

Seat No. _____

GANPAT UNIVERSITY
PH. D. ENTRANCE TEST – 2017
FACULTY OF PHARMACY

Max. Marks: 50

Instructions:

1. Answer all the questions. 2. Each question carries 1 mark.

SECTION – B

- 1) The tetracycline is
A) Neutral in nature B) Basic in nature C) Acidic in nature D) Amphoteric in nature
- 2) Acidity of ascorbic acid is due to the presence of
A) Free carboxylic acid B) a number of hydroxyl groups C) enolic groups
D) None of above
- 3) Which one of these alkaloids is optically inactive?
A) Nicotine B) Papaverine C) Moscapine D) Conine
- 4) Which one of these is known as wood sugar
A) Xylose B) Amylose C) Maltose D) Cellulose
- 5) 'Kumari' is common name for
A) Rhubarb B) Senna pod C) Aloe D) None of them
- 6) Wagner's test is used to detect the presence of
A) Steroid B) Alkaloid C) Glycoside D) Tannin
- 7) The yellow color of the Arachis oil is due the presence of
A) Carotenoids B) Sterols C) Flavanoids D) Squalene
- 8) Penicillinase resistant penicillin is
A) Penicillin V B) Methicillin C) Amoxycillin D) Ampicillin
- 9) Phenobarbitone is metabolic product of
A) Amobarbital B) Barbitone C) Primidone D) Pyrimidine
- 10) Which is aserotonin antagonist?
A) Mepyramine B) Antazoline C) Triprolidine D) Cyproheptadine
- 11) Amikacin is semisynthetic derivative of
A) Kanamycin B) Gentamycin C) Erythromycin D) Tobramycin
- 12) Which vasodilator is also used to stimulate hair growth?
A) Hydralazine B) Minoxidil C) Sodium nitroprusside D) Diazoxide
- 13) Which of the following drug causes cardiomyopathy?
A) Daunorubicin B) Doxorubicin C) Dactinomycin D) Bleomycin
- 14) Bacterial inhibitor of protein synthesis is
A) Nafcillin B) Tetracycline C) Gentamycin D) Penicillin-G
- 15) The essential structural unit for the anthelmintic activity of mabendazole is
A) Benzoyl group B) Methyl carbamate C) Benzimidazole D) Imidazole

- 16) Baclofen is a
 A) Analgesic drug B) Analgesic and anti-inflammatory drug C) Skeletal muscle relaxant drug D) Analgesic and antipyretic drug
- 17) One of the following listed ACE inhibitor is not a prodrug. Identify
 A) Quinapril B) Benzepril C) Captopril D) Ramipril
- 18) A metabolite of spironolactone is
 A) Aldosterone B) Cortiscosterone C) Canrenone D) Pregnenolone
- 19) Which of the following is 15-membered macrolide?
 A) Roxithromycin B) Azithromycin C) Clarithromycin D) Erythromycin
- 20) Captopril contains which of the following amino acid residue
 A) Proline B) Leucine C) Valine D) Isoleucine
- 21) The anticoagulant heparin is obtained from
 A) Dog's kidney B) Rat's uterus C) Rabbit's heart D) Sheep's lung
- 22) Cycloserine contains which of the following ring
 A) Oxazole B) Isoxazole C) Imidazole D) Pyrrole
- 23) Acacia tragacanth (binder) is used in concentration of
 A) 10-25% B) 60-70% C) 40-50% D) 90%
- 24) Manufacturing of aerosol involves
 A) Gas filling B) Pressure filling C) Compressed gas filling D) All of above
- 25) Aromatic waters are prepared by
 A) Condensation B) Distillation C) Maceration D) Double or triple maceration
- 26) Plastics are normally sterilized with
 A) Steam under pressure B) Dry heat C) Ethylene oxide D) Autoclaving
- 27) The instrument used to measure particle volume is
 A) Coulter counter B) Microscope C) Hempel burette D) Helium densitometer
- 28) Titanium dioxide is added in
 A) Cold cream B) Night creams C) Sun cream D) Moisturizing cream
- 29) The bioavailability of drug can be evaluated by measuring
 A) Area under curve B) Minimum effective concentration C) Peak plasma drug level D) Time for peak plasma drug level
- 30) State pharmacy council should have the following number of elected members
 A) Six B) Nine C) Five D) Seven
- 31) Drug inspector is appointed under the section of the act
 A) 19 B) 42 C) 21 D) 30
- 32) Gas chromatographic technique can be used for
 A) Qualitative analysis only B) Quantitative analysis only C) Both (a) and (b) D) None of these
- 33) One of the following is measured in amperometric titration
 A) Resistance B) Current C) Voltage D) Conductance
- 34) o, m and p-isomers can be differentiated on the basis of
 A) Chemical shift B) Coupling constant C) Extinction coefficients D) Dipole moment
- 35) Methyl orange has a pH range of
 A) 2.2 to 4.0 B) 4.4 to 5.4 C) 3.2 to 4.4 D) 4.2 to 6.2

- 36) Bathochromic shift is also known as
 A) Blue shift B) Red shift C) Yellow shift D) Green shift
- 37) Molecular ion peak is also known as
 A) Base peak B) Daughter peak C) Parent ion D) Metastable peak
- 38) The correct order of components of flame photometer is
 A) Flame → Detector → Monochromator → Mirror → Read out device
 B) Flame → Monochromator → Detector → Mirror → Read out device
 C) Flame → Mirror → Monochromator → Detector → Read out device
 D) Flame → Monochromator → Mirror → Detector → Read out device
- 39) Which of the following groups tend to decrease the fluorescence of a molecule
 A) -NO₂ B) -COOH C) -Br D) All
- 40) Which one is universal developing agent in TLC
 A) Picric acid B) Chromic acid C) Sulphuric acid D) Potassium permanganate
- 41) The average life of a red blood cell is about
 A) 14 days B) 3 weeks C) 1-2 months D) 4 months
- 42) Iron in the form of ferritin is stored in the
 A) Liver B) Spleen C) Bone marrow D) Intestinal mucosa
- 43) The amino acid that is an important precursor of hemoglobin is
 A) Alanine B) Glycine C) Histidine D) Leucine
- 44) Which element is involved in prosthetic group of cytochrome oxidase?
 A) Cobalt B) Iron C) Copper D) Zinc
- 45) Man can not synthesize vitamin
 A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin D
- 46) The average pH of urine is
 A) 5.6 B) 6.0 C) 6.4 D) 6.8
- 47) Removal of which glands results in low calcium level in blood and leads to tetany and Death
 A) Thyroid B) Endocrine C) Adrenal D) Parathyroid
- 48) For thermophilic microorganism, the minimum growth temperature required is
 A) 20 degree B) 32 degree C) 45 degree D) 65 degree
- 49) Passive immunity usually gives which of the following protection to the patient
 A) Complete B) Long term C) Short term D) Undetermined
- 50) Which one of these is not a live viral vaccine?
 A) Smallpox B) Yellow fever C) Typhus D) Measles

————— END OF PAPER —————

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SECTION – B

ANSWER KEY

QUESTION NO.	ANSWER	QUESTION NO.	ANSWER
01	C	26	C
02	C	27	A
03	B	28	C
04	D	29	A
05	C	30	D
06	B	31	C
07	A	32	C
08	B	33	B
09	C	34	B
10	D	35	C
11	A	36	B
12	B	37	C
13	A	38	C
14	C	39	D
15	B	40	D
16	C	41	D
17	A	42	C
18	C	43	B
19	B	44	C
20	A	45	C
21	D	46	B
22	B	47	D
23	A	48	D
24	C	49	C
25	B	50	C