

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences First Year (Semester-I)

January – 2018 Examination

Time : 2 Hrs.

[Max. Marks : 50]

ANATOMY-I

(General Anatomy, Histology & Embryology)

Q.P Code : BAHS101CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any Two)

2 X 10 = 20 Marks

1. Name the bones of axial skeleton and describe the histology of compact bone.
2. Describe the systemic and pulmonary circulation in detail.
3. Classify muscles with example and describe any one of them in detail.

SHORT ESSAY

3 X 5 = 15 Marks

4. Structure of lymph node.
5. Fertilization.
6. Pericardium.

SHORT ANSWERS

5 X 3 = 15 Marks

7. Name the bones of lower limb.
8. Draw and label microscopic structure of hyaline cartilage.
9. Name the openings in the right atrium.
10. Name the neuroglial cells.
11. Draw a neat and labeled diagram of neuron.

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ANATOMY - II

(Systemic Histology and Gross Anatomy)

Q.P Code : BAHS102CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any Two)

2 X 10 = 20 Marks

1. Name the endocrine glands. Discuss pituitary gland.
2. Name the organs of respiratory system. Discuss lung.
3. Name the male reproductive organs. Discuss testis.

SHORT ESSAY

3 X 5 = 15 Marks

4. Middle ear.
5. Lacrimal apparatus.
6. Liver.

SHORT ANSWERS

5 X 3 = 15 Marks

7. Meninges.
8. Draw a neat labeled diagram of thick skin.
9. Name the cranial nerves in an order.
10. Draw a neat labeled diagram of lateral wall of nose.
11. Pancreas.

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PHYSIOLOGY-I

(Physiological functions of the body)

Q.P Code : BAHS103CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any Two)

2 X 10 = 20 Marks

1. Define erythropoiesis. With a neat diagram describe the stages of erythropoiesis. List the factors affecting erythropoiesis.
2. List the movements of gastro intestinal tract and explain them with neat labeled diagrams.
3. Define blood pressure. Give the normal values. Describe in detail long term regulation of blood pressure.

SHORT ESSAY

3 X 5 = 15 Marks

4. Define GFR. Normal value of GFR. Determinants of GFR.
5. Define a) Hypoxia b) Dyspnoea c) Cyanosis d) Asphyxia e) Artificial respiration.
6. Define cardiac output. Give the normal value of cardiac out. List the effect of exercise on the heart.

SHORT ANSWERS

5 X 3 = 15 Marks

7. What is normal bleeding time? Mention two causes for increase in bleeding time.
8. Define jaundice. Classify jaundice.
9. Landsteiner's law of blood grouping.
10. Lead II ECG depicting various waves and intervals.
11. Three differences between obstructive and hemolytic jaundice.

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[Max. Marks : 50]

PHYSIOLOGY-II

(Physiology of hormonal and regulatory function)

Q.P Code : BAHS104CC

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any Two)

2 X 10 = 20 Marks

1. Mention the hormones of pituitary and write their functions.
2. Explain the steps of spermatogenesis and factors influencing it.
3. Write functions of cerebellum, cerebral cortex, thalamus, hypothalamus.

SHORT ESSAY

3 X 5 = 15 Marks

4. List the functions of CSF. Add a note on lumbar puncture.
5. Give the normal value of serum calcium. List the hormones regulating serum calcium levels.
6. List the refractive errors and give their corrections.

SHORT ANSWERS

5 X 3 = 15 Marks

7. Draw a neat labeled diagram of a reflex arc.
8. Define synapse.
9. List the primary taste sensations.
10. List the types of muscle fibres.
11. Contraceptive methods in females.

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B.Sc. Allied Health Sciences First Year Semester-I

January 2018 Examination

Time : 2 Hrs.

[Max. Marks: 50]

BASIC COMPUTER APPLICATIONS

Q.P Code: BAHS101FC

Your answers should be specific to the questions asked.

Choose and write the correct answer from the choice

1. **Latency time is**
 - a) Time to spin the needed data under head
 - b) Time to spin the needed data under track
 - c) Time to spin data under sector
 - d) All of above
2. **Which language is directly understood by the computer without translation program?**
 - a) Machine language
 - b) Assembly language
 - c) High level language
 - d) None of above
3. **A compiler is a translating program which**
 - a) Translates instruction of a high level language into machine language
 - b) Translates entire source program into machine language program
 - c) It is not involved in program's execution
 - d) All of above
4. **A name or number used to identify the storage location devices?**
 - a) A byte
 - b) A record
 - c) An address
 - d) All of above
5. **I/O is the communication between ____ and the outside world.**
 - a) Internet system
 - b) Medical system
 - c) Programming
 - d) Information processing system
6. **Secondary storage memory type is**
 - a) Volatile memory
 - b) Non-volatile memory.
 - c) Backup memory.
 - d) Impact memory
7. **The computer size was very large in**
 - a) First Generation
 - b) Second Generation
 - c) Third Generation
 - d) Fourth Generation
8. **Which of the following is not a form of data**
 - a) Numbers and characters
 - b) Images
 - c) Sound
 - d) None of the above
9. **EEPROM stands for**
 - a) Electrically Erasable Programmable Read Only Memory
 - b) Electronic Erasable Programmable Read Only Memory
 - c) Easily Erasable Programmable Read Only Memory
 - d) None of the above
10. **Fifth generation computer is also known as**
 - a) Knowledge information processing system
 - b) Very large scale integration
 - c) Both a and b
 - d) None of the above

P.T.O

- 11. Operating system is the most common type of _____ software**
 a) Communication
 b) Application
 c) System
 d) Word processing software
- 12. To insert three columns between columns D and E you would**
 a) Select column D
 b) Select column E
 c) Select columns E, F and G
 d) Select columns D, E, and F
- 13. How many times you can save a word document**
 a) 3 b) 4
 c) 5 d) 6
- 14. What is the default extension for all word documents**
 a) .txts
 b) .word
 c) .docs
 d) .docx
- 15. Ctrl+Z**
 a) Undo the last action
 b) Redo the last action
 c) Add the new page
 d) Paste the contents from clipboard
- 16. Power point presentations are widely used as**
 a) Note outlines for teachers
 b) Project presentations by students
 c) Communication of planning
 d) All the above
- 17. Which of the following is a characteristic of multimedia system**
 a) High storage
 b) High data rates
 c) Both a and b
 d) None of the above
- 18. MIDI stands for**
 a) Musical Internet Digital Interface
 b) Musical Internet Digital Interrupt
 c) Musical Instrument Digital Interface
 d) Musical Instrument Download Interface
- 19. Viruses**
 a) Another form of computer attack
 b) Designed to spread into other programs
 c) Cause system crash and program malfunction
 d) All the above
- 20. In Internet terminology IP means**
 a) Internet Provider
 b) Internet Protocol
 c) Internet Procedure
 d) Internet Processor
- 21. The structure or format of data is called**
 a) Syntax
 b) Semantics
 c) Structure
 d) None
- 22. What is bandwidth in network**
 a) Transmission capacity of a communication channel
 b) Connected computers in the network
 c) Class of IP used in network
 d) None
- 23. Bus, Ring and Star topologies are mostly used in**
 a) LAN b) MAN
 c) WAN d) Internetwork
- 24. Bluetooth is an example of**
 a) Personal Area Network
 b) Local Area Network
 c) Virtual Area Network
 d) None of the above
- 25. Star topology is based on a central device that can be**
 a) Hub b) Switch
 c) Only a d) Both a and b

P.T.O

26. Which of the following is not a networking device

- a) Gateway b) Ubuntu
- c) Router d) Firewall

27. A Repeater connects segments of same

- a) WAN
- b) Wireless network
- c) LAN
- d) MAN

28. In Modems

- a) Analog signal is amplified
- b) Digital signal is amplified
- c) Several Digital signals are multiplexed
- d) A Digital signal changes some characteristics of a carrier wave

29. A Wi-Fi enabled device can be

- a) PC
- b) Game console
- c) Mobile Phone
- d) All the above

30. The Bluetooth supports

- a) Point-to-point connections
- b) Point-to-multipoint connections
- c) Both a and b
- d) None of the above

31. Set of operations carried on to process gathered data is called

- a) Information technology
- b) Information cycle
- c) Data processing cycle
- d) None of the above

32. Printer in which output is printed by using light beam and particles of ink infused on paper is

- a) Dot-matrix printer
- b) Line printer
- c) Laser printer
- d) Inkjet printer

33. A source program is a program written in ____ language

- a) English b) Symbolic
- c) High level d) Object

34. A collection of wires that connects several devices is called

- a) Bus
- b) Link
- c) Cable
- d) Port

35. Simultaneous transmission of data to a number of stations is known as

- a) Broadcast
- b) Bandwidth
- c) ALOHA
- d) Analog transmission

36. Cursor is a

- a) Pixel
- b) Thin blinking line
- c) Pointing device
- d) None of these

37. EMG stands for

- a) Electromyography
- b) Electromythology
- c) Electromyopathy
- d) None of the above

38. Computers are applicable in the field of

- a) Defense
- b) Library
- c) Museum
- d) All of the above

39. OCR is an abbreviation for

- a) On-demand character reader
- b) Objective character reader
- c) Optical character reader
- d) None of the above

- 40. Cache memory stores**
a) Frequently re-referenced program instructions
b) Frequently used memory allocations
c) Rarely re-referenced program instructions
d) Rarely used memory allocations
- 41. Cache memory evolved from**
a) EPROM
b) PROM
c) EPROM and PROM
d) EPROM and EEPROM
- 42. Correct abbreviation for a Blu-ray disc is**
a) BR
b) BD
c) BRD
d) RBD
- 43. In static and dynamic memory allocation, memory is allocated during ____ time respectively**
a) Execution & compilation
b) Compilation & execution
c) Declaration & compilation
d) None of the above
- 44. The rotation speed of a hard disk is measured in**
a) Rotations per minute
b) Revolutions per minute
c) Round per minute
d) None of the above
- 45. URL in internet stands for**
a) Unified Resource Locator
b) Uniform Resource Locator
c) Uniform Resource Link
d) Unified Resource Link
- 46. In which generation of computers was IC's implemented**
a) 1st
b) 2nd
c) 4th
d) 3rd
- 47. Which of the following is not a type of operating system**
a) Real time
b) Embedded
c) Batch
d) None of the above
- 48. WWW stands for**
a) World Wide Weather
b) World Wide Web
c) World With Web
d) World Web Wide
- 49. Light pen works best with ____ display**
a) LCD
b) LED
c) CRT
d) All the above
- 50. Touch screen is**
a) Input device
b) Output devices
c) Both a and b
d) None of the above

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