

GENESIS

(Post Graduation Medical orientation Centre)

Exam : Review_Exam_Pathology_Foundation_2020

Class/Chapter :

Total Mark : 100
Pass Mark : 70

Question 1 to End is Based on Single Answers

Time : 6000 Min
Date : 2020-11-13

1. Liquefaction associated with necrosis, occurs after infarction of the

- a). a) Heart
- b). b) Kidney
- c). c) Brain
- d). d) Liver
- e). e) Spleen

CCCCC

3. A histopathologist report fat necrosis after examining a slide .Fat necrosis might be found in which one of the following situation

- a). a) Brain injury
- b). b) Muscle injury
- c). c) Trauma to the abdomen
- d). d) Traumatized the breast
- e). e) Traumatized the bowel

DDDDD

5. Gas gangrene is most commonly caused by

- a). a) Clostridium perfringens
- b). b) Clostridium novii
- c). c) Clostridium septicum
- d). d) Clostridium histolyticum
- e). e) Clostridium botulinum

AAAAA

7. Which of the followings is not a common cause of metastatic calcification?

- a). a) Warfarin
- b). b) Secondary hyperparathyroidism
- c). c) Meningioma
- d). d) Milk alkali syndrome
- e). e) Hyperthyroidism

CCCCC

9. Hypertrophy & hyperplasia both occurred in

- a). a) Lungs
- b). b) Heart
- c). c) Thyroid
- d). d) Liver
- e). e) Ovary

CCCCC

11. Most common cause of Down's Syndrome-

- a). a) Non-disjunction
- b). b) Mosaicism
- c). c) Robertsonian translocation
- d). d) Chromosomal deletion
- e). e) Chimerism

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13. X linked recessive disorder is-

- a). a) Congenital adrenal hyperplasia
- b). b) Haemochromatosis
- c). c) Adrenoleucodystrophy
- d). d) Spinal muscular atrophy
- e). e) Wilson's disease

CCCCC

2. On day 28 of her menstrual cycle, a 23-year-old woman experiences onset of menstrual bleeding that lasts for 6 days. She has had regular cycles for many years. Which of the following processes is most likely occurring in the endometrium just before the onset of bleeding?

- a). a) Apoptosis
- b). b) Caseous necrosis
- c). c) Heterophagocytosis
- d). d) Atrophy
- e). e) Liquefactive necrosis

AAAAA

4. A 35yrs old man is a habitual smoker. If a biopsy is taken from the respiratory tract in this man, the epithelium of respiratory tract is most likely to show:

- a). a) Mucous hyperplasia
- b). b) Smooth-muscle hyperplasia
- c). c) Squamous cell anaplasia
- d). d) Squamous cell hypertrophy
- e). e) Stratified squamous metaplasia

EEEEEE

6. Which of the following cell changes associated with injury is most likely to be accompanied by disruption of the cell membrane?

- a). a) Apoptosis
- b). b) Cloudy swelling
- c). c) Coagulative necrosis
- d). d) Hydropic change
- e). e) Pyknosis

FFTF

8. The illustration shows a section of the heart from a 45-year-old African-American man with long-standing hypertension who died of a "stroke" Which of the following adaptive changes is exemplified in the illustration?

- a). a) Aplasia
- b). b) Atrophy
- c). c) Hyperplasia
- d). d) Hypertrophy
- e). e) Hypoplasia

DDDDD

10. O₂ is neutralized by

- a). a) Glutathione peroxidase
- b). b) Superoxide dismutase
- c). c) Peroxyredoxin
- d). d) Catalase
- e). e) Glucose-6-phosphate dehydrogenase

BBBBB

12. Which one is Trisomy 13?

- a). a) Edwards syndrome
- b). b) Patau's syndrome
- c). c) Down's syndrome
- d). d) Turner's syndrome
- e). e) Klinefelter's syndrome

BBBBB

14. All of the following are safe techniques that can be used in prenatal diagnosis of genetic disorders except

- a). a) Amniocentesis
- b). b) Ultrasound
- c). c) Chorionic villus sampling (CVS)
- d). d) Radiography
- e). e) Maternal serum screening

FFTF

15. A stillborn fetus born in 23 wks of gestation is found to be have as oedematous neck & broad chest autopsy reveals coarctation of aorta, bicuspid aortic valve, both kidney are fused in midline. which of the following is karyotyping abnormality of fetus.

- a). a) Trisomy 21
- b). b) Trisomy 18
- c). c) Trisomy 13
- d). d) 47,xxx
- e). e) 45XO

EEEE

17. An abnormal human male phenotype involving an extra X chromosome is a case of--

- a). a) Triple X syndrome
- b). b) Fragile X syndrome
- c). c) Klinefelter syndrome
- d). d) Super male
- e). e) Intersex

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19. The presence of non-caseating granulomas and hypercalcaemia is most suggestive of?

- a). a) Histoplasmosis
- b). b) Sarcoidosis
- c). c) Tuberculosis
- d). d) Berylliosis
- e). e) Eosinophilic granuloma

BBBB

21. In an experiment, Streptococcus pneumoniae organisms are added to a solution containing leukocytes. Engulfment and phagocytosis of the microbes is observed to occur. A substance is then added that enhances engulfment. Which of the following substances is most likely to produce this effect?

- a). a) Complement C3b
- b). b) Glutathione peroxidase
- c). c) Immunoglobulin M
- d). d) P-selectin
- e). e) NADPH oxidase

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24. A 16-year-old boy with a 1-day history of sore throat was seen by his GP. On physical examination, the most prominent finding was a pharyngeal purulent exudate) Which of the following types of inflammation does this boy have?

- a). a) Acute inflammation
- b). b) Abscess formation
- c). c) Chronic inflammation
- d). d) Granulomatous inflammation
- e). e) Resolution of inflammation

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27. Which of the following cells is an example of a permanent cell, on the basis of a classification according to regenerative ability ?

- a). a) Acinar cell of the pancreas
- b). b) Colonic mucosal cell
- c). c) Cardiocyte
- d). d) Hepatocyte

16. A 25 yrs male has a work-up for infertility and found to have oligospermia) Physical examination findings include bilateral gynecomastia, reduced testicular size, and reduced body hair. Karyotypic analysis will most likely reveal which of the following abnormalities?

- a). a) 46,X,i(Xq)
- b). b) 47,XXY
- c). c) 47,XXY
- d). d) 46XX/47XX,+21
- e). e) 46XY,del(22q11)

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18. If both parents are carrier for thalassaemia, what are the chances of pregnancy resulting in an affected child?

- a). a) 0%
- b). b) 25%
- c). c) 50%
- d). d) 75%
- e). e) 100%

BBBB

20. A woman is stung by a bee. Within 5 minutes, she develops a raised, red swollen lesion at the site of injury, 2cm in size. Which of the following findings is most likely to be seen in this lesion?

- a). a) Foreign body reaction
- b). b) Haemorrhage
- c). c) Lymphocytic infiltration
- d). d) Neutrophilic migration
- e). e) Vasodilation

EEEE

22. Which one causes Pain in Acute inflammation?

- a). a) TNF
- b). b) Histamin
- c). c) LT C4
- d). d) Prostaglandin
- e). e) Reactive o2 species

DDDD

23. A patient presented with cervical lymphadenopathy. On FNAC, which criteria is mostly accepted in diagnosis of Tuberculosis

- a). a) Caseation
- b). b) Langhan's type of giant cell
- c). c) Epithelioid cell
- d). d) Lymphocytes
- e). e) Fibroblast

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25. Which is not the systemic effect of inflammation?

- a). a) Leukopenia
- b). b) High albumin
- c). c) Fever
- d). d) Increased hepcidin
- e). e) Decreased sweating

BBBB

26. Stellate granuloma found in

- a). a) Sarcoidosis
- b). b) Cat-scratch disease
- c). c) Leprosy
- d). d) Gumma
- e). e) Crohn's disease

BBBB

28. Granulation tissue is more prominent in

- a). a) Regeneration
- b). b) Acute inflammation
- c). c) Healing by secondary union
- d). d) Healing by primary union (Granulation tissue is more prominent in healing by secondary union)
- e). e) Physiological hypertrophy

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e). e) Osteocyte
CCCCC

30. Which is not the complication of wound healing

- a). a) Infection
 - b). b) Recanalization
 - c). c) Desmoid
 - d). d) Cicatrization
 - e). e) Keloid
- BBBBB**

32. Lines of Zahn can be most commonly seen in thrombi of which organ?

- a). a) Liver
 - b). b) Kidney
 - c). c) Brain
 - d). d) Heart
 - e). e) Spleen
- DDDDD**

35. Two days following a cholecystectomy, a 32-year-old hospitalized woman has sudden onset of dyspnea, pleural pain, and cough productive of frothy, blood-tinged sputum. Ventilation-perfusion scintigraphy indicates a perfusion defect. If it were possible to examine a portion of the affected lung, which of the following would most likely have been found?

- a). a) Air embolism
 - b). b) Anemic (white or pale) infarct
 - c). c) Disseminated intravascular coagulation (DIC)
 - d). d) Generalized thrombosis
 - e). e) Hemorrhagic (red) infarct
- EEEE**

38. Best comparison between sarcoma and carcinoma

- a). a) Lung is commonest site of metastasis in case of both carcinoma and sarcoma
 - b). b) Haemorrhage and necrosis is more in carcinoma, as it contains numerous vessels
 - c). c) Blood borne metastasis is not uncommon in carcinoma but more rapid than sarcoma
 - d). d) Sarcoma rare in old age but carcinoma is common
 - e). e) Carcinoma is epithelial in origin while sarcoma mesenchymal
- TFFTT**

29. Post operative infection delays wound healing because

- a). a) The wound becomes packed with leucocytes
 - b). b) Many of the organisms involved produce spreading factor which may destroy the intercellular ground substance
 - c). c) Collagen is destroyed
 - d). d) Capillary loops fail to develop
 - e). e) Fibroblast diminished in number
- CCCCC**

31. Which of the following would not cause edema?

- a). a) Decreased hydrostatic pressure
 - b). b) Hypoproteinemia
 - c). c) Lymphatic obstruction
 - d). d) Na retention
 - e). e) Inflammation
- AAAAA**

33. Component of virchow's triad

- a). a) Hyper coagulability of blood
 - b). b) Alteration of body temperature
 - c). c) Alteration of CNS function
 - d). d) Smooth endothelial surface
 - e). e) Normal blood flow
- AAAAA**

34. Feature of progressive stage of shock is

- a). a) Bradycardia
 - b). b) Lactic acidosis
 - c). c) Fever
 - d). d) Acute tubular necrosis (ATN occurs in irreversible stage of shock)
 - e). e) Vasoconstriction (Metabolic acidosis blunts vasomotor response & causes arteriolar dilatation)
- BBBBB**

36. A bedridden elderly patient experiences the sudden onset of pleuritic pain and hemoptysis. The underlying lesion that led to this complication was most likely located in which of the following sites?

- a). a) Hepatic veins
 - b). b) Lower extremity veins
 - c). c) Pelvic veins
 - d). d) Portal vein
 - e). e) Pulmonary veins
- BBBBB**

37. A Study was performed to analyze characteristics of malignant neoplasms in biopsy specimens. The biopsies were performed on patients who had palpable mass lesion in the breast. Of the following microscopic findings, which is most likely to indicate that the neoplasm is malignant?

- a). a) Atypia
 - b). b) Increased nuclear/cytoplasmic ratio
 - c). c) Invasion
 - d). d) Necrosis
 - e). e) Pleomorphism
- CCCCC**

39. You are reading a histopathology report which describes an excised lesion as a premalignant condition. Which of the following is a premalignant condition?

- a). a) Acne
 - b). b) Familial polyposis
 - c). c) Keloid
 - d). d) Solar keratosis
 - e). e) Villous adenoma of colon
- DDDDD**

40. Regarding malignancy which is the most common malignancy which metastasize to spine

- a). a) Breast
- b). b) Lung
- c). c) Prostate
- d). d) Renal or Gastro intestinal

41. Bony metastasis are common in carcinoma of all of the following except:

- a). a) Uterus
- b). b) Breast
- c). c) Lungs
- d). d) Prostate
- e). e) Kidney

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44. 38yearold woman presented with an enlarging pelvic mass that extended to the umbilicus. On clinical examination, on pathological abnormalities of the gastrointestinal tract were revealed. Which tumour marker is likely to be raised?

- a). a) CA125
- b). b) CEA
- c). c) hCG
- d). d) HER2
- e). e) P53s

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47. CA125 tumour marker may be found raised in all of the following except

- a). a) Ovarian carcinoma
- b). b) Choriocarcinoma
- c). c) Breast cancer
- d). d) Liver cancer
- e). e) Pregnancy

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49. A 54yearold Caucasian male with twoyear history of stable alcoholic cirrhosis experiences progressive abdominal distention, malaise and anorexia despite complete abstinence from alcohol. He has a prior history of intravenous drug use. His serum alphafetaoprotein level (AFP) has increased substantially over the last six months. This patient most likely suffers from:

- a). a) Viral hepatitis C
- b). b) Hemochromatosis
- c). c) Hepatocellular carcinoma
- d). d) Hepatic abscess
- e). e) Hepatocellular adenoma

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e). e) Thyroid

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42. Regarding p53 gene

- a). a) It is associated with adult malignant tumours only
- b). b) It arrests cell cycle in G1 phase
- c). c) It is stimulated by ionizing radiation
- d). d) It is located in chromosome 21
- e). e) It is a tumour suppressor gene

FTTFT

43. Which of the following is not a hormone producing tumour?

- a). a) Ovarian dermoid
- b). b) horiocarcinoma
- c). c) Bronchial carcinoma
- d). d) Granulosa cell tumour of ovary
- e). e) Renal cell carcinoma

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45. Which of the following viruses is NOT associated with cancer in humans?

- a). a) HIV (human immunodeficiency virus)
- b). b) Hepatitis B virus (HBV)
- c). c) Human papilloma virus (HPV)
- d). d) Herpes zoster virus (HZV)
- e). e) EpsteinBarr virus (EBV)

DDDDD

46. Reversible loss of polarity with abnormality in site & shape of cell is known as

- a). a) Metaplasia
- b). b) Dysplasia
- c). c) Hyperplasia
- d). d) Anaplasia
- e). e) Neoplasia

BBBBB

48. Following paraneoplastic syndrome is associated with Hypercalcaemia except

- a). a) Breast carcinoma
- b). b) Renal carcinoma
- c). c) Pancreatic carcinoma
- d). d) Adult T cell leukemia
- e). e) Lymphoma

CCCCC

50. Which one of the followings is not associated with EBV infection?

- a). a) Nasopharyngeal carcinoma
- b). b) Oral hairy leukoplakia
- c). c) Barkitt's lymphoma
- d). d) Hodgkin's lymphoma
- e). e) Infections mononucleosis

DDDDD