

Q.2 Write short answers to any Twelve (12) of the following questions.

12 × 2 = 24

1. Draw a symbol for steel.



سٹیل کا سبیل بتائیں۔

2. Describe standard arrow head and its parts.

تیر کے معیاری نشان اور اس کے حصوں کو بیان کریں۔  
 جواب: تیر کی لمبائی اور چوڑائی اس کے 1:3 ہوتی ہے اور پریش 1:3 ہوتی ہے۔ اور اس کو H شکل سے بنایا جاتا ہے۔

3. Describe any two conventional breaks with the help of sketches.

خاکہ کی مدد سے کوئی دو روایتی ریکس بیان کریں۔  
 جواب: جب کسی Object کو ڈرائنگ شیٹ پر دیکھنا مقصود ہو مگر چم کم ہو تو اس کو چھوٹا کر کے بنایا جاتا ہے۔ اس Object کی لائنوں کو توڑ کر دکھانے کے عمل کو ٹوٹل ریکس کہتے ہیں۔



4. State the difference between frustum and truncation.

فرسٹم اور ٹرنکیشن کے درمیان فرق بیان کریں۔  
 جواب: فرسٹم: جب کسی سولڈ کو اس کے قاعدے کے متوازی کاٹا جائے تو باقی ماندہ حصہ فرسٹم کہلاتی ہے۔  
 ٹرنکیشن: جب کسی سولڈ کو اس کے قاعدے کے ساتھ کسی بھی زاویہ پر کاٹا جائے تو باقی ماندہ حصہ ٹرنکیشن کہلاتا ہے۔

5. Define a line of intersection.

لائن آف انٹر ایکشن کی تعریف کریں۔  
 جواب: انٹریکٹنگ Objects، ہائڈز، مختلف سولڈز یا سطحوں کے ملنے سے بنتے ہیں۔ جس جگہ پر یہ آپس میں ملتے ہیں تو یہیں پر ایک لائن دکھائی دیتی ہے جسے جنگلی بناؤٹ کا داروہ دہارنے والی سطحوں کی مابین پر ہوتا ہے۔ اس کو لائن آف انٹر ایکشن کہتے ہیں۔

6. Define sectioning.

سیکشننگ کی تعریف کریں۔  
 جواب: Object کو تصوراتی طور پر کاٹنے کے بعد اس کی ڈرائنگ بنائی جاتی ہے اس کیلئے بھیجی ہوئی لائنوں کی بجائے Objects لائننگ کر اس جگہ کی سیکشن لائنیں لگادی جاتی ہے۔ اس عمل کو سیکشننگ کہتے ہیں۔

7. State the purpose of sectioning.

سیکشننگ کے مقاصد بیان کریں۔  
 جواب: جب کوئی Object پیچیدہ ہو اور آسانی سے سمجھ میں نہ آئے تو اس کی ڈرائنگ کچھ حصوں بنائی۔ اس مشکل کو دور کرنے کیلئے اس Object کی سیکشننگ کی جاتی ہے تاکہ ڈرائنگ کچھ تیار ہو سکے۔

8. Define fasteners and name its types.

فاسٹنر کی تعریف کریں اور ان کی اقسام کے نام لکھیں۔  
 جواب: یہ ایک پیچا پر زہ ہوتا ہے جس کی مدد سے دو یا دو سے زیادہ حصوں کو آپس میں جڑوا جاتا ہے۔ اس کی دو اقسام ہوتی ہیں۔  
 1. مستقل فاسٹرز  
 2. عارضی فاسٹرز

9. Differentiate right and left hand threads.

دائیں اور بائیں ہاتھ کے تھریڈز فرق بیان کریں۔  
 جواب: جب نٹ ٹھوس دار سرت میں گھمائے سے ٹائٹ ہو تا تو اس کو دائیں ہاتھ کی چوڑی کہتے ہیں۔  
 جب نٹ گھومی دھاری مختلف سمت میں گھمائے سے ٹائٹ ہوتا تو اس کو بائیں ہاتھ کی چوڑی کہتے ہیں۔

10. Describe any two locking devices.

کوئی دو لاکنگ ڈیوائس بیان کریں۔  
 جواب: سکرنگ واشر: لاکنگ کے اس طریقہ میں سکرنگ یا ڈبلی کو انکڑ واشر کوٹ کے پچھے رکھ کر ٹائٹ کر دیا جاتا ہے جس سے کافی دباؤ اور مزاحمت پیدا ہو جاتی ہے اور وٹھریڈ کو مضبوطی سے پکڑ لیتا ہے۔  
 کمر وٹس: اس قسم کے نٹ کے پچھے پٹی ہوئی کار اسٹیل میں بنی ہوئی چھری میں فٹ ہو جاتی ہے۔ اور اس کو لاک کرنے کیلئے ایک سیٹ سکر

11. Define a rivet and name its parts.

ریت کی تعریف کریں۔ اور اس کے حصوں کے نام لکھیں۔



جواب: ریت ایک سنڈر ٹیکل راء ہوتی ہے جس کے ایک سرے پر ہیڈ اور دوسرے سرے پر دم ہوتی ہے۔ درمیانی حصہ شینک کہلاتا ہے۔

12. Define caulking process in riveted joints.

روئڈ جوائنٹس میں کالکنگ کے عمل کو بیان کریں۔

13. Define key way and key seat.

جواب: اس طریقہ میں پلیٹ اور ریمٹ کے کناروں کو پرس کر دیا جاتا ہے اس کام کیلئے جوائنٹس استعمال ہوتا ہے اس کی سولائی تقریباً 1/4 میٹر اور چوڑائی 3/8 میٹر ہوتی ہے۔ اس عمل سے جوائنٹ پر دھک ہو جاتا ہے۔

14. Define cotter and name its types.

کیا دے اور کی سیٹ کی تعریف کریں۔

15. Name the parts of a ball bearing.

جواب: ایسی چھری جو ہب میں کافی جاتی ہے تاکہ اس میں Key لگائی جائے۔ اور شافٹ بنائی جانے والی چھری جس میں Key کو نصب کیا جاتا ہے۔ کی سیٹ کہلاتی ہے۔

16. Define shaft coupling.

لکڑی کی تعریف کریں اور اس کی اقسام کے نام لکھیں۔

17. Describe a working drawing.

جواب: اس کی بناؤٹ دو شے جیسی ہوتی ہے اور کر اس سیکشن مستطیل نما ہوتا ہے۔ دور راء کو جوڑنے کیلئے استعمال کی جاتی ہے

18. Define allowance with the help of sketch.

یال ہرنگ کے حصوں کے نام لکھیں۔

19. Explain the following section

Separator / Cage - Inner race - Ball - Outer Race

20. State the types of high friction bearing.

جواب: ٹائٹ کپلنگ کی تعریف کریں۔

21. Explain technical terms used in riveted joints with the help of a neat sketch

جواب: شافٹس: زیادہ سے زیادہ 100 میٹر لمبائی میں تیار کی جاتی ہیں اگر زیادہ لمبائی درکار ہو تو یا دو سے زیادہ شافٹوں کو جڑوا جاتا ہے اس مقصد کیلئے استعمال ہونے والی ڈیوائس کو شافٹ کپلنگ کہتے ہیں۔

22. State the types of high friction bearing.

درنگ ڈرائنگ کو بیان کریں۔

23. Explain technical terms used in riveted joints with the help of a neat sketch

جواب: ایسی ڈرائنگ جس میں ہر پارٹ کو بڑی وضاحت سے بنایا جائے تاکہ اس کو تیار کرنا اور کرکیلئے آسان ہو اور تیار کیلئے تمام معلومات درج ہوں۔ اس کے علاوہ کسی بھی ڈرائنگ کی ضرورت نہ ہو درنگ ڈرائنگ کہلاتی ہے۔

24. State the types of high friction bearing.

خاکہ کی مدد سے ان ڈس کی تعریف کریں۔

جواب: دو اسٹیل ہونے والے پارٹس کے درمیان جو پائنتی مچائش ہوتی ہے اس کو لاءس کہتے ہیں۔



Note: Attempt any two (2) questions.

2 × 8 = 16

2. Explain the following section

مندرجہ ذیل سیکشنز کی وضاحت کریں۔

(i) Revolved section

(ii) Removed section

3. Explain technical terms used in riveted joints with the help of a neat sketch

خاکہ کی مدد سے روئڈ جوائنٹس میں استعمال ہونے والی فنی اصطلاحات کی وضاحت کریں۔

4. State the types of high friction bearing.

باقی فرکشن ہرنگ کی اقسام بیان کریں۔

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**Arthur P. Molella, Anna Karvellas**



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