SHAMBHUNATH INSTITUTE OF PHARMACY Ist Sessional Examination 2019-2020 D. Pharm. 2nd Year Subject- HOSPITAL AND CLINICAL PHARMACY

Time: - 1.30 hrs.	Max. Marks: -2 0
Roll No	

1. Attempt any five questions:

(5X4=20)

i. Define hospital pharmacy. Explain the various functions and objectives of hospital pharmaceutical services.

Ans:-

* Hospital Pharmacy * * Hospital pharmacy is one of the most important department in a hospital. * Hospital pharmacy maybe defined as the deptt. which deals with storage, compounding, manufacturing , testing , packing & distribution of drugs. A hospital pharmacy is controlled by a * qualified pharmacist.

Function :- Pharmacy is recognized as an
essential hospital services in all the mojor
hospitals. It is managed by professionally
qualified pharmacist.
The duties are pt purchasing storing handling
& dispensing of medications drugs.
Pharmacist act as a link blue the physician
& public.
A pharmacist is required to perform
various functions in hospital pharmacy are -
* Proper storing of drugs
i distributive of any
tablets, capsules, cintments & parentral produc
* Dispensing of drugs as per the prescription of
the medical staff.
* Dispensing & sterilizing parentral preparations
* filling & labeling of all drug containers from
which medicines & to be administred.
* Management of stores in proper storage cond?
& maintiance of stecords.
* Establishment & maintaince of drug
information center.
* Objectives of Hospital P'centical Services *
A practice of hospital pharmacy started in Ind
income to the terms of proceedables the inde
in 1991 but become a mespectable discipline
only inlette objectives of Hospitals
Pharmacies are -
To ensure the availability of right medication.
at right time, in the right dose at the
minimum posible cost.

*	To the functioning of piccutical services in the hospital.
•	To act as a counselling department for medical staff, nurses & for the patient
	To act as a data bank on drug utilization
	To participate in research project to elas
	organise & implement pharmacy policy procedures in keeping with the established policies of the hospital
٠	To integrate decision of the pharmacy & therapeutic committee
•	To co-ordinate & corporate with other depth of a hospital
->	A pharmacist is required to perform various function in hospital pharmacy is are described below-
-	Providing specification for the purchase of drugs, chemicals, biological etc
•	Establishment & maintainance of drug information. center which will provide information -
	any others competent persons to deals indrays
-	- Patient counsiling service while supplying drugs specially from outpatient depth.
*	Discarding the expire drugs & centainers which worns & missing the labels
*	Providing corporation in teaching & reastanch
*	Providing drug monitoring by studying various effects of drugs administed to the patient specially the Indoor patient from patient

ii. Explain the management and health delivery system in India.

	* Management of Hospital *
	-> Planning
	- Organisation
_	→ Staffing
	- Controlling
*	Management is a process of planning, organising staffing & controlling.
*	Management principles are always some wheather it is a school club or hospital or institution
*	it needs application of management, concepts & techniques.
*	At should be given on material management finencial management, marketing management & Computer application.
	* Material Management *
*	To develope a system of supply there will be an adequate stock of items prequired But at the same time it should not be to much quantity to avoid wastage.

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	St should
	item can be easily distributed according 1
	item can be easily distributed according to
	the use of hospital.
	Procedure of Material management =>
* •	T-
	actermine it.
	To determine the categories of staff nequired estimate the quality & quantity of each ite To procure the items of and quality i
*	To procure it quantity of each ite
	-VIIIIALA WILLING WILLING WILLING
*	various sources at economical prices. Recieved items are stored properly so as
	to the stored property so as
*	to prevent wastage during storage. To develope a good control
*	To develope a good control on the stock. To develope a proper distribution a stock.
	to develope a proper that it is
	stetem.
	Store Management =>
*	St is the final
	It is the function of necessing storing &
*	Hespital of materials
*	Thotomold in the second s
	It is therefore neccessary to ensure
	accuracy preservation unsafety of
-	
*	Purchase management
	Purchase management or right quality,
	sight qty., right price & sight delivary
	Receipt of stores.
*	To siecieve check all the applies.
	Storage >> To store all the materials
	properly to avoid damage.
+ 1	ssue of material - To issue which and
e m	ssue of material = To issue materials a/c to the sequirem
2	accords of maintain. the records of material
	necieved, stored & issued
	11 11h Cone delivary Surtan in -
	* Health curre de sterre in India *
	* Health Care delivery System in India *
	* Health curic dentary system in India *
* 3	India is a union of 29 state & 3 union tenton state are largely independent in matters rela- to the delivery of health cares to the people to the delivery of health cares to the people
* 3	India is a union of 29 state & 9 union teritors state are largely independent in matters rela- to the delivery of Realth corrests the people Which states has developed its own system of fealth corre delivery , independent of the con
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Т	Concurrent list >
	hey are responsibility of both, the Union &
(Ú	State gout Brevention & extension of communicable
	diseases
cii>	labour welfare.
Ciio	economic & social planning.
(10)	Population control & family planning.
(b) A+	the state level >
0	The health subject are divided into 3 grps. Fedral grp. Concurrent
) state
	unction >
cb	Providing curative & Preventing services.
ദ്ര	Prevention of any outbreak of any communicab diseases.
(10)	Promotion of health diseases.
	Stablishing training courses for health profession.
(0)	At the local or periferal level ->
	It is basically included the local area -
funct	
	is Street lighting
	in Water Supply.
	(111) Registration of birth & death
	(iv) Sanitation of drainage
	(v) family planning.
	(vi) Health education.

iii. What is Drug Distribution System? Explain the Out-patient service. Ans:-

2. Pharmacy Controlled Sparst based System? -In Dirch System, a defined marge of dougs are maileble of in each is and is managed by the pharmacy Broff. 3- Pharmacy controlle. System:-The system that are based on about patlant Indue. In this Bystem, the drugs are isour to the patent rather than the word. an can be classed as using Dr out dose Chystem. Out patient ServiceA: - The doing distribution, to the Stripatient depart can be covoried out from the out patient dispensing areas. The displation of the dishering out strat drugs to out patient can caving out strat the dismibution of doings in Apatient depart ment ment In patient department can be located on the ground floor on first floor of the building Dout the should be hear the outpatient department and contrally located. So that the Straff can easily project these. The Pri-patient dispensing Should be carried on by a phanmeist helped by Stilled and qualiment fier Braff. In patient pharmany to a multifuction department for Browage, dispensive, reanisform

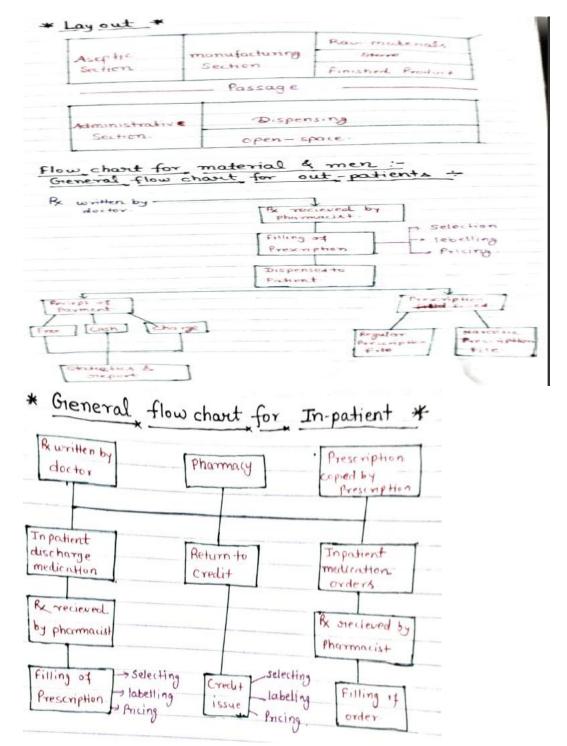
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of the building and rea for easy access by the The Should be close to the Council Digest-- ation and out patient departsments 30 -that the patients do not find any difficulty for Sta docation. For its sheation. The out-patient dispensing area Should be provided with proper areating and to needed privalizement to that if long time to needed for filling the prescription in the patient can for filling the prescription in filled. MM VAVALUTURA VA Deceipt System and phonomety may be obtained Dang I in a hospital phonomety may be obtained from one or more than one Downe as described below :dependent below :-Desuct from the manufactures Desuct from the Encloseder. By inviting the londers From local Sectorial phasemacy. 证 20 2 Rowingh aganta Morough a haspital pronchase cauta or Carpor attom Rowin local manufacturing truis of the hospitale 36 Ja-20 No medicament Shomed be issued without the prescription whitten by a competent medical stree prescription whitten by a competent medical officer. After the issue has been made the Ab well as out patient curries. If Ancesses the efficiency of phostmity depositment. Alberts and bagsules are pre-packaged he amail containers 12's, 24's 48's, 100's etc. an felloway --Demand for the product is whether the product is product is whether the equilibrium daily, oradionally, equilibrium daily, oradionally, auto blotics and product are originaded monoge-out the year where as putinal and monoge-out the year where as putinal and notes required drawinally. How many write and to be parked and tokes no of parke year to be prepared. No of parke year to be prepared. Ito near trained to be used do as to near trained to be used do as to near the product is properties of the preparations? preparations " Dhether me product to packed by hand or machine Dhether it sugarboad special sabeling Conditions. what are the conditional sugarised for the

quantities Supplied must be nerosided in the Daw sugester. A proper account must be redintatived sugarding the quantity successed and me quantity second. The difference gives the basance quantity in hand which Brand be prystally vieled for the proper maintenance of sugester and Stores. Cosit Hecovery & Bervice Charges;-The power is be charged for filling the powers spitons Charged for filling the powers spitons Charged be bradenable fair to the patients as well as its the phonomicity. The power Stand be Include the Cost of liggeradients, Container, the Inquited and preponable mangle & perdet: supportable marghe of perofit. Bie-packing of Drugs in Hospital pharmocy: In hospital pharmany me concept of pod-packing is utilized in home me lande & the Intal hospitals to fulfil the demand for pharmount fred gandia In the Ismall hospital phormalist may pou-package only those Stems which he consider will negative more time of feeled when called "In lange hospital My Is Economical to pre-package all wand stock items as well as the officient prescribed tablet. Supposed to pre-package all wand stock items as well as

- iv. Location and Layout flow chart of materials and men.
 - Ans:-

	* Location Layout *
	The pharmacy should be located in the ospital premises so that patient & staff on easily approach it. In multistore building of a hospital, the pharmacy should be located on a ground floor specially the dispensing unit.
*	Out patient pharmacy should give it appearance & must have enough space for sitting of patient, to have to wait for medicines.
*	OPD waiting room should give a professional
*	9+ should have educating posters on health & Hygiene & light litrature for reading.
*	Pharmacy space must be provided for routine, manufacturing of stock sol, bulk powder, ointment etc.
*	Pharmacy decieves material from two sources
	(ii) Monufacturing division of the Rospital.
	Medical store & manufacturing unit issue against requisition from various depts pharmacy depts. exist at quality control of materials.



v. Explain the basic needs, requirements and abilities for Hospital pharmacist. Ans:-

* Requireme	A & Atra	pilities *	
 Haspital de p diny has well-trai Haspitals Hiplamo The he be a 	pital . 34 s pital . 34 s med in the mainly depen holders in ad of Hospit post-graduate	an irr portant depti hould have compete profession of phone d upon the service	nt person, Morcy : le of
 Hathi co manufac 	mmittee have turing should	remmanded that d be done under pharm assitted	t IV. flw. r the
Bipharm	Director		-
Sug	OF	p'centical service) mnacist (triphone)
Phormacist Drug distribution deptity 8-phorms	Phormacist (Medical Store)	Tisse pharmo ist Bipharm /Disharm (Dispensing)	Post gradual for Q C - (Audity (month))

* He should have through Knowledge of	
Should have thereway knowledge of	
- basis - basis	
basis science pharmacology, toxicology, mute of administration, stability etc.	
* A hospital pharmacist must provide information	
sugarding proper handling of dryg.	
Ability to developed a manufacturing Section >	
Mfg with in a sequired control ever supply,	
quality - equipment, row material cost. Hospital pharmacist has to organise mfg. function	
by doing proper cost benefit	
gmalysix.	
Administrative ability >	
organise & control various function of hospital	R
He should prepare work shedule for his	
aturt,	
He should framed various policy & procedure	
He should interact with staff daily.	
Respital pharmacist must maintain the	
legal & administrative records arrowd	
chert pharmacist is usually stesnansible for	
interviewing, selecting & evaluating the	
staff members for work in pharmacy.	
Ability to control inventory	
+ Chill phononacist P	
+ Chill phononacist P	
* Cheif pharmacist has to exercise for	
* Cheif pharmacist has to exercise for	+
- Cheif pharmacist hor to exercise his duttes on inventories of drugs which are lying a mursing station, supplied rooms & clinicals	
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Explain the Personal and facilities requirements for Hospital pharmacist. vi.

Personal * & Facilities Requirement * Based on Individual => Facilliting > There are great variation in the size of floor space devoded to the pharmacy in hospitals of the same size & type. In smaller hospitals, with one pharmacist only one room is usually sequired for the pharmacy, having a combination of dispensing. monufacturing, administrating & all other section of a complete piceutical service. a complete p'centical service. when sterile product are to be prepared * there should be a separate noom or area for such work.

Narcotic safe with manufally licker drayer Self space for pharmacy liberary. Dispensing window for nurses & out patient. The parentrals are prepared in a separate The parentials are prepared in a separat storm in large hospitals. Depending upon the type of manufacturing under taken in a haspital, with equipment such as cintments mills, mixing machines, fibres, powders mixtures, granulator, toblet compressing machine & filter presser may be considered for instalation in the hospital. Personal => The organised haspital pharmacy depth has an integrated setup consisting of dispensing section, manufacturing section, quality control section & clinical Pharmacy. There are no standard rules regarding the in polien pharmacy depth &. statistics the nature & quantum of services to be provided that the govern of personal requirement. The ne. of pharmacist orequired for a hospitals are calculated on the basis of work load, like the no. of prescription. recieved & disponsed, no. of bed available. For a very small hospital min^m of 3-pharmatist are neguired. As the no. of beds increases, the ne. of pharmacist also increases.

- * The pharmacist should possess adiquate pharmacy qualification & experience The following the suggested staff pattern
 - of pharmocist.

Charmacist Requirement =>

sed Strength	<u>No.ef</u> Pharmacist Gequired
Upto 50 Beds	3
Upto los Beda	5
Upto Roc Beds	8
Lipto Bee Beers	10
Worte soc seels.	15

- * If the pharmory is also involved in the mfg of drugs & an adequate no of pharmary technicians , mesistant, peans . it may be required.
- * Boin measurable & non-measurable work load Should be taken into the consideration. for the determining the personal requirement of the pharmony requirement.

	in sq. feet) (1		
1 (store room)	(Dispensory)	3 (office)	+ T.
••B-450	100B-350	1000	(man-facturing
See B - 1000	3008 - 500	1008-110	compression
700 B- 2400	700 8 - 800	300 3-150	700 B- 300
	1000	0 100	(For capsule)
			7003-200
	ſ		(for tablet)
No.			
1 Jan	ufacture	Pa	rentrald
	r aseptic.		
Cond		300	B- 600
	- 250	700	3 - 600.
700 B	- 250		
	11		
-1 P			
- nequi	rement on the b	ed strength	·
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Fautoman	+		
Equipmen	The usual	equipments a	ne-
* Proc			
TTESC	cription care.		
* Calinal	al drawger cabine	ts with cubbon	and pases
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	t to store mor	TO T CA DOULLA	
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