)	207
).).	OII. MILIN M. Jadhay DI	214
30.000	on. Gauray Kumar ADC/I)	213
).	OII. Signarth Sahai Malhat	218
	ivis. briarthi. ADC/I)	221
	Sh. Inderjeet Singh Hura, ADC(I)	222
	g. Hara, ADC(I)	220

Officers from S.Nos. 1 to 4 have been selected for the proposed WHO Rotational Fellowship. Officer at S.No. 5 have been kept as reserve.

This examination is going to be a continuous process for selecting officers for these Fellowships. Examination for selecting next batch of

officers for these Fellowships will be held in the coming months. The examination will be of two hours duration and in 3 Parts. Sample Question Papers of all the three parts are also attached for the benefit of officers appearing in the next examination to enable them to prepare for the examination. It is also proposed to make this examination compulsory for all DDC(I)s & ADC(I)s, while it will be optional for Drug Inspectors with requisite experience/age.

(Arun Sharma) Director(A)

IT Cell, CDCO (HQ) – for placing on the website of CDSCO.



Central Drugs Standard Control Organization

Part I

[Maximum Mark 30]
[Time permitted 40 Minutes]

Q. 1 Write an essay not exceeding 250 words on how to Leverage comparative cost advantage and quality for increasing the export of pharmaceutical products from India and generating white collar jobs.

[15]

Q.2 Read the following passage and answer the questions given at the end of the passage:

People talk of memorials to him in statues of bronze or marble or pillars and thus they mock him and belie his message. What tribute shall we pay to him that he would have appreciated? He has shown us the way to live and the way to die and if we have not understood that lesson, it would be better that we raised no memorial to him, for the only fit memorial is to follow reverently in the path he showed us and to do our duty in life and in death.

He was a Hindu and an Indian, the greatest in many generations, and he was proud of being a Hindu and an Indian. To him India was dear, because she had represented through the ages certain immutable truths. But though he was intensely religious and came to be called the Father of the Nation which he had liberated. Yet no narrow religious or national bonds confined his spirit. And so he became the great internationalist, believing in the essential unity of man, the underlying unity of all religions, and the needs of humanity and more specially devoting himself to the service of the poor, the distressed and the oppressed millions everywhere.

His death, brought more tributes than have been paid at the passing of any other human being in history. Perhaps what would have pleased him best was the spontaneous tributes that came from the people of Pakistan. On the morrow of the tragedy, all of us forgot for a while the bitterness that had crept in, the estrangement and conflict of these past months and Gandhiji stood out as the beloved champion and leader of the people of India, of India as it was before partition cut up this living nation.

What was his great power over the mind and heart of man due to? Even we realise, that his dominating passion was truth. That truth led him to proclaim without ceasing that good ends can never be attained by evil methods, that the end itself is distorted if the method pursued is bad. The truth led him to confess publicly whenever he thought he had made a mistake – Himalayan errors he called some of his own mistakes. That truth led him to fight evil and untruth wherever he found them, regardless of the consequences. That truth made the service of the poor and the dispossessed the passion of his life, for where there is inequality and discrimination and suppression there is injustice and evil and untruth. And thus he became the beloved of all those who have suffered from social and political evils, and the great representative of humanity as it should be. Because of that truth in him wherever he sat, became a temple and where he trod was hallowed ground.

- Jawahar Lal Nehru

Question

- 1. About whom is the passage written? [1]
- Why does Nehru make the difference about being a "Hindu" and an "Indian"? Is there any difference really? [Not more than three sentence]
- What great lesson did this great man show us for life?[Two sentences]

4.	Mention some of the virtues of 'the great internat [Not more than three sentence]	ionalist'? [2]
5.	Nehru seems to suggest that his hero was 'the beloved chand leader of the people of India' only before the part Pakistan and India. Do you agree with that? Explain [In Three sentences]	nampion tition of [2]
6.	What did 'truth' mean to this great man?	[1]
7.	Give the meaning of the following in the context of the paramemorials, immutable, essential, estrangement, spontar discrimination, dominating, Himalayan.	ssage: neous, [4]
3.	What could, according to Nehru be the best tribute to the man after his death?	great [1]



Central Drugs Standard Control Organization

PART - II

Time: 40 Min [Marks: 40]

 Arrange the following drug discovery process in the order of concept to product life cycle. [1]

- a) Compound screening or lead optimization
- b) Human Pharmacology trials
- c) Preclinical Pharmacology
- d) Therapeutic exploratory Trials
- e) Post Marketing Surveillance Study
- f) Therapeutic Confirmatory Trials

Identify the correct order/sequence given below:

- i) a, c, b, d, f, e
 ii) a, b, e, d, f, c
 ii) b, e, a, d, f, c
 iv) a, b, e, d, f, c
- The study of the use and effects/side-effects of drugs in large number of people with the objective of supporting rational and cost-effective use of drugs in the population and thereby improving health outcomes, is called ______.

[1]

3. What is the frequency of PSUR submission to Licensing Authority after New Drugs approval as per Schedule Y of Drugs and Cosmetics Rule 1945?

4.	Reverse Osmosis is the phenomenor through semi-permeable membrane for gradient to higher concentration gradient of high pressure. [True/False]	rom lower concentration
5.	Match the correct method of sterilist mentioned materials:	ation for following below [2]
	Table I Materials i) Glass Vial ii) Aqueous thermo labile solutions iii) Aqueous thermo stable solutions Radiation iv) Orthopaedic implants	Table II Method of Sterilisation a) Steam sterilization b) Dry Heat sterilization c) Exposure to ionizing d) Filtration
	Write the roman no. and alphabet in re respectively -	spect of table I and table II(iv)
6.	(I) (II) the en	vironmental parameters
	a) Particulate monitoring in air	
	b) HEPA filter integrity testing (smok	te testing)

- c) Air pressure differentials

 d) Air Changes Rates

 e) Temperature and Humidity

 f) Microbiological monitoring by settle in aseptic area
- 7. Write the name of four degradation studies performed during analytical method validation. [3]

8. Match the bio indicators used and sterilization techniques: [4]

Method of Sterilisation	Bio valid	indicator strain proposed for ation of the sterilization process
a. Steam sterilization	i.	spores of <i>Bacillus subtilis</i>
b. Filtration	ji.	spores of <i>Bacillus</i>
*		stearothermophilus

c. Exposure to ionizing Radiation	iii.	microbiological challenge of 10 ⁷ CFU of <i>Brevundimonasdiminuta</i> per cm ² of the filter surface
d. Dry Heat sterilization	iv.	spores of <i>Bacillus pumilus or</i> spores of <i>Bacillus cereus</i> or <i>Bacillus sphaericus</i>

Write alphabet for method and roman numeral for bio indicator.

а	b	 С	 d	*******
a		 _		

- 9. Which of the following is a polysaccharide vaccine: [1]
 - a) Anthrax vaccine
 - b) Rabies vaccine
 - c) Hepatitis A
 - d) Hib vaccine

- 10. Current WHO guidelines recommending the dead leg of continuous water circulation loop should be less than. [1]
 - a) **5D**
 - b) **8D**
 - c) **6D**
 - d) **3D**

- 11. What does Sensitivity mean in validation of an analytical procedure?
 - a) The ability to measure an analyte free of interference from other components

- b) The degree of agreement among the test results
- c) The closeness of the results to the true value.
- d) The ability to produce results directly proportional to the analyte concentration.
- e) The capacity to record small variations in concentration.

- 12. The high-level document that summarizes the manufacturer's overall philosophy, intentions and approach, to be used for establishing performance adequacy is called [1]
- 13. The document which defines what the system is intended to do i.e. basic needs or functionality of the system from the end user's perspective and also describe the capacity, safety and control requirements is called

15.	Write at least three parameters which should be validate	d
	during analytical method in case of the cleaning validation	n.
	[3	3]

16. Which type of tablets are exempted from Disintegration testing?

17. Air re-circulation:

[1]

- a) Is allowed if there is no danger of cross-contamination.
- b) Is always the preferred setup for air handling systems.
- c) Is allowed only if terminal HEPA filters are installed.
- d) Is allowed provided that the make-up fresh air is more than 15%.

Indicate the correct options-

18. Air diffusers should be of the low induction type so that: [1]

- a) Laminar (uni-directional) flow can be maintained in clean rooms.
- b) Circulation of dust in the room is minimized.
- c) So that drafts are not created.
- d) Proper room flushing is ensured.

19.	vaccines.	are	the	examples	of	live	atten	uated [1]
	 a) Oral polio vaccine a b) Pertussis vaccine, Ir c) Haemophilusinfluenz Pneumococcal conju d) Tetanus toxoid and I 	nactiv zae Pl ugate	ated I RP coi vacci	Polio Vaccine njugate vacc ne	e (IP	V)	(VZV)	
20.	Expand the following	g						[3]
	OOS							
c) (OOT							
d)T	TRS						- Markey and a second	m.
e)C	PCSEA:						1	-
f) R	CGM							

21	to co a) 0 b) 5 c) 5 d) N	initial value is considered as the sonduct of stability studies5% % .5% lone of the above		
	S.N.	Table I	S.N.	Table II
		Special Courts	i)	Section 35
	a) b)	Power of central Government to give directions	ii)) Section 34
	c)	Publication of sentences passed under D&C Act	iii)	Section 36AB
	d)	Offences by companies	iv)	Section 33 P
		a) b) c) d)		
23.	the	rasthya Adhikar Manch V/s Union o	ourt a	and relates to

- 24. Section_____ of the Drugs and Cosmetics Act, 1940 provides power to the Central Government to regulate, restrict manufacture, etc., of drug and cosmetic in public interest. [1]
- 25. The science and activities relating to detection, assessment, understanding and prevention of adverse effects or any other drug-related problem is called as

 [1]



Central Drugs Standard Control Organization <u>Part III</u>

[Maximum Marks - 40] [Time 40 Minutes]

Q.1 F	ill in the Bla	nks:			[Time	40 Minu	
(I)	Placebo	is a Latin na	me whi	ch mea	ne		11]
(II)	Anticoag	ulant inte	racts	with	food	high	
(III)		interacts		Food	item	ı call	ed
(IV)	Paracente	sis is the in	sertion	ofan	eedle ir	nto	
(V)	Shigella	for removal is a mi critis through	cro-org	janism	that	cause	es
(VI)	Repeated ι	use of exces.	sive do	ses of c	Irugs be	elongin	g
(VII)	causes kidr Thyroids of	ney damage. hormone					
(VIII)	Growth hor	mones is pr	oduced	in		gland	
	and of	it	cont	rols	(growth	
	production.			*************	********		
IX)	Renin hormo	one is prod	duced	in		and	

(X)	Leptin	in	а	hormone	which	is	produced	in
				and conti	rols			
(XI)	Dyspep	sia i	refe	r to pain in				

Q.2 Write the route through which the following drugs are taken: [10]

Drug	Route	Side Effect
		[Maximum Two]
Isonized		
Rifampin		
Pyrazinamide		
	1	
Ethambutol		
Streptomycin		

Q.3 Match the infection in table A with Host in table B

[5]

S.No.	Table A	S.No.	Table B
1.	Epidemic typhus	a)	Sheeps, cattle and goats
2.	Murine tphus	b)	Rodents
3.	Scrub typhus	c)	Rodents
4.	Rickettsialpox	d)	Cats, rodents, and opossums
5.	Q fever	e)	Human beings

Ans.	1	4
	2	5
	3	

Q.4 Explain in one sentence or phrase the following terms [5]

(i) Paracoccidioidomycosis -

(ii) Cryptococcosis –

(iii) Hypertrichosis -

(iv) Alopecia -

(v) Actinomycosis -

Q.5 Write generic names of the following:

Chemical Name	Generic Name				
N-(4-hydroxyphenyl) acetamide					
7-chloro-1, 3-dihydro-1-methyl-5-phenyl-	-				
2H-1,					
4-benzodiazepin-2-one					
4-[4-(p-chlorophenyl)-4-hydroxypiperidino]					
-4'-fluorobutyrophenone					
5-thia-1-azabicyclo[4.2.0]-oct-2-ene-2					
carboxylic acid, 7-					
[(aminophenylacetyl)amino]-3-methyl-8-					
oxo, monohydrate					
dl-threo-2-(methylamino)-1-phenylpropan-					
1-0!					
N"-cyano-N-methyl-N'-[2-[l(5-methyl-1H-					
imidazol-4yl)methyl]thio]]ethyl]gunidine					